EASTERN IOWA
COMMUNITY COLLEGES
CLINTON • MUSCATINE • SCOTT

THE *Community's College*

COLLEGE CATALOG

2019-2020

Challenge. Success. Community.

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EASTERN IOWA
COMMUNITY COLLEGES
CLINTON • MUSCATINE • SCOTT

The information in this catalog applies to Clinton, Muscatine and Scott Community Colleges for the 2019-2020 academic years and is current as of the date of publication. The District reserves the right to change any of the programs without prior notice, but will make reasonable efforts to notify students of changes. Please consult the Admissions Office or your advisor before making academic decisions.

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WELCOME TO YOUR COMMUNITY COLLEGE

A MESSAGE FROM THE CHANCELLOR

Hello and thank you for choosing Eastern Iowa Community Colleges, THE Community's College.

Soon after beginning their journey with us, students discover EICC is much more than a college. We are a community, a community of people that cares about the success of each and every student who enters our doors. Your success is our success. We take immense pride and happiness in seeing students attaining the goals they have for their lives.

That's why one in seven area residents continue their education with us every year, why we are the number one choice of area high school graduates and why we are the sixth largest college in the state of Iowa.

Whether you are taking classes at Clinton, Muscatine or Scott Community College, online, or at one of our 14 satellite locations, we welcome you to our family. You are the reason we proudly say Eastern Iowa Community Colleges is THE Community's College!

Don Doucette
Chancellor

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THE *Community's College*

STUDENT INFORMATION

Learn.
Advance.
Community.

Academic Calendar

FALL SEMESTER 2019

Aug. 12	Fall Tuition and Fees Due
Aug. 26	Fall Classes Begin
Aug. 27	Last Day for 100% Tuition Refund/To Adjust Fall First Eight Week Classes
Aug. 30	Fall 2019 Graduation Applications Due
Aug. 30	Last Day for 50% Tuition Refund for First Eight Week Classes
Aug. 30	Last Day for 100% Tuition Refund/To Adjust Fall 16 Week Classes
Sept. 2	Labor Day (College Closed)
Sept. 6	Last Day for 50% Tuition Refund for 16 Week Classes
Sept. 23	12 Week Classes Begin
Sept. 24	Last Day for 100% Refund/to Adjust 12 Week Classes
Sept. 27	District Fall Development Day – College CLOSED
Sept. 30	Last Day for 50% Refund for 12 Week Classes
Oct. 11	Last Day to Withdraw from First Eight Week Classes
Oct. 18	Mid-Term
Oct. 18	First Eight Week Classes End
Oct. 21	Second Eight Week Classes Begin
Oct. 22	Last Day for 100% Tuition Refund/To Adjust Fall Second Eight Week Classes
Oct. 25	Last Day for 50% Tuition Refund for Second Eight Week Classes
Oct. 25	District Faculty Assessment Day (afternoon only)
Nov. 8	District Faculty Assessment Day (afternoon only)
Nov. 26	Last Day to Withdraw from 16 Week Classes
Nov. 27 – 30	Thanksgiving – College CLOSED
Dec. 11	Last Day to Withdraw from Second Eight & 12 Week Classes
Dec. 13 – 17	Final Exams
Dec. 18	Fall Term Ends
Dec. 18	Grades Due by 12 p.m.

Online Class Dates

16 Weeks:	Aug.19 – Dec. 8, 2019
1st 8 Weeks:	Aug. 19 – Oct. 13, 2019
12 Weeks:	Sept. 16 – Dec. 8, 2019
2nd 8 Weeks:	Oct. 14 – Dec. 8, 2019

WINTERIM 2019-2020

Only Online Classes Offered

4 Weeks:	Dec. 20 ,2019 – Jan. 19, 2020

SPRING SEMESTER 2020

Dec. 24 – Jan. 1	College Closed
Jan. 7	Spring Tuition and Fees Due
Jan. 20	Martin Luther King Day – College CLOSED
Jan. 21	Spring Classes Begin
Jan. 22	Last Day for 100% Tuition Refund/To Adjust First Eight Week Classes
Jan. 27	Spring/Summer 2020 Graduation Applications Due
Jan. 27	Last Day for 50% Tuition Refund for First Eight Week Classes
Jan. 27	Last Day for 100% Tuition Refund/To Adjust Spring 16 Week Classes
Feb. 3	Last Day for 50% Tuition Refund for 16 Week Classes
Feb. 17	12 Week Classes Begin

Feb. 18	Last Day for 100% Tuition Refund/To Adjust 12 Week Classes
Feb. 21	District Spring Symposium – College CLOSED
Feb. 24	Last Day for 50% Tuition Refund for 12 Week Classes
Mar. 6	Last Day to Withdraw from First Eight Week Classes
Mar. 13	Mid-Term
Mar. 13	First Eight Week Classes End
Mar. 16 – 20	Spring Break
Mar. 23	Second Eight Week Classes Begin
Mar. 24	Last Day for 100% Tuition Refund/To Adjust Spring Second Eight Week Classes
Mar. 27	Last Day for 50% Tuition Refund for Second Eight Week Classes
Apr. 7	District Faculty Assessment Day (No Classes)
Apr. 29	Last Day to Withdraw from 16 Week Classes
May 12	Last Day to Withdraw from Second Eight & 12 Week Classes
May 14 – 18	Final Exams
May 15	Commencement–Clinton Community College 6 p.m.
May 18	Commencement–Muscatine Community College 6 p.m.
May 19	Commencement–Scott Community College 6 p.m.
May 19	Spring Term Ends
May 19	Grades Due by 5 p.m.
May 25	Memorial Day – College CLOSED

Online Class Dates

16 Weeks:	Jan. 13 – May 3, 2020
1st 8 Weeks:	Jan. 13 – Mar. 8, 2020
12 Weeks:	Feb. 10 – May 3, 2020
2nd 8 Weeks:	Mar. 9 – May 3, 2020

SUMMER TERM 2020

First Four Week & Eight Week Summer Sessions

May 18	Summer Tuition and Fees Due
June 1	First Four Week & Eight Week Summer Sessions Begin
June 2	Last Day for 100% Tuition Refund/To Adjust Classes to First Four Week & Eight Week Summer Sessions
June 5	Last Day for 50% Tuition Refund for First Four Week & Eight Week Summer Sessions
June 19	Last Day to Withdraw from First Four Week Session
June 26	First Four Week Session Ends
June 29	First Four Week Session Grades Due by 11:59 p.m.
July 3	College CLOSED
July 17	Last Day to Withdraw from Eight Week Session
July 24	Eight Week Session Ends
July 27	Eight Week Session Grades Due by 5 p.m.

Second Four Week Session

June 29	Second Four Week Session Begins
June 30	Last Day for 100% Tuition Refund/To Adjust Second Four Week Classes
July 3	College CLOSED
July 6	Last Day for 50% Tuition Refund for Second Four Week Classes
July 17	Last Day to Withdraw from Second Four Week Classes
July 24	Second Four Week Session Ends
July 27	Second Four Week Session Grades Due by 5 p.m.

Online Class Dates

1st 8 Weeks:	May 26 – July 20, 2020
2nd 8 Weeks:	June 8 – Aug. 2, 2020
4 Weeks:	July 6 – Aug. 2, 2020

MAIN CAMPUSES

Clinton Community College
1000 Lincoln Blvd. · Clinton, IA 52732
1-800-637-0559 · 563-244-7001

Muscatine Community College
152 Colorado St. · Muscatine, IA 52761
1-800-351-4669 · 563-288-6001

Scott Community College
500 Belmont Rd. · Bettendorf, IA 52722
1-800-895-0811 · 563-441-4001

ATTENDANCE SITES

Clinton Community College – Maquoketa Center
501 West Washington St.
Maquoketa, IA 52060
563-652-5000

Clinton Community College Technology Center
1951 Manufacturing Dr.
Clinton, IA 52732
1-800-637-0559
563-244-7010

EICC Administrative Offices
101 West Third St.
Davenport, IA 52801
1-800-462-3255
563-336-3300

John T. Blong Technology Center
8500 Hillandale Rd.
Davenport, IA 52806
1-800-895-0811
563-441-4360

Muscatine Agricultural Learning Center
3200 Lucas St.
Muscatine, IA 52761
563-263-2645

Muscatine Community College – Columbus Junction
1208 Colton St.
Columbus Junction, IA 52737
563-288-6001

Muscatine Community College – West Liberty Center
119 East Third St.
West Liberty, IA 52776

Muscatine Community College – Wilton Center
1215 Cypress St.
Wilton, IA 52778
563-732-2038

Nahant Marsh
4220 Wapello Ave.
Davenport, IA 52802
563-336-3370

Scott Community College – Urban Campus
101 West Third St.
Davenport, IA 52801
1-800-895-0811
563-336-5200

Scott Community College – West Davenport Center
2950 Fairmount St.
Davenport, IA 52804
1-800-895-0811
563-326-5319

**New Student Information
Call Toll Free (from anywhere):
1-888-336-3907**

ADMISSIONS

General Policy

Eastern Iowa Community Colleges (EICC) believe in equal educational opportunities for all qualified individuals, regardless of race, color, creed, sex, marital status, religion, ancestry, national origin, sexual orientation, age, handicap or disability in the educational programs and activities it operates.

Clinton, Muscatine and Scott Community Colleges have an open admission policy, which means that anyone 16 years of age may apply, even without a high school diploma. Admission to the college does not automatically guarantee admission to all programs of study; you will need to meet the specific requirements for your chosen program. The College reserve the right to deny admission, re-admission or re-enrollment to anyone who may pose a risk to the best interests of the college community. The colleges reserve the right to guide your placement in programs and courses based on assessment interviews and past academic experience.

All new students must complete an orientation session prior to registration.

You may take up to six credit hours without providing transcripts from high school or other colleges you have attended, submitting ACT scores or taking entering assessments. But to be officially admitted to a degree or certificate program, you must meet the total admission requirements of the college and the program.

Concurrent Enrollment

You may enroll in classes at more than one of our colleges or at one of our colleges and any other institution. If you are receiving financial aid, you must notify the financial aid officers at all institutions in which you are enrolled.

High School Students

Eligible high school students may be accepted for admission to EICC under Iowa's Senior Year Plus. Approval by your high school is mandatory before you may be accepted under this program.

EICC offers the opportunity for high school students to enroll in credit classes in our College Connections program. High school applicants requesting admission must:

1. Complete an Admission Application.
2. Submit the written approval form signed by the student, a parent/guardian (if student is under 18 years old), and the high school counselor or principal.
3. Submit a High School transcript.
4. Complete entering assessment or submit ACT scores. Course placement will be mandatory based on entering assessment, ACT scores, ALEKS placement, or high school GPA.
5. Meet with EICC advisor/high school counselor prior to registration.

Pre-High School Students- Special Status Admission

EICC will consider the admission of a Pre-High School student to credit classes as long as the student is currently enrolled in public or private schools. Enrollment may be considered as enrichment, but is not intended to substitute for the public or private school experience.

Students may apply to the college for "special status" consideration for admittance.

Completion of all the steps below is necessary before an admission decision is determined and a student who is not at least a freshman in high school is enrolled.

1. Complete an Admission Application.
2. Students must provide a current copy of a signed permission agreement by the appropriate school system and the authorizing parent or guardian. Such documentation must be provided to the Dean of Student Development prior to admission to the College.
3. Prior to admission, an applicant who does not have a high school diploma will be required to demonstrate that they possess specific prerequisite skills by taking entering assessments or submitting ACT scores.
4. The College reserves the right to limit the number of courses and which type of courses a student may take. Additionally the student will be required to meet with a college advisor when selecting courses for registration. "Special Status" admissions must be approved by the Dean of Student Development.

Home School Students - Special Status Admission

EICC will consider the admission of a student to credit classes who is not attending a public or private school, and is currently enrolled as a home school student. Students may apply to the college for "special status" consideration for admittance. Enrollment may be considered as enrichment to the home school program, but is not intended to substitute for the home school experience.

The following policies and procedures will apply to the enrollment of home school students:

1. Students must complete an Admission Application.
2. Students must provide a current copy of a signed home school permission agreement between the appropriate school system and the authorizing parent or guardian. Such documentation must be provided to the Dean of Student Development prior to admission to the College.
3. Prior to admission, applicants who do not have a high school diploma will be required to demonstrate that they possess specific prerequisite skills by taking the entering assessments or submitting ACT scores.
4. The College reserves the right to limit the number of courses and the type of courses a student may take. Additionally the student will be required to meet with a college advisor when selecting courses for registration. "Special Status" admissions must be approved by the Dean of Student Development.

Application Procedures

To apply for admission to Clinton, Muscatine or Scott Community College, you will need to:

1. Submit an application for admission. If you are applying to more than one EICC college, you only need to submit one application.

2. Send official transcripts from any other college you have attended if you have previous college credit. Direct your requests for evaluation of transfer credit to the College Registrar.

3. Provide assessment scores from ACT, high school transcript, or take the assessment required.

Please contact the Admissions Office for more information.

International Student Admissions

In addition to following application procedures, international students will need to supply:

1. Evidence of proficiency in the English language (in the form of Test of English as a Foreign Language, TOEFL; EICC require a score of 500 or better on the paper test, 173 on the CBT, 61 on the IBT).

2. A completed Statement of Financial Support. Forms are available from the Admissions Office.

International students are required to maintain health insurance coverage while enrolled.

Guest International Student Admissions

If you are an international student on an I-20 with another college, you will need to provide the following:

1. A current class schedule from home college.

2. A copy of I-20.

3. A copy of VISA/Passport.

4. An unofficial home school transcript.

Re-enrollment

To be readmitted to Eastern Iowa Community Colleges, you must meet all applicable admission requirements. You may be readmitted to a Career and Technical Education program subject to availability of space in the program and an evaluation of your previous progress.

TRANSFER CREDIT

From Other Colleges to EICC

We accept transfer credit from colleges and universities accredited by the Higher Learning Commission or its regional counterparts. Credit for equivalent courses will be accepted to satisfy specific course requirements for graduation. The transfer credit you receive may vary depending on the academic program you choose, and college registrars will decide on elective credit or course substitutions on an individual basis. Transfer credit will be recorded on your EICC transcript after you have requested a transcript evaluation. Transfer grades are not used in your EICC grade point average.

From Career and Technical to Arts and Sciences Programs

If you earn credit in career and technical courses at EICC or other accredited institutions, a maximum of 16 hours of that credit may be accepted as elective credit for an Arts and Sciences degree. See the College Registrar for complete details.

We reserve the right to refuse credit earned more than 10 years before your proposed program completion date. All credit you earn at one of our colleges will transfer to another EICC college, with the limitations outlined above.

Admission on Restricted Status

If you have been dismissed from another institution or were not in good standing when you left, you still may be admitted to Eastern Iowa Community Colleges on a "restricted status." The College may limit your class load and course selection if you want to enroll for more than six credits while you are on "restricted status." We may also require supplemental assessment, counseling and other forms of assistance to help promote your academic success.

SPECIAL STUDENT ADMISSION

Veterans and Military Personnel

We are a Servicemembers Opportunity College (SOC) and participate in the Concurrent Admissions Program (ConAP). This program allows enlistees to enroll in college at the same time they are serving in the military.

Eastern Iowa Community Colleges have been approved and listed with the Department of Defense Memorandum of Understanding and the President's Executive Order of the 'Principles of Excellence' as in compliance with the guidelines of best practices to support our Military and Veteran Students and their family members.

We work closely with Education Service Officers from all five branches for active-duty, reservists, and Iowa National Guard members with their state and federal tuition assistance. Our certificate and degree programs are listed in the GOARMYED website.

EICC is named as a CHAMPS (Certified Higher Academic Military Partner School) by the Iowa Home-based initiative signed by Governor Branstad on November 12, 2013.

Our Career and Technical Education certificate and degree programs are listed with the Service Member's Opportunity College in partnership with the DOD MOU to recruit students into the high-demand jobs per the U.S. Department of Labor.

All of our programs are approved by the Iowa Department of Education for veterans benefits for students eligible under the GI and Post 9/11 Bills. If you are a veteran of the Armed Forces, National Guard or Reserve, contact the VA Certifying Official early in the application process to certify your status and benefits. If you have earned credit through civilian or military education, the College Registrar may evaluate that credit for transfer evaluation.

Gold Star family members and spouses/children of Veterans who are 100% disabled due to service connected disabilities are entitled to the Dependent's Education Assistance program. In addition, there are other financial opportunities for all Veterans/Military and their family members at your campus and in the community.

To receive educational assistance from the Veterans Administration, you must meet "pursuit of education and academic standards" established by the VA and college policy. You are responsible for knowing and following policies that apply to you as a veteran. For information about these policies, including pursuit of education, satisfactory progress, verification, benefit and to answer other questions about veteran students, see your VA Certifying Official.

Residency Status for Military Personnel and Veterans

Active duty military personnel and military service veterans as well as their spouses and dependent children are considered to be Iowa residents for admission, tuition and fee purposes at EICC.

Senior Citizens

If you are 62 years or older and live in our service area, you may register for on-campus credit courses on a space available basis at a cost of $10.00 per credit hour plus fees. Special registration for seniors is the first five days of classes.

Guest Students

Guest students are students who are attending one of the EICC Colleges on a part-time basis with the intention of transferring the course immediately to another college considered to be their home institution. If you are a guest student, please work with an academic advisor from your home school on appropriate placement and their acceptance of the planned EICC courses.

Audit or CEU

You may choose to audit a credit course if space is available in the class. To audit a class, register as usual; tuition and fees will be the same as if you were taking the course for credit. You won't receive credit for the course, but your transcript will reflect the audit with an "N" grade. Participation in class activities is expected, but you won't have to take exams. Some credit courses may also be taken for non-credit Continuing Education Units (CEUs). You cannot receive financial aid for a course you chose to audit.

REGISTRATION

New Student Bridge Orientation

New students are required to complete a Bridge Orientation. During the orientation, students will be provided an orientation to the College and available services.

Registration Procedures

To enroll in classes you must meet with an advisor for your first two semesters and complete the appropriate forms. After successful completion of two semesters, you may log on to www.eicc.edu and follow the link to enroll online. Students may enroll in a maximum of six hours before meeting with an advisor.

Early Registration

Early registration allows you to choose courses and establish your schedule for the next term if your tuition and fees are paid by the designated due date. For some programs, a non-refundable fee (which will be applied toward tuition) may be required when you register or are admitted.

CHANGING YOUR REGISTRATION

Adding a Class

To add a class, you may meet with an advisor and complete the appropriate form, or log on to EICConnect and follow the ebridge link to add the class.

Dropping a Class

To drop a class you may meet with an advisor and complete the appropriate form, or log on to EICConnect and follow the ebridge link to drop the class. You may drop a class with a grade of "W" until two weeks prior to the first day of final examinations for a full semester class. You have one week prior to the end of the term during the summer or short term sessions. Failure to follow the above procedures will result in your earned grade for the course.

Withdrawing from College

You may meet with an advisor and complete the appropriate form, or log on to EICConnect and follow the ebridge link to withdraw from all of your classes. NOTE: Check the Tuition and Fees Refund policy for a possible refund.

Course Repeats

Courses must be taken within EICC to be considered repeat courses. The grade and credits earned in the most recent course repeat will be used to calculate your cumulative grade point average and will be applied to your degree or program requirements. Once a degree is awarded, if you choose to repeat a course both grades will be calculated in your GPA.

Academic Load

A full-time academic load is 12-18 credit hours per term. You are considered a part-time student if you take 11 or fewer credit hours.

If you'd like to take more than 18 credits in the fall or spring terms or more than 12 credits during the summer term, you will need permission from the Dean of Student Development. Usually the Dean will grant permission only to students who maintain a 3.0 cumulative GPA and plan to carry no more than 21 credit hours. If you are enrolled in a program that requires more than 18 credit hours per term, you may register without special permission.

Class Attendance

Faculty members determine attendance requirements for their classes. As a student, you are responsible for knowing and following class attendance guidelines.

Graduation

Applications for graduation are due by the fifth day of classes of the semester in which you plan to graduate. For summer graduates, the applications are due by the fifth day of classes of the spring semester.

You are responsible for making sure that all of your financial obligations to the college are paid before you may graduate.

EDUCATIONAL COSTS

We work hard to provide the highest quality instruction at the lowest possible cost. Costs at EICC will vary based on your state of residence, fees, books and materials for your program. All costs are subject to change. Please contact the Business Office for a current tuition and fee schedule.

Tuition

Tuition is based on residence and class load. For non-Iowa residents, tuition is 1.5 times the rate for Iowa residents.

Illinois Border County Tuition

Beginning with the FY2016 acceptance year, the tuition rate for Illinois residents residing in Carroll, Henry, Mercer, Rock Island and Whiteside counties will be the same rate as the tuition rate for online courses.

Books and Supplies

Your costs will vary depending on the program you choose, but you should expect books and supplies to be a significant expense. Career and Technical Education programs may also require tools or uniforms. Contact the Barnes and Noble bookstore for more detailed information.

Transcript Recording Fees

The College charges $9 per credit hour to record credit you have earned through tests and other types of non-traditional credit. For example, if you take a CLEP test and earn three hours of credit in English, you would pay $27 to have that credit recorded on your transcript.

Tuition Refunds

If you withdraw from the College, be sure to complete the necessary withdrawal forms to make sure you do not jeopardize your academic standing. If you are eligible for a refund, tuition dollars will be refunded according to the following scale:

- Courses that are 16 weeks in length:

    100%   Prior to the fifth day of classes

    50%   Prior to the end of the tenth day of classes

- Summer or shorter term courses:

    100%   During the first two days of the session

    50%   During the third through fifth days of the session

See the Registration Center for the specific course dates.

If classes are canceled by the college, tuition and fees will be refunded.

The same refund policy applies to official withdrawal from individual courses. Your refund will be the appropriate percentage between the tuition for your new load and the tuition for your original load. If you are officially enrolled and receiving Title IV funds (federal financial aid such as SEOG, Pell Grant, Federal loans), your refund will be determined using the Return of Title IV Funds calculation. Contact the Financial Aid Office for details. Contact the Business Office or College Registrar for refund deadlines for short-term programs.

RESIDENCY

You are considered an Iowa resident for tuition purposes if your legal residence is in Iowa and you have lived in the state for no less than 90 days prior to the start of the term for which residency is being requested. You are responsible for proving your in-state status. If you would like to apply to be reclassified from non-resident to resident status, fill out a Request for Residency Status form in the College Registrar's office and provide the following support documents: rent receipts, or evidence of ownership of property in Iowa; and two of the following documents: Iowa income tax return, Iowa vehicle registration, Iowa driver's license, Iowa voter registration card. The request for residency status must be filed prior to the end of the first week of classes during the fall and spring terms, and by the second day of the summer and short class sessions.

If you are reclassified as a resident, that reclassification becomes effective immediately and does not cover any term for which you previously have been enrolled. International students cannot establish residency while studying in this country on a temporary student visa. Contact the Admissions Office or College Registrar for more information.

STUDENT HEALTH INSURANCE

We encourage you to have health/accident insurance,while enrolled at EICC. Please visit www.healthcare.gov for available insurance coverage.

FINANCIAL AID

Your college education is an investment in your future. We are pleased to provide financial assistance to students who might otherwise not be able to attend college. If you are in need of financial assistance to attend school, please contact the Financial Aid Office. No student should ever withdraw from school for financial reasons without first talking to our financial aid staff to see if help is available.

Financial aid programs are constantly being reviewed by the state and federal government. The outline below is meant to be a general overview. Please contact the Financial Aid Office for more information.

Financial Aid General Policy

If you previously attended or are currently attending another institution, you must notify the Financial Aid Office. You cannot receive financial aid from two institutions during the same semester.

For specific information about Satisfactory Academic Progress or other financial aid policies, see the current Student Handbook or contact the Financial Aid Office.

To apply for federal and state financial aid, all students must complete a Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov.

Federal Assistance

Federal Pell Grant – a federally-funded program based on financial need and enrollment status. Students must not have a Bachelor's or higher degree.

Federal Supplemental Educational Opportunity Grant – a federally-funded program administered by the College; priority must be given to Pell Grant recipients with the lowest family contribution. Students must not have a Bachelor's or higher degree. Funding is limited.

Federal College Work Study – federally-funded part-time employment opportunities that allow students to work at an EICC site or at designated off campus locations. Students working at off campus locations will have the opportunity to work in community service positions or at elementary schools through the America Reads/America Counts programs. The amount students may earn is based on their financial need. Funding is limited.

William D. Ford Direct Loan Program – long term, low interest loans available to students and parents. These are also known as Federal Direct Stafford Loans (Subsidized and Unsubsidized). In addition to completing the FAFSA, you must complete a Master Promissory Note (MPN), a Loan Authorization Form (LAF), and an Entrance Counseling Form. Links to these applications are available online at www.eicc.edu/staffordloanapp. Federal Direct Parent Loans for undergraduate students (PLUS) are available for parents of dependent students.

State Assistance

Iowa Vocational – Technical Tuition Grant – a state-funded grant for Iowa residents enrolled in Iowa community college Career and Technical Education programs who show financial need and meet the state's priority deadline.

Iowa Skilled Workforce Shortage Tuition Grant (Kibbie Grant) – a state-funded program for Iowa residents enrolled in specified Career and Technical Education programs who show financial need and meet the state's priority deadline.

All Iowa Opportunity Foster Care Grant – grants available to Iowa residents who resided in a foster care living arrangement as defined by the Iowa College Student Aid Commission. Students must file a FAFSA application and the Iowa Financial Aid application by the state's priority deadlines.

Education and Training Voucher (ETV) Grant – grants available to Iowa residents aging out of the Iowa foster care system. Students must file a FAFSA application and the Iowa Financial Aid application by the state's priority deadlines.

Veterans Educational Benefits – financial assistance for veterans of the Armed Forces, National Guard or Reserves, or widows, widowers and children of disabled or deceased veterans. Contact your College Registrar for VA certifying official or eligibility and application information.

Iowa National Guard Tuition Assistance – financial assistance for eligible members of the Iowa National Guard. Contact your Commanding Officer for an application, eligibility, and deadline requirements.

GEAR UP Iowa Scholarship – The GEAR UP Iowa Scholarship provides awards of up to $2,600 per year to students who are part of the GEAR UP Iowa state-wide cohort.

EICC Programs

EICC Tuition Grant – funded by EICC, this grant assists students who meet certain criteria. Funding is limited.

College Foundation Scholarships – each college provides scholarships from local resources. Contact the Financial Aid or Foundation Office for information.

Other Forms of Assistance – many employers or area organizations (civic, ethnic, religious, etc.) offer financial assistance. Contact the organization or your employer for more information.

State-based Student Complaints Process

The Iowa College Student Aid Commission (the Commission) has overarching, statutory authority under Iowa Code Chapter 261B to determine the registration (i.e., licensure or authorization) status of postsecondary educational institutions that operate at a physical location within the State of Iowa or that offer distance education courses and programs to Iowa residents. In addition, the Commission administers provisions of Iowa's student consumer protection laws in Iowa Code Section 714, 18, 714.19, 714.23, 714.24 that address financial responsibility for certain educational institutions, and, for proprietary institutions, a tuition refund policy for withdrawn students.

Persons who have questions about a postsecondary educational institution's compliance with Iowa Code Chapter 261B, and Iowa Code Sections 714.18, 714.19, 714.23, and 714.24 should contact:

J. Carolyn Small
Postsecondary Registration Administrator
Iowa College Student Aid Commission
515-725-3413
Carolyn.small@iowa.gov

In addition, the Iowa College Student Aid Commission maintains a Constituent Request for Review process that meets the conditions of federal regulations in 34 CFR 600.9(a)(1). These regulations state that a postsecondary educational institution located in a State is legally authorized by the State, in part, if the State has a process to review and appropriately act on complaints concerning the institution. The Commission accepts complaints from any student attending any postsecondary educational institution located in Iowa, and from any Iowa resident attending a postsecondary educational institution located in any other State.

A student may initiate the Constituent Request for Review process at http://www.iowacollegeaid.gov/constituentrequest.asp.

ASSESSMENT OF GENERAL EDUCATION AT EICC

Assessment the systematic collection, review, and use of information about educational programs undertaken for the purpose of improving student learning and development (Banta and Paloma). The critical value of assessment is that faculty members have data or concrete information that can be used to make informed, strategic decisions to improve student learning.

In October of 2017, at the request of the faculty, Eastern Iowa Community Colleges' adopted the Liberal Education and America's Promise (LEAP) Essential Learning Outcomes (referred to as the LEAP goals) from the American Association of Colleges and University (AAC&U) as the basis for EICC's General Education Goals to be assessed.

The LEAP goals were developed through a multiyear dialogue with hundreds of colleges and universities about needed goals for student learning; analysis of a long series of recommendations and reports from the business community; and analysis of the accreditation requirements for engineering, business, nursing, and teacher education. For further information and to see a complete list of the LEAP Essential Learning Outcomes, see www.aacu.org/leap.

After curriculum mapping activities and several discussions with faculty, administration, and district councils, it was determined that EICC would focus on Teamwork, Intercultural Knowledge and Competence, Problem Solving, and Critical Thinking for the current four-year assessment cycle, with the possibility of adding more during the next cycle.

Teamwork was chosen because it is the top local and national employer-identified employability skill. Several diversity initiatives at EICC were the reason why Intercultural Knowledge and Competence was chosen. Problem Solving and Critical Thinking was chosen due to the high number of faculty who teach and assess these goals in their courses.

In addition to these four LEAP goals, it was also decided that specific disciplines would each develop one discipline-specific learning outcome during Arts & Science program review process. Link to website.

The chosen goals are assessed according to the EICC Assessment Plan. Student work will be sampled regularly for EICC faculty review for the attainment of the goals. Results will be used to make changes in curriculum and instructional approaches to improve the achievement levels of the goals.

In addition to General Education goals, course-level goals can be found in each course's Course Development Model (CDM). All faculty base their course plans on the objectives articulated in the CDMs. The CDMs are written by EICC faculty within the discipline for the course, and approved through course approval processes at EICC. All CDMs are reviewed and updated by discipline faculty during the Arts & Science and CTE program review process every four years.

The LEAP Goals that EICC will be assessing over the next four years:

As a result of their college studies, all EICC students should prepare for 21st century challenges by gaining:

Knowledge of Human Cultures and the Physical and Natural World
· Through study in:
  · Natural Sciences
  · Social Sciences
  · Mathematics
  · Arts and Humanities
  · Education
  · Cultural/Historical Perspectives
  · Computer Skills
  · Communications

Focused by engagement with big questions, both contemporary and enduring

Intellectual and Practical Skills, Including
· Critical thinking
· Teamwork and problem solving

Practiced extensively, across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance

Personal and Social Responsibility, Including
· Intercultural knowledge and competence

Anchored through active involvement with diverse communities and real-world challenges

GRADUATION AND GENERAL EDUCATION REQUIREMENTS

At Clinton, Muscatine and Scott Community Colleges, you can earn a degree, diploma or certificate. The Associate of Arts and Associate of Science degrees are designed for transfer to four-year colleges and universities, while the Associate of Applied Science degree will prepare you to enter a specific occupational field.

Associate of Arts (AA) Degree

To earn an Associate of Arts degree, you must complete at least 62 credit hours with a 2.0 GPA or better. The minimum general education requirements for the Associate of Arts degree are listed below.

Area	Credits
Communications	
Written Composition	6.00
Speech	3.00
Arts and Humanities	
Literature	3.00
Humanities	3.00
Arts	3.00
Cultural/Historical Perspective	
Western Perspectives	3.00
Intercultural Perspectives	3.00
Social Science	
Economics or Political Science	3.00
Psychology or Sociology	3.00
Natural Sciences	
Life Sciences	4.00
Physical Sciences	3.00–4.00
Mathematics	3.00
Computer Skills (1)	3.00
Concentration Courses and Electives (2, 3, 4)	18.00–19.00
Total	**62.00**

Courses that satisfy specific requirements for AA concentration areas are listed on pages 46–47.

1. You may choose to demonstrate proficiency in computer skills.

2. A maximum of 16 credit hours of Career and Technical Education credit may be accepted as electives.

3. A maximum of four credit hours of Student Development (SDV) courses may be counted toward the AA degree.

4. All course work for the AA degree must be numbered at the 100 level or higher.

Associate of Science (AS) Degree

To earn an Associate of Science degree, you must complete at least 62 credit hours with a 2.0 GPA or better. The minimum general education requirements for the Associate of Science degree are listed below.

Area	Credits
Communications	
Written Composition	6.00
Speech	3.00
Arts and Humanities	6.00
Literature	
Humanities	
Arts	
Cultural/Historical Perspective	3.00
Western Perspectives	
Intercultural Perspectives	
Social Science	3.00
Economics or Political Science	
Psychology or Sociology	
Mathematics & Natural Sciences	24.00
Life Sciences	
Physical Sciences	
Mathematics	
Computer Skills	
Demonstrate Proficiency	
Concentration Courses and Electives (1, 2, 3)	17.00
Total	**62.00**

Courses that satisfy requirements for specific AS concentration areas are listed on pages 48–49.

1. A maximum of 16 credit hours of Career and Technical Education credit may be accepted as electives.

2. A maximum of four credit hours of Student Development (SDV) courses may be counted toward the AS degree.

3. All course work for the AS degree must be numbered at the 100 level or higher.

Associate of Science in Pre-Engineering (AS) Degree

The Associate of Science in Pre-Engineering degree is offered to address the unique needs of students who plan to transfer to a four-year university or college and pursue a B.S. in engineering. To earn this degree, you must complete at least 62 credit hours with a 2.0 GPA or better. The minimum general education requirements for the Associate of Science in Pre-Engineering degree is listed below.

Area	Credits
Communications	
Written Composition	6.00
Speech	3.00
Arts and Humanities	3.00
Literature	
Humanities	
Arts	
Cultural/Historical Perspectives	3.00
Western Perspectives	
Intercultural Perspectives	
Social Science	3.00
Economics or Political Science	
Psychology or Sociology	
Natural Sciences	15.00
Mathematics	16.00
Computer Skills	3.00
Electives (1, 2, 3)	10.00–13.00
Total	**62.00**

Courses that satisfy specific requirements for AS in Pre-Engineering concentration areas are listed on page 50.

1. A maximum of 11 credit hours of Career and Technical Education credit may be accepted as electives.

2. A maximum of four credit hours of Student Development (SDV) courses may be counted toward the Pre-Engineering AS degree.

3. All course work for the Pre-Engineering AS degree must be numbered at the 100 level or higher.

Associate of Applied Science (AAS) Degree

To earn an Associate of Applied Science (AAS) degree, you must complete the general educational and technical competency requirements of a two-year technical program with a GPA of 2.0 or better in your award major. These programs are designed to prepare you for skilled employment in your chosen area; they are not designed for transfer to a four-year college or university. AAS degree requirements include a minimum of 15 credit hours of general education, including one course each in Communications, Humanities or Social Sciences, and Math or Science. AAS degrees vary by program in the number of credit hours required for completion, and range between 62–86 total credits. All course work must be at the 100 level or above. See specific requirements for AAS program later in the catalog.

Diploma Programs

Diplomas are awarded if you successfully complete a program with fewer than 49 but more than 31 credit hours, and maintain a GPA of 2.0 or better in your award major. These programs will prepare you for entry-level employment in a specific field. Diploma programs emphasize technical skills and related general education courses that will give you the skills necessary to succeed in the working world.

Minimum general education requirements for a diploma include three credit hours in Communications, Social Sciences, Humanities, Math or Science. All course work must be at the 100 level or above. See specific requirements listed for diploma programs later in this catalog.

Certificate Programs

When you successfully complete a designated program with fewer than 32 credit hours with a GPA of 2.0 or better in your award major, you will earn a certificate. The certificate means you have attained the minimum competencies in your chosen area. All course work must be at the 100 level or above. See specific requirements listed for certificate program later in this catalog.

ACADEMIC REQUIREMENTS

Academic Standing

At the end of each term your instructors will assign grades to assess your performance and encourage you to do your best work. The College will calculate term and cumulative grade point averages (GPA) and record those on a grade record you may access online. GPA is determined using this formula:

A	4.00 x number of credit hours of	A credit received
A–	3.67 x number of credit hours of	A– credit received
B+	3.33 x number of credit hours of	B+ credit received
B	3.00 x number of credit hours of	B credit received
B–	2.67 x number of credit hours of	B– credit received
C+	2.33 x number of credit hours of	C+ credit received
C	2.00 x number of credit hours of	C credit received
C–	1.67 x number of credit hours of	C– credit received
D+	1.33 x number of credit hours of	D+ credit received
D	1.00 x number of credit hours of	D credit received
D–	0.67 x number of credit hours of	D– credit received
F	0.00 x number of credit hours of	F credit received

To determine the GPA, divide your total grade points by the number of your total credit hours. A cumulative GPA of 2.0 in your award major is required to earn any degree, diploma or certificate.

If you receive Veterans Educational Benefits or other types of financial aid, you must meet any academic progress and attendance requirements determined by college policy and the agency that has granted your financial assistance.

Grading and Transcript Designations

Our grades and transcript designations conform to the Iowa Department of Education's Common Grading Symbols and Definitions Agreement.

Marking System

A — Excellent Performance

B — Above Average Performance

C — Average Performance

D — Below Average Performance

F — Failure. No credit granted or grade points are awarded, but the credits attempted are figured into GPA as zeros.

"F" grades are given for poor performance, poor attendance, failure to officially withdraw or failure to meet makeup requirements for an Incomplete grade.

I — Failure to complete required work due to justifiable extenuating circumstances

An "I" grade means you have asked for and received permission from your instructor to complete the required course work no later than mid-term of the following academic term, not including summer sessions. Failure to complete the work in that time frame will result in an "F" grade.

W — Official withdrawal from a course. To qualify for a "W" grade, you must complete the withdrawal form two weeks prior to the first day of final exams. Contact the College Registrar for summer and short term withdrawal dates. If you leave a course without officially withdrawing, you will receive an "F" or the grade that reflects your course performance.

N — Audit. Audit is a "no credit/no pass" grade that you can use for several purposes: you may choose it during registration instead of a course grade; or in place of withdrawal with instructor permission if you are already enrolled in a course; OR the college may award the "N" grade to students in developmental courses who do not make sufficient progress to move into credit courses. When you audit a course, you and your instructor will agree on your attendance and participation in class activities. The Audit option is offered only on a space-available basis. You must complete the audit form by the end of the 10th day prior to the first day of final exams.

P — Given when you pass a course and earn credit without grade points being awarded. Courses transferred into EICC with a "P" grade are considered to be credit without being calculated into your GPA.

R — Course has been repeated.

O — Fresh Start Grade

Prerequisite Course Grade Recommendation

Faculty members recommend a minimum grade of C in all prerequisite courses. Please consult your advisor or department chair if you receive a D in a prerequisite course.

Satisfactory Progress

We encourage you to maintain satisfactory academic progress while a student at EICC. The minimum satisfactory academic progress is a cumulative grade point average of 2.0. At any point in your career that your cumulative grade point average falls below 2.0, you may be placed on academic probation. An academic advisor will help you develop a plan of action to improve your grades. That plan may include a restriction on the number of credit hours you may take, and additional assistance and other developmental requirements.

If you are an official full-time student after the add-drop period, you must successfully complete at least eight credit hours of credit. If you are enrolled for six to 11 credit hours, you will need to successfully complete at least six credit hours. You may be placed on academic probation if you do not meet these requirements.

When the requirements of your program are higher than the minimum standards listed here, your program requirements will apply. It is your responsibility to know and follow your program requirements.

If at the end of your probationary term you are unable to meet the minimum standards, we may recommend additional corrective steps or academic suspension. After a one-term absence for academic suspension (not including the summer session), you may be re-admitted on probation.

Types of Credit

Any credit you receive in an Arts and Sciences course with a course number of 100 or above is considered transferable. Credit received in Career and Technical Education courses with course numbers 100 or above is generally not transferable, although some four-year colleges and universities may choose to award credit. Credit from courses numbered below 100 is generally not transferable, nor is credit for continuing education contact hours or Continuing Education Units (CEUs).

Credit Transfer

EICC is accredited by the Higher Learning Commission of the North Central Association, so your Arts and Sciences credits from here will normally transfer to any regionally accredited U.S. institution. Your AA degree from an EICC college will satisfy the general education requirements at many four-year institutions.

Articulation

We have articulation agreements with local high schools and regional four-year colleges and universities so that you are assured of being prepared to transfer successfully. If you are planning to transfer to a four-year institution, talk to your academic advisor and the transfer admissions office of the college you plan to attend to make sure you meet all the requirements for transferring your course work from EICC.

Transfer Guarantee

Our Transfer Guarantee is a written contract completed at the beginning of your academic career at Clinton, Muscatine or Scott Community College. It outlines your plan of transfer and provides the requirements so that if any of the credits in your Associate of Arts degree do not transfer to the six participating colleges and universities, you will be able to retake coursework at no cost at EICC. These institutions are Iowa State University, Iowa Wesleyan University, St. Ambrose University, University of Iowa, University of Northern Iowa, and Western Illinois University. Talk to the Dean of Student Development for more details, or go to EICConnect.

Joint Admission

By applying for joint admission, you may be admitted to both EICC and a transfer institution at the same time. Advisors from both colleges will help you plan your course work to ensure a smooth transfer process. EICC has signed Joint Admission Agreements or Admission Partnership Programs with the University of Iowa, Iowa State University, St. Ambrose University, Palmer College of Chiropractic, University of Northern Iowa, Clark University, Western Illinois University and Trinity College of Nursing and Health Sciences.

Class Standing

Freshmen are students who have completed less than 30 credit hours; students with 30 or more credits are classified as sophomores.

Academic Honors

Each term we recognize students who have achieved outstanding academic success. If you complete six or more credit hours during a term with a 4.0 GPA, you will be named to the President's List. The Dean's List includes students with a 3.5 or better GPA for six or more credit hours during a term. Incomplete or blank grades at the time lists are calculated will disqualify you from the list.

Honor Graduates

Honor Graduates are those with a final cumulative GPA of 3.5 or better for all course work completed toward graduation.

Incomplete Grades

Incomplete grades (I) are given for work that is not completed during an academic term due to justifiable extenuating circumstances. To qualify for an "I" grade, you will need to sign an Incomplete Contract Agreement with the class instructor and submit it to the College Registrar. Work must be completed and turned in to the instructor no later than mid-term of the following semester (not including summer sessions). Courses not completed by that time will receive an "F" grade.

Withdrawal from College

If you need to withdraw from the college for any reason, please see the Student Services office for the appropriate paperwork. Deadlines and conditions for withdrawal are the same as those for withdrawal from an individual course (see Addition of and Withdrawal from Courses section).

Be sure to follow the proper procedures when withdrawing or you may forfeit your rights to any refund to which you may be entitled; and may receive grades of "F" in your courses.

Catalog Program Requirements

You may choose to graduate under the requirements of a prior EICC catalog as long as you were enrolled under that catalog and have been continuously enrolled in the College. Continuous enrollment means you have earned credit during an academic year (each semester). When program requirements change, course substitutions may be considered for the student at the discretion of the academic dean. It is best to graduate under the most current catalog requirements, especially if you plan to transfer to a four-year college or if you are enrolled in a program requiring specialized accreditation.

Program Discontinuation

If EICC determines a Career and Technical Education Program (AAS award) is to be discontinued, it will be announced prior to the ending of the program. Students enrolled in the program will have one year from the time of the announcement to complete program graduation requirements.

Fresh Start

If you are a student returning to EICC to pursue a degree or diploma after an absence of three or more consecutive years, you may request permission to remove one or more entire academic terms from future degree and GPA considerations. Contact the Dean of Student Development for additional information.

Graduation GPA and Residency Requirements

You are considered a candidate for graduation when you have completed specific course requirements for an AA or AS degree with a minimum cumulative GPA of 2.0 or better. You are considered a candidate for graduation when you have completed specific course requirements for an AAS degree, diploma or certificate with a minimum GPA of 2.0 in the award major. Sixteen of your final 32 credit hours or half of the final 50 percent of credit hours – whichever is the lesser number – must be taken at EICC.

Credit for Prior Learning

You may have gained knowledge from work, military or life experiences that could be considered for college credit. Contact the college's Academic Dean for more information concerning Credit for Prior Learning.

Online Options

Since 2001, EICC has been offering affordable, quality online education through a supporting, innovative partnership with Iowa Community Colleges Online Consortium (ICCOC). Through ICCOC EICC offers courses, degrees, certificates, and diplomas online.

Many of EICC's programs have courses that can be taken online, and several of EICC's Career and Technical programs are completely online: Cancer Information Management, Health Information Technology, and Environmental Health and Safety.

To register for an online class, a student must first apply for admission at EICC. The schedule of online courses is on the EICC website. An academic advisor can answer any questions about the online courses being offered, as well as what courses may be taken to complete a degree or program. The academic advisor can also assist students in their enrollment in online courses and programs.

Alternative Delivery

EICC offers many options for course delivery. Visit www.eicc.edu for information about these options.

Our colleges also offer opportunities for study abroad. Please contact the Student Development Department or your advisor for more information.

Student Handbook

For additional information about policies, procedures and services at Clinton, Muscatine and Scott Community Colleges, please refer to the online Student Handbook at www.eicc.edu/studenthandbook.

The Handbook includes information on student rights and responsibilities, student conduct and discipline policies, academic policies and appeal processes, financial aid policies, campus security and more.

Student Learning Assessment

In addition to traditional classroom assessments such as grades, you may be asked to participate in program assessments throughout your college experience. While faculty use classroom assessment to determine an individual student's progress in a course, EICC uses other tools to measure the effectiveness of its programs. You will receive your academic testing results.

You may also be surveyed regarding your satisfaction level with college programs and services. These assessments help the District target areas to improve student services and also ensure the College complies with Iowa and Higher Learning Commission accreditation requirements.

CONFIDENTIALITY OF STUDENT RECORDS

Our faculty and staff use records to meet the needs of individual students and help develop ways to improve programs, services and academic success. Student records are regarded as confidential. EICC will not provide names and addresses to outside agencies for commercial use or any information about academic records without your written consent or under specific guidelines set out in the Family Educational Rights and Privacy Act of 1974.

The College may release the following types of information to the public as the College sees fit, keeping in mind the privacy of the student and the totality of the surrounding circumstances: name, address, telephone listing, email address, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, academic honor rolls, degrees and awards received, full-time/part-time status, most recent previous school or institution attended by the student, and photograph and likeness, artwork, or writing.

Students objecting to the public release of such information must file a written objection with the Registrar's Office within 30 calendar days of the beginning of the term in which they first enroll during that year. It is necessary for students to renew their objection at the beginning of each school year.

Students wishing to review the entire EICC policy on student rights may request the EICC policy from the Dean of Student Development.

Please consult your current online Student Handbook at www.eicc.edu/about-eicc/student-handbook/records.aspx for more detailed information about confidentiality of student records.

ONLINE VOTER REGISTRATION

www.sos.state.ia.us/elections

COLLEGE INFORMATION

EASTERN IOWA
COMMUNITY COLLEGES
CLINTON ◆ MUSCATINE ◆ SCOTT

THE *Community's College*

Growth.
Pride.
Community.

CLINTON COMMUNITY COLLEGE

PAUL B. SHARAR FOUNDATION

The Paul B. Sharar Foundation supports the students, programs, faculty, and staff of Clinton Community College. The 28-member board is responsible for encouraging, receiving, and administering all contributions.

Each year the Sharar Foundation awards scholarships to deserving Clinton Community College students. These scholarships are awarded to recent high school graduates as well as non-traditional-aged students who are returning to college after being away from school for a number of years. All students are urged to apply for scholarships by contacting the Financial Aid office or the Sharar Foundation office.

The Sharar Foundation also places priority on supporting college programs through equipment purchases and funding for staff development. In addition, a Sharar Foundation grant program helps make it possible for faculty and staff to further their own education.

The Paul B. Sharar Foundation office is located on the Clinton campus. For more information, visit the Website at www.eicc.edu/ccc/sharar/index.html

THE COMMUNITY

Clinton is located in the extreme eastern part of Iowa, 157 miles west of Chicago. The picturesque Mississippi River town was originally called New York, but was renamed in 1885 after DeWitt Clinton, a former governor of New York.

Clinton offers many recreational facilities including five beautiful parks, swimming pools, beaches along the river, and nearby lakes. It also has many softball diamonds and tennis courts, a golf course and a modern baseball park. Clinton is home to the Class A professional baseball Clinton Lumber Kings.

The community's public library offers services via two community locations, and the fine arts are well-represented through the Clinton Community Concert Association, the Clinton Symphony Orchestra Association, the Clinton Showboat professional theatre, Gateway Contemporary Ballet, and the Clinton Art Association.

THE COLLEGE

Clinton Community College offers many college transfer programs and Career and Technical Education program options. The College's faculty offer quality, personalized education with a student-instructor ratio of 20 to 1.

Approximately two-thirds of Clinton Community College students are enrolled on a part-time basis. The average age of the student body is 24.

CCC Alumni Association

Clinton Community College maintains a strong Alumni Association. Almost 80 percent of the College's graduates continue to live in Iowa, with an additional ten percent living in nearby Illinois communities such as Fulton, Savanna, Thomson and Morrison.

The Alumni Association is an active supporter of the College and hosts many annual events such as the Student Leader Luncheon and the Outstanding Awards which highlight those that give outstanding support to Clinton Community College. In addition, the Alumni Association supports four different scholarships for Clinton Community College students ranging from $200 to a full-time Alumni Honor Scholarship.

To become a member of the CCC Alumni Association, or for more information, visit the Website at www.eicc.edu/ccc/sharar/alumni/index.html.

STUDENT ACTIVITIES

Chi Alpha Campus Fellowship

Chi Alpha is an opportunity for students to gather, share stories, pray about problems, and discuss biblical issues and their relevancy to contemporary life. Weekly meetings are held during the academic year and are open to the College community.

Dance Club

The Dance Club includes learning basic styles of dance, advanced dance, and choreographing new dances with your fellow peers at CCC. We currently meet twice a week and are looking for new ways to increase our numbers. We have Dance Recitals once a semester and fundraisers occasionally. Future plans include community dance workshops and possibly competitions if we see fit.

Gaming Club

The Gaming Club offers students a chance to play board , card, roleplaying, and video games with their fellow students. The club hosts open gaming nights twice a month with special events throughout the semester. If you are interested in tabletop gaming or roleplaying games such as Dungeons and Dragons, the Gaming Club is perfect for you. Membership is open to all students. Feel free to bring non-student friends to our events.

Graphic Arts Club

The mission of the Graphic Arts Club is to promote the printing industry and the College to other students and the public. Membership is open to all students willing to work as a team. Activities include speaker presentations and field trips.

Intramural Athletics

There are a wide variety of intramural sports offered to Clinton Community College students. With student involvement, a variety of intramurals are offered such as board game tournaments, card tournaments, and bowling. For more information about intramurals and to sign up, see the Student Engagement Coordinator.

Music Club

If you love music, can play an instrument, or music has a special place in your heart, Music Club may be the club for you. The Music Club is looking to broaden their horizons. All ideas are welcome.

Nursing Club

The Nursing Club offers pre-nursing, freshman, and sophomore nursing program students an opportunity to interact and work together in a group setting. Membership is open to all pre-nursing and nursing students. Members organize group meetings for nursing program students, attend nursing conferences, workshops, and participate in field trips related to nursing and health care.

Phi Theta Kappa

PTK is an honorary fraternity for the recognition of academic achievement. Membership is earned by qualifications, honor and service. PTK recognizes and encourages scholarships for community college students and stimulates interest in continuing academic excellence.

River Talk

River Talk is a student political discussion group. It is open to students of all political persuasions and opinions. We meet bi-weekly and record a political-style talk show about politics and current events.

Students Networking and Programming Club (SNAP)

SNAP fosters a better understanding and knowledge of computer networks and the networker's role. The club actively participates in field trips, fundraising projects, conferences, and brings guest speakers to campus.

Student Government/Senate

The Senate plans, coordinates and directs a variety of events and activities throughout the year. This active organization provides students with a positive educational and fun atmosphere on and off campus. Senators attend workshops and conferences throughout the state promoting Clinton Community College and gain valuable leadership and networking opportunities. Be sure to watch for your monthly calendar that highlights all the upcoming activities and events on campus.

Student Veterans of America

The Student Veterans chapter is the "Boots on the Ground" that helps veterans reintegrate into campus life and succeed. Student Veterans of America is the nation's largest coalition of SVO's united under a shared vision that all student veterans will succeed in post-secondary programs and contribute to society in meaningful ways. Membership is open to all military and veteran students and their families.

Student Newspaper

The Gallery is a monthly newspaper edited and written by students. It reports and provides commentary on campus life and activities. Membership is open to all students, especially those who are interested in journalism, expressive and creative writing, advertising, production and sales.

STUDENT SERVICES

Housing

A list of community housing is available in the Admissions Office.

Library Services

The Clinton Community College library provides access to quality information sources in traditional and electronic formats to support the information needs of students, staff, and community patrons. Through the College's participation in RiverShare Libraries, patrons have access to over one million items available in area academic and public libraries. The library Website is www.eicc.edu/library and its phone number is 563-244-7046.

Career Services

The College's staff offers interest assessments and career services to set educational and career goals, assistance in preparing for a job search,and help in finding a job. Advisors are also available to help students identify concerns, make important educational decisions, adjust to college, improve personal relationships and set goals.

Success Center

The Success Center provides resources for students who need individual assistance to brush up, catch up or accelerate their skills to achieve college success. Peer tutoring is available free of charge for registered students in reading, grammar, basic math, writing skills and current college courses. Computers with internet and other audio/visual equipment are available in the Success Center for student use.

Student Success

CCC offers classes to help students learn time management and study skills and to achieve their maximum potential.

Check the schedule or ask your advisor for more information.

Internet

Internet access is available to students, staff and faculty at several campus computer lab locations. There is also wireless access in each of the College buildings. The EICC website includes an online credit class schedule database, general college information and links to other EICC sites. The address is: www.eicc.edu.

MUSCATINE
COMMUNITY COLLEGE

FOUNDATION

Founded in 1961 as a non-profit steward of gifts to the College, the Foundation strives to provide a "margin of excellence" in the College's programs and facilities. The Foundation supports educational programs, student and staff development, facilities improvement and alumni development, but the emphasis is on student scholarships and loans. More than $300,000 is awarded annually to deserving Muscatine Community College students for tuition, fees and books. Scholarship applications are due March 1st and November 1st.

For more information, contact:
Muscatine Community College Foundation
Lisa Wiegel, Scholarship Coordinator
152 Colorado St., Muscatine, IA 52761
563-288-6005
lwiegel@eicc.edu

THE COMMUNITY

With its long history and Mississippi River traditions, Muscatine enjoys a new spirit of progress that makes it a thriving modern community of more than 23,000 in the heart of agricultural/industrial mid-America. Early French explorers established the first settlement in 1832. In 1849 the original name, Bloomington, was changed to Muscatine after the Musquitine Indians living along the river.

Muscatine is home to 96 diversified industries, including two Fortune 500 companies. The area boasts numerous recreational activities, including water sports on the Mississippi and nearby Cedar and Iowa rivers, and a park system offering swimming, picnic areas, baseball, tennis, cycling, a soccer complex, horseshoes and golf. Many entertainment opportunities are available, as well as cultural enrichment through the Musser Museum and Art Gallery.

THE COLLEGE

Muscatine Community College offers an Arts and Sciences transfer program and numerous Career and Technical Education programs. The College has an annual enrollment of more than 1,800 full- and part-time students in credit programs. An additional 7,900 people are served by Continuing Education programs. Although many students attending Muscatine Community College enroll directly out of high school, the average age of students is 24, with more than 65 percent of students attending part-time.

Alumni association records show that almost 80 percent of Muscatine Community College graduates remain in Iowa, with others finding employment opportunities in every state and several foreign countries.

Well-qualified, experienced and dedicated instructors guide the educational experiences of students in small, personalized classes.

STUDENT PROGRAMS

Clubs and Organizations
Muscatine Community College offers many student clubs, organizations and activities ranging from special interest groups to campus-wide picnics and outings. Music, drama, and numerous other activities are available to all interested students. The Student Services division also sponsors a series of special activities designed to appeal to older students and their families.

Phi Theta Kappa
Phi Theta Kappa is a national honorary scholastic organization for community, junior and technical colleges. Students invited to join must have accumulated 12 credit hours and have a 3.5 or better GPA.

Student Government/Senate
The Student Senate, elected annually by the general student body, is open to all students. In addition to planning college activities, the Senate manages the student activities budget, recommends policy and provides a forum for student issues and concerns.

Intramural Athletics
The College also offers a variety of intramural activities ranging from volleyball and basketball, to pool table, bowling and flag football.

Student Newspaper
The award-winning Calumet is published throughout the academic year and includes college, community and national news and features. All students are invited to join the staff as writers, photographers, editors or advertising and layout specialists.

College/Community Activities
Activities sponsored jointly with community and service organizations provide students with an opportunity to hear nationally known speakers. The college also has an excellent Visiting Artist Series, co-sponsored by the Quad City Arts.

STUDENT SERVICES

Success Center
The Success Center provides an individualized environment for students in need of personal assistance in areas such as study skills, reading, grammar, basic math, writing skills and general classwork. Through the tutoring program, students requesting a tutor can be matched to an individual tutor at no charge.

Disability Accommodations
The College helps students with difficulties due to physical or learning disabilities, limited English skills or reading, math, spelling and writing problems. It is also a resource for students who need help in academic classes. Students learn strategies for note taking, study and listening skills, reading, time management, math, spelling and writing. Taped textbooks, test alternatives, taped class lectures, and vocational and transitional services are also available at 563-288-6013

Housing
The MCC student apartments are an amenity rich community located on campus just minutes away from the classrooms. Spacious two and four bedroom apartments with multilayered security systems and WiFi are available. Information is available by contacting the Residential Life Coordinator at 563-549-0203.

Test Center

Make-up testing is given upon instructor request. Special testing such as CLEP, online and other forms of testing are also given by appointment at 563-288-6056.

Advising Center

Appointments are encouraged, but not required. Advisors are listeners who can help students make educational decisions, adjust to college, set goals and change career goals.

The Advising Center offers human development courses to help students deal with typical student concerns. Advisors can also interpret test results, analyze academic records, give interest inventories, provide information about careers, educational programs and colleges, and help with job placement after graduation at 563-288-6001.

Study Skills

Muscatine Community College offers classes designed to help students learn time management and study skills and to achieve their maximum potential. Check the class schedule or see your advisor for more information.

Career Assistance

Career assistance is available to people of all ages through the Advising Center. Career exploration opportunities are provided by a variety of resources, including a career information library, the Occupational Outlooks Handbook, governmental publications and MCC's own Graduate Survey at 563-288-6052.

Child Care

The Learning Tree Preschool is an on-campus, licensed facility providing quality child care and educational experiences for the six-week-old to six-year-old children of college students, faculty and the general public. The program includes preschool education, creative play, field trips, art activities, hot noon meals and morning and afternoon snacks. The Learning Tree Preschool also serves as a laboratory for the college's Early Childhood Education students.

The preschool is staffed by a supervisor, teachers, aides and a cook. A parent advisory group helps formulate policies, plans special activities and publishes a parent newsletter. For more information, call 563-264-2088.

Library Services

Help for students looking for a job, investigating a career, studying for test, practicing test taking, and writing papers is available in our books and online. The library is the place for help from staff who are knowledgeable about the information students and faculty need for classes. Print resources and DVDs are available for borrowing. Electronic resources are available 24/7 and include: RiverShare (a way to access over one million books, DVDs, and CDs) and databases giving access to millions of full text online articles through PowerSearch, Opposing Viewpoints, and Ovid (Nursing). Videos on every subject are on Films on Demand.

The Library Café is open with coffee, tea, cider, pastries, fruit, salads, and pizza to keep you going! Contact us at 563-288-6072.

Lounge

The Muscatine Community College lounge, featuring wireless internet access, is a place to relax, watch TV, play pool and enjoy time with friends. The lounge is open during all school hours and offers a food area for a quick lunch or snack between classes.

Internet

Internet access is available to students, staff and faculty at several campus computer lab locations. There is also wireless access in each of the college buildings. The College's website includes an online credit class schedule database, general college information and links to other EICC sites. The address is: www.eicc.edu.

SCOTT COMMUNITY COLLEGE

FOUNDATION

The Scott Community College Foundation is an important link in the life of the college. Through gifts from faculty, staff, alumni, organizations and friends, the Foundation is able to provide scholarships, emergency grants and classroom equipment to assist students with their studies. The Foundation also supports faculty and staff through the Distinguished Teacher and Outstanding Staff Awards.

The Scott Community College Foundation is committed to supporting the college with the development of its programs and services.

For more information, contact the Foundation Office at 563-441-4063.

THE COMMUNITY

Scott Community College has campuses in Bettendorf and Davenport, Iowa. These two cities make up a major portion of a metropolitan area called the "Quad Cities." The Quad Cities, comprised of cities located on the Iowa and Illinois banks of the Mississippi, is home to several major industries including Arconic and Deere & Company. Another major employer is the Rock Island Arsenal.

The area has many parks, and the Mississippi River offers ideal recreational opportunities. A rich cultural environment has been created through the Quad City Symphony, Visiting Artist Series, Figge Art Museum, Putnam Museum of Natural History and the Family Museum of Arts and Science. Each July, Davenport is host to thousands of runners and music enthusiasts who come from all over the United States and the world to participate in the annual Bix Beiderbeck Jazz Festival and the Bix 7 mile run. The area is home to the John Deere Golf Classic PGA Tournament, Class A Quad Cities River Bandits baseball team, the SPHL Quad City Storm hockey team, and the Arena Football League 2 Quad City Steamwheelers.

THE COLLEGE

Scott Community College has grown from 240 students in 1966 to more than 7,800 students. The campus was built in 1968 on 181 acres of land donated by Alcoa, Inc. The main campus is in Bettendorf. In downtown Davenport is the SCC Urban Campus, which houses the College's Administrative Office Support, Business, and Information Technology programs. At the SCC/West Davenport Center, English Language Acquisition, Adult Basic Education and HiSET preparatory courses are taught. In August 2001, the John T. Blong Technology Center in northwest Davenport opened its doors, providing a state-of-the-art training facility for short-term, certificate, diploma and degree programs in manufacturing-related areas.

Scott Community College serves approximately 7,800 students in college transfer and Career Technical Education programs, and another 21,000 people in continuing education each year. The College also enrolls a number of international students who come to participate in credit English Language Acquisition courses or international exchange programs.

STUDENT PROGRAMS

Student Government/Senate
All students are eligible to be elected or appointed to the Student Government. The group allocates student activities funds, assists with campus improvements and acts as a student voice on policies and issues.

Clubs and Organizations
Students are invited to join the many clubs and organizations at Scott Community College. There are more than 30 clubs and organizations available for student participation. More information is available in the Student Activities Center.

Phi Theta Kappa
Phi Theta Kappa is a national honorary scholastic organization for community, junior and technical college students. Students invited to join must have accumulated 12 credit hours and have a 3.50 or better G.P.A.

Honors Program
Scott Community College has an Honors program for qualifying students. The program consists of meetings, activities and projects to be completed for credit. Students in Arts and Sciences or Career and Technical Education programs are invited to participate.

Intercollegiate and Intramural Athletics
Students can participate in the following intercollegiate sports at Scott Community College: women's soccer, men's soccer, women's cross county and men's cross country. More information is available in the Student Activities Office. To participate, a student must be enrolled full-time at Scott Community College.

STUDENT SERVICES

Disability Accommodations
Scott Community College is committed to making its services, programs and activities accessible to students with disabilities. A Learning Skills Specialist provides assistance in the form of accommodations such as note-taking assistance, readers, test accommodations, computer-assistive technology, text taping resources, adaptive equipment and sign language interpreters. Appropriate accommodations are identified on an individual basis. It is the student's responsibility to self-identify and to provide documentation of their disability. Persons with disabilities are encouraged to complete this first step as early as possible before the start of the semester by calling 563-441-4001.

Guidance
Student Services staff can help students with educational, personal and career-related concerns. Career guidance inventories are available by appointment; staff members are available to help students use these resources. The staff is committed to student success and can help set realistic academic and personal goals. For more information, call 563-441-4181 or visit Student Services in room 2204.

COLLEGE INFORMATION

Advising

Professional staff advisors and faculty advise students on appropriate courses for their educational programs. Contact the Student Services Office, Room 2204, for more information, or call 563-441-4181.

Housing

Located one mile from the Scott Community College Belmont campus is the Villas at Devils Glen. Owned and managed by the Oxbow Development Student Focused Housing Division, the Villas is a living community consisting of a combination of four-bedroom/four bath suites and two bedroom/two bath suites. For leasing information, contact The Villas at Devils Glen, 563 499-5511.

Student Success

Scott Community College offers classes designed to help students learn time management and study skills and to achieve their maximum potential. We strongly encourage students to take either SDV:114 Strategies for Academic Success or SDV:108 The College Experience, which address these issues in-depth. (see page 119) Check the class schedule or ask your adviser for more information.

Additionally, Scott Community College provides tutoring assistance for a variety of courses through a Writing Center, a Math Center and a Student Success Center at no cost to students.

TRIO Student Support Services, a federally funded program, offers intensive academic support services to students with the goals of earning an Associate Degree and transferring to a four-year school. To participate in the program, students must meet eligibility requirements, such as being first generation college students, having limited income and/or having a disability. Services provided to students include academic advising, coaching in study and learning strategies, career exploration and decision-making, progress monitoring, one-on-one-tutoring with tutorial specialists, financial awards to supplement the Pell Grant and visits to four-year schools. For more information or to apply to participate in this program, students may call 563-441-4074.

Job Placement

The Career Planning/Transfer Center (Room 3110) maintains an occupational resources library including information on specific careers, resume development and job search techniques. The office periodically offers workshops in resume writing and interviewing skills, and also compiles on-campus and off-campus job listings. Students looking for employment should register for job placement services at the office.

Library Services

The SCC Library provides access to quality information sources in traditional and electronic formats that support the information needs of students, faculty and staff. A major component of the library staff's responsibilities is to help patrons learn how to use these resources. Through SCC's participation in RiverShare, library patrons have access to over one million books, DVDs and CDs from the region; EBSCO and Academic One File, ways to access over 10,000 magazines, journals, and newspapers online. The library website is www.eicc.edu/library and the phone number is 563-441-4150.

Events Publications

Calendars are published monthly by the Student Activities Office. Forms for activity approval and publication are available in the Student Activities Center.

Class Schedules

Summer, fall and spring semester schedules are available online soon after mid-term. Contact the Admissions Office or the Student Services Office.

College Bookstore

Textbooks and course materials are available in the college bookstore, along with a variety of Scott Community College items, including sweatshirts, t-shirts, shorts, etc.

Internet

Internet access is available to students, staff and faculty at several campus computer lab locations. There is also wireless access in each of the College buildings. The College's website includes an online credit class schedule database, general college information and links to other EICC sites. The address is: www.eicc.edu.

Eastern Iowa Community Colleges' Continuing Education and Business Solutions division offers a wide array of personal and professional lifelong learning opportunities. Our training professionals develop and implement programs at the three colleges, community sites and workplaces for more than 30,000 people each year.

EICC Continuing Education also plays an active role in economic development by responding to employer needs and developing customized training and retraining opportunities. The colleges are pleased to design courses or workshops for groups or businesses interested in a particular subject.

For more information about the programs and services available through Continuing Education, call Iowa toll-free 1-888-336-3907 or one of the numbers below:

Continuing Education District Office	563-336-3444
Clinton Community College	563-244-7100
Muscatine Community College	563-288-6100
Scott Community College	563-441-4100

Business and Industry Training Solutions

Davenport	563-336-3444
Clinton	563-244-7064
Muscatine	563-288-6161

Small Business Development Center   563-336-3401

COSTS

Continuing Education tuition and fees are determined for each activity to assure quality programs are offered at an affordable price. Program fees are published with each activity announcement. Fees must be paid in full at the time of registration and will be refunded if notification of cancellation is received three business days (Monday - Friday) prior to the scheduled class date. Employers may contact the College to arrange billing for employee training.

ADMISSION

Although there may be specific admission requirements for a few programs, generally anyone 16 years of age or older who is not enrolled as a full-time high school student may enroll in classes designed for adults. High school students 16 or older may enroll with written permission from their guidance counselor or principal. For those special classes designed for youth, age is not a consideration for enrollment.

Because admissions procedures differ by program, consult the Colleges' Continuing Education Office for specific information.

REGISTRATION

Advanced registration is taken for all classes. You may enroll by phone, online, in person, by mail or by fax. Online and phone registration instructions are included in Continuing Education class schedules.

Cancelled Classes

Classes without sufficient registrations may be cancelled, in which case we will refund fees already collected.

Late Enrollment

You may not enroll in a Continuing Education class after the second class meeting or after the second week of classes for those activities that meet more than once a week.

Class Limits

Class limits help us ensure quality instruction. We will keep a waiting list with individuals listed in order of the date of their contact with the College, and this list will be used to fill classes if a space becomes available. If enough students are interested and an instructor is available, a second class may be organized.

ACCREDITATION AND MEMBERSHIPS

Eastern Iowa Community Colleges Continuing Education programs are accredited, certified and approved when necessary to meet appropriate agency and licensure requirements within the respective professional disciplines. Additionally, the College holds memberships in several organizations including the National Council of Continuing Education and Training (NCCET), the Iowa Association of Lifelong Learning (IALL), the National Coalition of Advanced Technology Centers (NCATC), the National Council for Workforce Education (NCWE), Learning Resources Network (LERN), Iowa EMS Association, National Association of EMS Educators and American Heart Association Cardiac Care.

PROGRAMS

Professional Development

The Continuing Education staff design, develop and deliver education and training programs, with the primary focus on short-term, flexible skill training. Content areas include:

Microcomputers – Novice to advanced classes in Windows, Word, Excel, Access, PowerPoint, Internet and many others. Enrollments are limited to enable everyone to have hands-on training. We also offer a series of online classes.

Management and Leadership – Programs include Leadership Training, which provides a practical approach to enhancing communication and team-building skills, as well as online management courses.

Professional Relicensure/Certification – Professional continuing education is available to those professionals requiring Continuing Education Units (CEUs). EICC Continuing Education offers CEUs in a myriad of areas, including but not limited to, dietitians, nurses, emergency medical service personnel, counselors, social workers, child care providers, morticians, auto dealers, insurance personnel and many more.

Technical Training – Emphasis is on new skill development and/or retraining. EICC has two advanced manufacturing technology centers – in Davenport and Muscatine – to provide state-of-the-art, hands-on training in such areas as welding, statistical process control, lean manufacturing, basic and advanced electricity, mechanical design, industrial maintenance, programmable logic control, basic and advanced CNC, engineering technology, industrial math and measurement, and hazardous materials/industrial safety. Individualized classes are available, offering learning at a flexible and convenient pace.

Customized Training

EICC's Continuing Education and Business Solutions division works with companies of all sizes to deliver training specifically designed to meet their individual educational needs. Training can be offered at the College or on-site at the employer's facility. Customized training is available in many areas, including computers, business, sales and marketing, management and supervision, industrial and technical fields, quality and productivity, lean business practices, and environmental and industrial safety. Online classes are also available.

Short-Term Skills Training

EICC offers short-term training in preparation for various occupations, including Nurse Aide, Homemaker/Home Health Aide, Medication Manager, Child Development Associate, Institutional Food Service, CNC Operator, Production Welder, Virtual and Augmented Reality, Medical Billing and Coding, Phlebotomy Technician and many more.

Iowa students meeting eligibility requirements may be eligible for financial assistance for select short-term training programs leading to immediate employment.

English Language Acquisition

ELA– English Language Acquisition (ELA) is a program to help refugees, immigrants, and others with limited English skills to learn to live and function in the United States. Classes will provide content on reading, writing, and speaking the language as it relates to common life and workforce concepts. Students will apply language learning skills to work, life, and civics scenarios. Opportunities to prepare for the Citizenship test are also available.

Adult Educational Services

ABE – Adult Basic Education (ABE) provides learning experiences in reading, writing, math, computer literacy, and other life skills. Regardless of level, small classes and personalized attention let students progress at their own rate to meet their learning goals. Class content is designed to fit individual learning styles.

HSE – The High School Equivalency (HSE) program prepares individuals to earn a state sanctioned high school credential. The program offers four options for earning an HSE diploma:

Option 1: HSE by Examination – prepares individuals to pass the standardized and nationally normed High School Equivalency Tests (HiSET) in the areas of Math, Science, Reading, Writing, and Social Studies.

Option 2: HSE by High School Credit – allows a student to demonstrate proficiency in subject areas through a review of their high school transcripts. Students choosing this option will have a review of their transcripts to identify incomplete requirements for high school graduates. Once these learning gaps have been identified, individuals will complete instructor-guided online courses in the subjects needed to complete HSE requirements. This option may benefit students with a minimal number of credits left to complete.

Option 3: HSE by Post-Secondary Degree (Domestic) – Individuals who have not completed high school but have gone on to earn a post-secondary degree, Associate's degree or higher, with a regionally accredited institution of higher learning may submit their credentials to the Adult Education program for review. Upon review of these credentials, the student may be retroactively awarded an HSE diploma with no additional coursework.

Option 4: HSE by Post-Secondary Degree (Foreign) – Individuals who have not completed high school but have gone on to earn a post-secondary degree, Associate's degree or higher, with a foreign institution of higher learning may submit their credentials to the Adult Education program for review. Upon review of these credentials, the student may be retroactively awarded an HSE diploma with no additional coursework. Credentials must be presented in their original form and, if necessary, accompanied by a certified English translation.

Coursework for options 1 and 2 also serves as preparation for entering college and/or the job market. Instruction is applied to real-work scenarios to help students make personal connections with their learning.

Degree Plan for Working Adults

The Working Adult program provides a convenient and flexible way for individuals balancing the demands of work and other life priorities to pursue additional education credentials. Through the use of EICC's Flexclass delivery model, you can reduce time spent in the classroom in exchange for access via distance technologies. Schedules are designed to help students progress through a degree program at a pace that fits their lifestyle and personal schedule. Participants may opt to complete an Associate's degree or take individual courses that enhance skills and added value to employers.

General Interest

General interest courses and activities provide the opportunity to explore subjects that enhance quality of life. Topic areas include community resource development, environmental education and leisure time activities.

Mandatory Programs

The State of Iowa requires EICC to offer certain courses they deem in the best interest of our citizenry. Some are court mandated or court referred and may be offered in conjunction with other public service entities.

Continuing Education Unit (CEU)

Approved Continuing Education programs offer classes to prepare for and maintain license or certification in professional areas. Classes are approved by appropriate governing agencies and transcripts are maintained. Some areas approved include health, emergency medical services, cosmetology and food services.

CEUs will be made available for selected courses in accordance with the guidelines established by the licensing board for the specific professions.

BUSINESS AND INDUSTRY TRAINING SOLUTIONS

Since 1987 EICC has provided companies with solutions to enhance employee skills and productivity. Our Business Solutions consultants offer expert assessment of training needs and work with companies to deliver a customized, hands-on, state-of-the-art training program tailored to the organization's unique needs. Both non-credit and credit programs in a variety of fields are available, in addition to on-site training and flexible scheduling to make efficient use of equipment and employees' time.

Business Solutions consultants are located at Clinton and Muscatine Community Colleges and at the John T. Blong Technology Center in northwest Davenport.

Small Business Development Center

The Small Business Development Center (SBDC) provides confidential counseling for owners and would-be owners of small businesses in a wide range of areas, including how to start a business, accounting and record-keeping, seeking financing, marketing and advertising, organization and management, computers and software, and other areas appropriate for small business needs.

The SBDC is jointly sponsored by EICC, the State of Iowa and the U.S. Small Business Administration. There are 15 centers throughout Iowa.

IowaWORKS

IowaWORKS is the one-stop office for employment services in Region 9, which includes Clinton, Jackson, Muscatine, and Scott Counties. IowaWORKS houses services provided by Iowa Workforce Development and the Eastern Iowa Community Colleges' Workforce Innovation Opportunity (WIOA) and Promise Jobs. The one-stop office provides job seekers with a wide range of services and support in one location.

IowaWORKS also offers services in Clinton, Jackson, and Muscatine counties in collaboration with core partners - Voc Rehab, Department for the Blind, and Adult Education.

METHODS OF INSTRUCTION

eLearning - EICC's eLearning department provides guidance and support for online, hybrid, streaming, and e-companion courses throughout the district. Staff provide personal assistance to students, faculty, and staff with regard to implementation and best practices related to distance technologies. Each course at EICC utilizes the Learning Management System (LMS) to provide online grading and supplemental materials and tools that support student success.

Online - Online courses are delivered completely utilizing web technologies. Students and faculty typically participate in these courses from a distance - although they may be accessed anywhere there is Internet access, including all EICC campuses and centers. There is no classroom requirement in this format, however the courses are not self-paced. Classes are taught by college instructors and provide the same academic rigor provided in the classroom delivery format.

Hybrid - Also referred to as 'blended', hybrid courses are delivered with a combination of online and classroom-based instruction. Time in-class is supplanted by instruction utilizing online Learning Management System. The reduced time on campus creates a flexible alternative for individuals who need to balance work or other priorities.

Streaming - Courses delivered in the streaming format make use of videoconferencing tools to expand geographical access to classes across the EICC district. Using live audio/video software, classes may be streamed to multiple locations, creating options that are closer to your home or work. Students from all locations may attend at their nearest center and participate in group discussions with individuals from other communities and campuses. Sometimes combined with the hybrid format, we offer the ultimate flexible options for teaching and learning.

eCompanion – All traditional classroom courses (also known as face-to-face or F2F) make use of the college's online Learning Management System (LMS). These classes are referred to as eCompanion courses, as they are supplemented with tools that provide online access to grading, assignment submission, testing, and other options and also provide a common location for the storage of supporting materials and the ability to engage in electronic communication outside of the classroom.

EICC FOUNDATION

The Eastern Iowa Community Colleges Foundation builds awareness, friendships and financial support to further EICC's mission of delivering quality education and services to strengthen our community. The Foundation seeks monetary and in-kind resources for district-wide projects, with an emphasis on support for our Continuing Education programming. Focus areas include Adult Basic Education/High School Completion, the Midwest Center for Public Safety Training, the Eastern Iowa Small Business Development Center, and the Advanced Technology Environmental and Energy Center.

For more information about the EICC Foundation, call 563-336-3302.

SERVICES AVAILABLE AT THE IOWAWORKS OFFICE

At IowaWORKS , it is our job to provide you with the resources you need to get a job. We offer a wide range of services to meet your individual job search needs including:

Pre-Employment Training

Each month, IowaWorks offers pre-employment training workshops on a variety of topics. These workshops are free and open to all job seekers. Topics include job search assistance, computer training, customer service, and much more. To find out about workshops and register, stop by an IowaWorks office or call 563-445-3200 x43310. Pre-registration is required.

National Career Readiness (NCRC)

Register to take the NCRC test. See if you qualify for a certificate that tells employers about your work-related skills. Many employers are requesting NCRC from applicants. The test is free for Iowa residents and veterans. NCRC testing is offered in all Region 9 counties every month. To register, call 563-445-3200, x43310. Pre-registration is required.

Resource Assistance

Need help with a resume, online job applications, or interview preparation? Need to write a cover letter or thank you? Maybe you just need a few tips or someone to proofread your resume. Stop in and check out the IowaWORKS Skills Lab. Staff is available to assist job seekers. Mondays, Tuesdays, Thursdays, and Fridays from 8:30 a.m. – 4:30 p.m., and Wednesdays from 9:00 a.m. – 4:30 p.m.

SERVICES AVAILABLE FOR JOB SEEKERS

IowaWORKS offers a wide array of services. Items marked (*) are available only to eligible WIOA participants who are selected for enrollment in intensive and training services.

- Career Planning
- Career Counseling
- Job Search Assistance
- Assessment of Skills and Interests
- Labor Market Information
- Job Search Workshops
- Skills Lab for Job Search
- Short Term Training*
- Assistance with Transportation, Child Care, and other Support Service Needs*
- Case Management and On-going Support*
- Work Experience*
- On-the-Job Training*
- Financial Assistance for Career Training Programs*

WIOA Services Available for Businesses

In addition to providing services for job seekers, IowaWORKS provides services to businesses in our communities in order to meet ever-changing workforce needs and to assist with hiring and employment services such as:

- Assistance with hiring processes
- Candidate screening
- Interview assistance
- Coordination with local media
- On-site recruitment and interviews
- Coordination of job fairs for new and expanding companies
- Labor market information
- Referral of skilled candidates
- National Career Readiness Certification testing
- Customized training for eligible individuals
- Work experience and internship opportunities
- Rapid response support for companies that are closing or down-sizing

IowaWorks

902 W. Kimberly Rd., Suite 51
Davenport, IA 52806
563-445-3200

Clinton Community College

1000 Lincoln Blvd.
Room 170
Clinton, IA 52732
563-244-7141

Clinton Community College

Maquoketa Center
501 W. Washington
Maquoketa, IA 52060
563-244-7193

Muscatine Community College

152 Colorado St.
Room 102 Student Center
Muscatine, IA 52761
563-288-6177

Scott Community College

500 Belmont Rd.
Career and Technical Education Bldg.
Bettendorf, IA 52722
563-441-4020

Scott Community College

West Davenport Center
2950 Fairmount St.
Davenport, IA 52806
563-326-5319

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EASTERN IOWA
COMMUNITY COLLEGES
CLINTON • MUSCATINE • SCOTT

THE *Community's College*

EICC PROGRAMS

Discover. Succeed. Community.

EICC DEGREES

Associate of Arts (AA) - Concentration Areas

An Associate of Arts degree is a two-year program of coursework that is intended for the student who plans to transfer to a four-year college to complete a Bachelor's Degree.

EMPHASIS	LOCATION
Agriculture	MCC
Banking	CCC, MCC, SCC
Biology	CCC, MCC, SCC
Business	CCC, MCC, SCC
Chemistry	CCC, MCC, SCC
Criminal Justice	CCC, MCC, SCC
Education	CCC, MCC, SCC
English	CCC, MCC, SCC
Environmental Science	CCC, MCC, SC
Fine Arts – Art	CCC, MCC, SCC
Fine Arts – Drama	MCC, SCC
Fine Arts – Music	MCC
History	CCC, MCC, SCC
Journalism/Communication	CCC, MCC, SC
Liberal Arts	CCC, MCC, SCC
Management	CCC, MCC, SCC
Marketing	CCC, MCC, SCC
Mathematics	CCC, MCC, SCC
Physical Education & Recreation	CCC, MCC, SCC
Physical Science	CCC, MCC, SCC
Physics	CCC, MCC, SCC
Political Science	CCC, MCC, SCC
Pre-Chiropractic	CCC, MCC, SCC
Pre-Engineering	CCC, MCC, SCC
Pre-Health Professional	CCC, MCC, SCC
Pre-Law	CCC, MCC, SCC
Psychology	CCC, MCC, SCC
Social Work	CCC, MCC, SCC
Sociology	CCC, MCC, SCC
Speech	CCC, MCC, SCC
Undecided	CCC, MCC, SCC

Associate of Science (AS) - Emphasis Areas

An Associate of Science degree is a two-year program of coursework with an emphasis on math and science, and is intended for the student who plans to transfer to a four-year college to complete a Bachelor's Degree in mathematics, natural sciences or a pre-professional degree that emphasizes math and science.

EMPHASIS	LOCATION
Agriculture	MCC
Biology	CCC, MCC, SCC
Chemistry	CCC, MCC, SCC
Chemistry Laboratory Processes	CCC, MCC, SCC
Conservation	CCC, MCC, SCC
Environmental Science	CCC, MCC, SCC
Mathematics	CCC, MCC, SCC
Physical Science	CCC, MCC, SCC
Physics	CCC, MCC, SCC
Pre-Chiropractic	CCC, MCC, SCC
Pre-Engineering	CCC, MCC, SCC
Pre-Health Professional	CCC, MCC, SCC
Undecided, Interest in Science and Math	CCC, MCC, SCC

Associate of Applied Science (AAS)

An Associates of Applied Science degree is a two-year program of coursework to prepare the student for employment.

PROGRAM OF STUDY	LOCATION
Accounting Management	CCC, MCC, SCC
Administrative and Office Support	CCC, MCC, SCC
Agribusiness Management	MCC
Agribusiness Management – Agribusiness Equipment Technician	MCC
Agribusiness Management - Precision Agribusiness Management	MCC
Agribusiness Management - Agriculture Systems Technology	MCC
American Sign Language – English Interpreting	SCC
Auto Collision Repair Technology	SCC
Automotive Technology	SCC
Business Management	CCC, MCC, SCC
Cancer Information Management	SCC
CNC/Machining	SCC
Culinary Arts Apprenticeship	MCC, SCC
Culinary Arts	MCC, SCC
Dental Hygiene**	CCC, MCC, SCC/CSC
Diesel Technology	SCC
Early Childhood Education	MCC, SCC
Electroneurodiagnostic Technology****	SCC
Emergency Medical Services	CCC, MCC, SCC
Engineering Technology – Automation, Electromechanical, or Process Control	CCC, MCC, SCC
Environmental, Health, and Safety	CCC, MCC, SCC
Farm Management	MCC
Graphic Arts Technology	CCC
Health Information Technology	SCC
Hospitality Management	MCC, SCC
Information Technology – Augmented and Virtual Reality	SCC
Information Technology – Database	CCC, MCC, SCC
Information Technology – Networking for Systems and Security	CCC, MCC, SCC
Information Technology – Programming	CCC, MCC, SCC
Information Technology – Security and Forensics	CCC, MCC, SCC
Information Technology – Web Development	CCC, MCC, SCC
Mechanical Design Technology	SCC
Mortuary Science**	CCC, MCC, SCC/CSC
Nursing, Associates Degree	CCC, SCC
Radiologic Technology	SCC
Renewable Energy Systems Specialist	SCC
Respiratory Care***	CCC, MCC, SCC/NICC
Sonography – Diagnostic Cardiac	SCC
Sonography – Diagnostic Medical	SCC
Supply Chain and Logistics	CCC, MCC, SCC
Surgical Technology*	SCC
Technical Studies	CCC, MCC, SCC
Veterinary Technician	MCC
Welding	SCC

PROGRAMS OF STUDY BY DEGREE & LOCATION

Diploma
A Diploma is a program of coursework which may be completed in less than two years. It prepares the student for employment in the field.

PROGRAM OF STUDY	LOCATION
Accounting Management	CCC, MCC, SCC
Administrative and Office Support	CCC, MCC, SCC
Agribusiness Management – Agribusiness Equipment Sales and Service	MCC
Agribusiness Management – Agronomy	MCC
Agribusiness Management – Sales and Service	MCC
Auto Collision Repair Technology	SCC
Automotive Technology	SCC
Cancer Information Management	SCC
Culinary Arts	MCC, SCC
Dental Assisting	SCC
Diesel Technology	SCC
Early Childhood Education	MCC, SCC
Engineering Technology – Electromechanical	CCC, MCC, SCC
Environmental, Health and Saftey	CCC, MCC, SCC
Graphic Arts Technology	CCC
Health Informatics****	SCC
Health Information Technology	SCC
Heating, Ventilation and Air Conditioning	SCC
Hospitality Management – Hospitality Skills	MCC, SCC
Information Technology – Augmented and Virtual Reality	SCC
Information Technology – Networking for Systems and Security	CCC, MCC, SCC
Information Technology – Networking for Cybersecurity	CCC, MCC, SCC
Information Technology – Programming	CCC, MCC, SCC
Mechanical Design Technology	SCC
Medical Assistant	SCC
Practical Nursing	CCC, MCC, SCC
Supply Chain and Logistics	CCC, MCC, SCC
Welding	SCC

Certificate

A Certificate is a program of coursework which may be completed within 12 months or less. It prepares the student for employment in the field.

PROGRAM OF STUDY	LOCATION
Administrative and Office Support	CCC, MCC, SCC
American Sign Language – English Interpreting – Deaf Studies	SCC
Auto Collision Repair Technology	SCC
Automotive Technology – Basic Service	SCC
Automotive Technology – General Service	SCC
Business Management – Entrepreneurship	CCC, MCC, SCC
Business Management – Management Supervision	CCC, MCC, SCC
Business Management – Marketing	CCC, MCC, SCC
Business Management – Small Business Management	CCC, MCC, SCC
Cancer Information Management	SCC
CNC/Machining – CNC Programming	SCC
CNC/Machining – Manual Machining	SCC
Culinary Arts	MCC, SCC
Culinary Arts – Baking	MCC, SCC
Dental Assisting – Dental Assisting Expanded Functions	SCC
Dental Assisting – Community Dental Health Coordinator Certificate	
Diesel Technology – Heavy Duty Train	SCC
Diesel Technology – Truck Electrical	SCC
Early Childhood Education	MCC, SCC
Emergency Medical Services – Emergency Medical Technician	CCC, MCC, SCC
Emergency Medical Services – Advanced Emergency Medical Technician	CCC, MCC, SCC
Engineering Technology – Basic Electricity	CCC, SCC
Engineering Technology – Basic Electronics	CCC, SCC
Engineering Technology – Electrical Systems	CCC, SCC
Engineering Technology – Process Control Technology	CCC, SCC
Environmental, Health and Saftey	CCC, MCC, SCC
Health Informatics****	SCC
Hospitality Management – Skills	MCC, SCC
Hospitality Management – Event Management	MCC, SCC
Information Technology – Cybersecurity	SCC
Mechanical Design Technology	SCC
Supply Chain and Logistics – Inventory Control	CCC, MCC, SCC
Supply Chain and Logistics – Logistics and Transportation	CCC, MCC, SCC
Truck Driving	SCC
Truck Driving – Truck Driving and Transportation Training	SCC
Welding – Basic Welding	MCC, SCC
Welding – General Maintenance Welding	SCC
Welding – Production Welding	CCC, SCC
Welding – Structural Welding	SCC

**   Shared program. Degree awarded by Carl Sandburg College in Galesburg, Illinois

***   Shared program. Degree awarded by Northeast Iowa Community College in Peosta, Iowa

**** No longer accepting students into this program.

EICC DEGREES BY CAREER CLUSTER

PROGRAM OF STUDY	DEGREE	LOCATION
AGRICULTURE, FOOD AND NATURAL RESOURCES		
Agribusiness Management – Agribusiness Equipment Technician	AAS	MCC
Agribusiness Management – Agribusiness Equipment Sales and Service	Diploma	MCC
Agribusiness Management*	AAS	MCC
Agribusiness Management – Agronomy*	Diploma	MCC
Agribusiness Management – Precision Agribusiness Management	AAS	MCC
Agribusiness Management – Sales and Service	Diploma	MCC
Agribusiness Management – Systems Technology	AAS	MCC
Agriculture (Transfer)	AA, AS	MCC
Conservation (Transfer)	AS	MCC
Environmental, Health and Safety	AAS, Diploma, Certificate	CCC, MCC, SCC
Farm Management*	AAS	MCC
Renewable Energy Systems Specialist	AAS	SCC
ARCHITECTURE AND CONSTRUCTION		
Heating, Ventilation and Air Conditioning	AAS, Diploma, Certificate	SCC
ARTS, A/V TECHNOLOGY AND COMMUNICATIONS		
English (Transfer)	AA	CCC, MCC, SCC
Fine Arts – Arts, (Transfer)	AA	CCC, MCC, SCC
Fine Arts – Drama (Transfer)	AA	MCC, SCC
Fine Arts – Music (Transfer)	AA	MCC
Graphic Arts Technology	AAS, Diploma	CCC
Journalism/Communications (Transfer)	AA	CCC, MCC, SCC
Speech (Transfer)	AA	CCC, MCC, SCC
BUSINESS, MANAGEMENT AND SUPERVISION		
Accounting Management	AAS, Diploma	CCC, MCC, SCC
Administrative and Office Support	AAS, Diploma, Certificate	CCC, MCC, SCC
Business (Transfer)	AA	CCC, MCC, SCC
Business Management	AAS	CCC, MCC, SCC
Business Management – Entrepreneurship	Certificate	CCC, MCC, SCC
Business Management – Management Supervision	Certificate	CCC, MCC, SCC
Business Management – Marketing	Certificate	CCC, MCC, SCC
Business Management – Small Business Management	Certificate	CCC, MCC, SCC
EDUCATION AND TRAINING		
Early Childhood Education	AAS, Diploma, Certificate	MCC, SCC
Education (Transfer)	AA	CCC, MCC, SCC
Physical Education and Recreation (Transfer)	AA	CCC, MCC, SCC
FINANCE		
Accounting Management	AAS, Diploma	MCC, SCC
Banking (Transfer)	AA	CCC, MCC, SCC
Business (Transfer)	AA	CCC, MCC, SCC

PROGRAMS OF STUDY BY CAREER CLUSTER

PROGRAM OF STUDY	DEGREE	LOCATION
GOVERNMENT AND PUBLIC ADMINISTRATION		
History (Transfer)	AA	CCC, MCC, SCC
Political Science (Transfer)	AA	CCC, MCC, SCC
HEALTH SCIENCE		
Cancer Information Management	AAS, Diploma, Certificate	SCC
Dental Assisting*	Diploma	SCC
Dental Assisting Expanded Functions	Certificate	SCC
Dental Assisting – Community Dental Health Coordinator*	Certificate	SCC
Dental Hygiene**	AAS	CCC, MCC, SCC/CSC
Electroneurodiagnostic Technology	AAS	SCC
Emergency Medical Services	AAS	CCC, MCC, SCC
Emergency Medical Services – Advanced Emergency Medical Technician	Certificate	CCC, MCC, SCC
Emergency Medical Services –Emergency Medical Technician	Certificate	CCC, MCC, SCC
Health Informatics	Diploma, Certificate	SCC
Health Information Technology	AAS, Diploma	SCC
Medical Assistant	Diploma	SCC
Mortuary Science**	AAS	CCC, MCC, SCC/CSC
Nursing, Associates Degree	AAS	CCC, SCC
Practical Nursing	Diploma	CCC, MCC, SCC
Pre-Chiropractic (Transfer)	AA, AS	CCC, MCC, SCC
Pre-Health Professional (Transfer)	AA, AS	CCC, MCC, SCC
Radiologic Technology	AAS	SCC
Respiratory Care***	AAS	CCC, MCC, SCC/NICC
Sonography – Diagnostic Cardiac	AAS	SCC
Sonography – Diagnostic Medical	AAS	SCC
Surgical Technology*	AAS	SCC
Veterinary Technician	AAS	MCC
HOSPITALITY AND TOURISM		
Culinary Arts Apprenticeship	AAS	MCC, SCC
Culinary Arts	AAS, Diploma, Certificate	MCC, SCC
Culinary Arts – Baking	Certificate	MCC, SCC
Hospitality Management	AAS	SCC
Hospitality Management – Event Management	Certificate	SCC
Hospitality Management – Hospitality Skills	Diploma, Certificate	SCC
Physical Education and Recreation (Transfer)	AA	CCC, MCC, SCC
HUMAN SERVICES		
American Sign Language – English Interpreting	AAS	SCC
American Sign Language – English Interpreting – Deaf Studies	Certificate	SCC
Early Childhood Education	AAS, Diploma, Certificate	MCC, SCC
Psychology (Transfer)	AA	CCC, MCC, SCC
Social Work (Transfer)	AA	CCC, MCC, SCC
Sociology (Transfer)	AA	CCC, MCC, SCC

PROGRAMS OF STUDY BY CAREER CLUSTER

PROGRAM OF STUDY	DEGREE	LOCATION
INFORMATION TECHNOLOGY		
Information Technology – Augmented and Virtual Reality	AAS	CCC, MCC, SCC
Information Technology – Database	AAS	CCC, MCC, SCC
Information Technology – Networking for Systems and Security	AAS, Diploma, Certificate	CCC, MCC, SCC
Information Technology – Programming	AAS, Diploma	CCC, MCC, SCC
Information Technology – Security and Forensics	AAS	CCC, MCC, SCC
Information Technology – Web Development	AAS	CCC, MCC, SCC
Information Technology – Augmented and Virtual Reality	Diploma	SCC
Information Technology - Networking for Cybersecurity	Diploma	SCC
Information Technology – Cybersecurity	Certificate	SCC
LAW, PUBLIC SAFETY AND SECURITY		
Criminal Justice (Transfer)	AA	CCC, MCC, SCC
Pre-Law (Transfer)	AA	CCC, MCC, SCC
MANUFACTURING		
CNC/Machining	AAS	SCC
CNC/Machining – CNC Programming	Certificate	SCC
CNC/Machining – Manual Machining	Certificate	SCC
Engineering Technology – Automation, Electromechanical or Process Control	AAS	CCC, MCC, SCC
Engineering Technology – Basic Electricity	Certificate	MCC, SCC
Engineering Technology – Basic Electronics	Certificate	MCC, SCC
Engineering Technology – Electrical Systems	Certificate	CCC, SCC
Engineering Technology – Electromechanical	Diploma	CCC, MCC, SCC
Engineering Technology – Process Control Technology	Diploma, Certificate	CCC, MCC, SCC
Mechanical Design Technology	AAS, Diploma, Certificate	CCC, MCC, SCC
Technical Studies	AAS	CCC, MCC, SCC
Welding	AAS, Diploma	CCC, MCC, SCC
Welding – Basic Welding	Certificate	MCC, SCC
Welding – General Maintenance Welding	Certificate	MCC, SCC
Welding – Production Welding	Certificate	CCC, MCC, SCC
Welding – Structural Welding	Certificate	MCC, SCC
MARKETING, SALES AND SERVICES		
Business Management – Marketing	Certificate	CCC, MCC, SCC
Marketing (Transfer)	AA	CCC, MCC, SCC
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS		
Biology (Transfer)	AA, AS	CCC, MCC, SCC
Chemistry (Transfer)	AA, AS	CCC, MCC, SCC
Chemistry Laboratory Processes (Transfer)	AS	CCC, MCC, SCC
Engineering Technology	AAS	CCC, MCC, SCC
Environmental Science (Transfer)	AA, AS	CCC, MCC, SCC
Mathematics (Transfer)	AA, AS	CCC, MCC, SCC
Physical Science (Transfer)	AA, AS	CCC, MCC, SCC
Pre-Engineering (Transfer)	AS	CCC, MCC, SCC

PROGRAM OF STUDY	DEGREE	LOCATION
TRANSPORTATION, DISTRIBUTION AND LOGISTICS		
Auto Collision Repair Technology	AAS, Diploma, Certificate	SCC
Automotive Technology	AAS, Diploma	SCC
Automotive Technology – Basic Service	Certificate	SCC
Automotive Technology – General Service	Certificate	SCC
Diesel Technology	AAS, Diploma	SCC
Diesel Technology – Heavy Duty Train	Certificate	SCC
Diesel Technology – Truck Electrical	Certificate	SCC
Supply Chain and Logistics	AAS, Diploma	CCC, MCC, SCC
Supply Chain and Logistics – Inventory Control	Certificate	CCC, MCC, SCC
Supply Chain and Logistics – Logistics and Transportation	Certificate	CCC, MCC, SCC
Truck Driving	Certificate	SCC
Truck Driving – Truck Driving and Transportation Training	Certificate	SCC
UNDECIDED		
Transfer	AA	CCC, MCC, SCC
Transfer, Interest in Science or Math	AS	CCC, MCC, SCC

** Shared program. Degree awarded by Carl Sandburg College in Galesburg, Illinois

*** Shared program. Degree awarded by Northeast Iowa Community College in Peosta, Iowa

EASTERN IOWA
COMMUNITY COLLEGES
CLINTON ◆ MUSCATINE ◆ SCOTT

THE *Community's* College

ARTS & SCIENCES

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ARTS & SCIENCES LISTINGS

Concentration Areas	Award	College(s)	Page
Agriculture	AA/AS Degree	MCC	51
Banking	AA Degree	CCC, MCC, SCC	51
Biology	AA/AS Degree	CCC, MCC, SCC	52
Business	AA Degree	CCC, MCC, SCC	53
Chemistry	AA Degree	CCC, MCC, SCC	53
Chemistry	AS Degree	CCC, MCC, SCC	54
Chemistry Laboratory Processes	AS Degree	CCC, MCC, SCC	54
Conservation	AS Degree	MCC	55
Criminal Justice	AA Degree	CCC, MCC, SCC	55
Education	AA Degree	CCC, MCC, SCC	56
English	AA Degree	CCC, MCC, SCC	56
Environmental Science	AA Degree	CCC, MCC, SCC	57
Environmental Science	AS Degree	CCC, MCC, SCC	57
Fine Arts–Art	AA Degree	CCC, MCC, SCC	58
Fine Arts–Drama	AA Degree	MCC, SCC	58
Fine Arts–Music	AA Degree	MCC	59
History	AA Degree	CCC, MCC, SCC	59
Journalism/Communication	AA Degree	CCC, MCC, SCC	60
Liberal Arts	AA Degree	CCC, MCC, SCC	60
Management	AA Degree	CCC, MCC, SCC	62
Marketing	AA Degree	CCC, MCC, SCC	62
Mathematics	AA/AS Degree	CCC, MCC, SCC	63
Physical Education/Recreation	AA Degree	CCC, MCC, SCC	63
Physical Science	AA/AS Degree	CCC, MCC, SCC	64
Physics	AA/AS Degree	CCC, MCC, SCC	65
Political Science	AA Degree	CCC, MCC, SCC	66
Pre–Chiropractic	AA/AS Degree	CCC, MCC, SCC	66
Pre–Engineering	AS Degree	CCC, MCC, SCC	67
Pre–Health Professional	AA/AS Degree	CCC, MCC, SCC	67
Pre–Bachelor of Science in Nursing	AA/AS Degree	CCC, MCC, SCC	
Pre–Dentistry	AA/AS Degree	CCC, MCC, SCC	
Pre–Dental Hygiene	AA/AS Degree	CCC, MCC, SCC	
Pre–Medical Technology	AA/AS Degree	CCC, MCC, SCC	
Pre–Medical	AA/AS Degree	CCC, MCC, SCC	
Pre–Mortuary Science	AA/AS Degree	CCC, MCC, SCC	
Pre–Nursing–Trinity	AA Degree	CCC, MCC, SCC	
Pre–Pharmacy	AA/AS Degree	CCC, MCC, SCC	
Pre–Physical Therapy	AA/AS Degree	CCC, MCC, SCC	
Pre–Veterinary	AA/AS Degree	CCC, MCC, SCC	
Pre–Law	AA Degree	CCC, MCC, SCC	68
Psychology	AA Degree	CCC, MCC, SCC	68
Social Work	AA Degree	CCC, MCC, SCC	69
Sociology	AA Degree	CCC, MCC, SCC	69
Speech	AA Degree	CCC, MCC, SCC	70

Note: If your area of interest is not listed in the Concentration Areas, the Liberal Arts Concentration Area provides a solid foundation for successful transfer to four–year educational institutions. If you are undecided about a program of study, an academic advisor can assist you in your decision.

Study Abroad

Clinton, Muscatine and Scott Community Colleges offer a number of opportunities for study abroad through a variety of consortia. Credit may be given toward a Liberal Arts degree and may be transferred to other colleges and universities. Students should inquire about current study abroad opportunities at each college's academic advising office.

All students pursuing an Associate of Arts degree must fulfill general education requirements as outlined here. The courses that will fulfill these requirements are listed below.

Communications (9 credits required)

Select one of these courses: **Credits**

ENG:105	Composition I	3.00
ENG:107	Composition I: Technical Writing	3.00

Select one of these courses:

ENG:106	Composition II	3.00
ENG:108	Composition II: Technical Writing	3.00

Select one of these courses:

SPC:112	Public Speaking	3.00
SPC:170	Professional Communication	3.00

Arts and Humanities (9 credits required)

Select one Literature course:

LIT:101	Introduction to Literature	3.00
LIT:111	American Literature since Mid–1800's	3.00
LIT:130	African American Literature	3.00
LIT:135	Film as Literature	3.00
LIT:185	Contemporary Literature	3.00

Select one Humanities course:

DRA:110*	Introduction to Film	3.00
HUM:110	Changes and Choices	3.00
HUM:183	Living with Space, Time and Technology	3.00
PHI:101	Introduction to Philosophy	3.00
PHI:105	Introduction to Ethics	3.00
PHI:110	Introduction to Logic	3.00
REL:101	Survey of World Religions	3.00

Select one course in the Fine Arts: **Credits**

ART:101	Art Appreciation	3.00
DRA:101	Introduction to Theatre	3.00
DRA:110*	Introduction to Film	3.00
HUM:135	Humanities of the Early World	3.00
HUM:136	Humanities of the Renaissance	3.00
HUM:137	Humanities of the Modern World	3.00
MUS:100	Music Appreciation	3.00

* DRA:110 Introduction to Film can fulfill either the Humanities or the Fine Arts requirement, but not both.

Cultural/Historical Perspectives (6 credits required)

Select one course from the Western perspective:

HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History since 1877	3.00

Select one course from an Intercultural perspectives or language:

ANT:105	Cultural Anthropology	3.00
ASL:151	American Sign Language I	3.00
CLS:150	Latin American History and Culture	3.00
FL_:___	Foreign Language – One Semester	3.00–4.00
GEO:121	World Regional Geography	3.00
GLS:100	Contemporary World Issues	3.00
GLS:120	Education Experience Abroad	1.00–3.00
HIS:211	Modern Asia History	3.00
HIS:231	Contemporary World Affairs	3.00

Social Sciences (6 credits required)

Select one Economics or Political Science course:

ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
POL:111	American National Government	3.00

Select one Psychology or Sociology course:

PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

Natural Sciences (8 credits required)

Select one course in the Life Sciences: **Credits**

BIO:105	Introductory Biology	4.00
BIO:114	General Biology IA	4.00
BIO:125	Plant Biology	4.00
BIO:157	Human Biology	4.00
BIO:163	Essentials of Anatomy and Physiology	4.00
BIO:168	Human Anatomy and Physiology I	4.00
ENV:111*	Environmental Science	4.00
ENV:145	Conservation Biology	4.00

Select one course in the Physical Sciences:

CHM:122	Introduction to General Chemistry	4.00
CHM:165	General Chemistry I	4.00
CHM:166	General Chemistry I	5.00
CHM:179	Principles of General Chemistry	6.00
ENV:111*	Environmental Science	4.00
ENV:139	Energy and the Environment	4.00
PHS:120	Exploring Physical Science	4.00
PHS:152	Astronomy	4.00
PHS:166	Meteorology: Weather and Climate	4.00
PHS:172	Physical Geology	4.00
PHY:110	Survey of Physics I	3.00
PHY:162	College Physics I	4.00
PHY:212	Classical Physics I	5.00

* ENV:111 Environmental Science can fulfill either the Life Scienes or the Physical Sciences requirement, but not both.

Note: Requirements continue on next page.

Mathematics (3 credits required)

MAT:110	Math for Liberal Arts	3.00
MAT:117	Math for Elementary Teachers*	3.00
MAT:128	Precalculus	4.00
MAT:140	Finite Mathematics	3.00
MAT:156	Statistics	3.00
MAT:165	Business Calculus	3.00
MAT:210	Calculus I	4.00

* Only students majoring in Elementary Education may select this course option.

Computer Skills (3 credits or demonstrated proficiency* required)

CSC:107	Computer Literacy	3.00
CSC:110	Introduction to Computers	3.00

* To demonstrate proficiency, students would need to complete the Computer Skills Proficiency Exam with a passing score.

Electives (Up to 19 credits required)

19.00

AA Total **62.00**

Electives

Students should choose electives according to their needs and interests and the requirements of their intended transfer college to complete the 62 credit hours required of an Associate of Arts Degree. While electives generally are chosen from any Arts and Science course numbered above 100, a maximum of 16 credit hours in career technical courses may be applied toward an AA. A maximum of four credit hours of Human Development courses may be applied toward an AA degree.

Concentration Electives

To complete an Associate Degree within a specific concentration, choose electives from at or above the 100 level courses in one of the following areas: Agriculture; Banking; Biology; Business Administration/ Accounting; Chemistry; Computer Science; Conservation; Criminal Justice; Education; English; Fine Arts - Art, Drama and Music; History; Journalism; Management and Supervision; Marketing/Sales/Retailing; Mathematics; Physical Education/ Recreation; Physics; Political Science; Pre-Chiropractic; Pre-Engineering; Pre-Health Professional; Pre-Law; Psychology; Social Work; Sociology; Speech.

GENERAL EDUCATION REQUIREMENTS - AS DEGREE

All students pursuing an Associate of Science degree must fulfill general education requirements as outlined here. The courses that will fulfill these requirements are listed below.

Communications (9 credits required)

Select one course in English: Credits

ENG:105	Composition I	3.00
ENG:107	Composition I: Technical Writing	3.00

Select one course in English:

ENG:106	Composition II	3.00
ENG:108	Composition II: Technical Writing	3.00

Select one course in Speech:

SPC:112	Public Speaking	3.00
SPC:170	Professional Communication	3.00

Arts and Humanities (6 credits required)

Select one course from any two of the following three categories:

Literature:

LIT:101	Introduction to Literature	3.00
LIT:111	American Literature since the Mid–1800's	3.00
LIT:130	African American Literature	3.00
LIT:135	Film as Literature	3.00
LIT:185	Contemporary Literature	3.00

Humanities:

DRA:110*	Introduction to Film	3.00
HUM:110	Changes and Choices	3.00
HUM:183	Living with Space, Time & Tech.	3.00
PHI:101	Introduction to Philosophy	3.00
PHI:105	Introduction to Ethics	3.00
PHI:110	Introduction to Logic	3.00
REL:101	Survey of World Religions	3.00

Fine Arts: Credits

ART:101	Art Appreciation	3.00
DRA:101	Introduction to Theatre	3.00
DRA:110*	Introduction to Film	3.00
HUM:135	Humanities of the Early World	3.00
HUM:136	Humanities of the Renaissance	3.00
HUM:137	Humanities of the Modern World	3.00
MUS:100	Music Appreciation	3.00

* DRA:110 Introduction to Film can fulfill either the Humanities or the Fine Arts requirement, but not both.

Cultural/Historical Perspectives (3 credits required)

Select one course:

ANT:105	Cultural Anthropology	3.00
CLS:150	Latin Am. History and Culture	3.00
FL_:___	Foreign Language – One Semester	3.00–4.00
GEO:121	World Regional Geography	3.00
GLS:100	Contemporary World Issues	3.00
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00

HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History since 1877	3.00
HIS:211	Modern Asian History	3.00
HIS:231	Contemporary World Affairs	3.00

Social Sciences (3 credits required)

Select one course:

ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

Mathematics & Natural Sciences (24 credits required)

Select at least two Natural Sciences courses: Credits

BIO:105	Introductory Biology	4.00
BIO:114	General Biology IA	4.00
BIO:115	General Biology IIA	4.00
BIO:125	Plant Biology	4.00
BIO:157	Human Biology	4.00
BIO:163	Essenials of Anatomy and Physiology	4.00
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
BIO:186	Microbiology	4.00
BIO:255	Neuroanatomy	3.00
CHM:122	Introduction to General Chemistry	4.00
CHM:132	Introduction to Organic and Biochemistry	4.00
CHM:165	General Chemistry I	4.00
CHM:166	General Chemistry I	5.00
CHM:175	General Chemistry II	4.00
CHM:176	General Chemistry II	5.00
CHM:179	Principles of General Chemistry	6.00
CHM:261	Organic Chemistry I	4.00
CHM:263	Organic Chemistry I	5.00
CHM:271	Organic Chemistry II	4.00
CHM:273	Organic Chemistry II	5.00
ENV:111	Environmental Science	4.00
ENV:139	Energy and the Environment	4.00
ENV:145	Conservation Biology	4.00
PHS:120	Exploring Physical Science	4.00
PHS:152	Astronomy	4.00
PHS:166	Meteorology: Weather & Climate	4.00
PHS:172	Physical Geology	4.00
PHY:110	Survey of Physics I	3.00
PHY:111	Survey of Physics II	3.00
PHY:162	College Physics I	4.00
PHY:172	College Physics II	4.00
PHY:212	Classical Physics I	5.00
PHY:222	Classical Physics II	5.00

Note: Requirements continue on next page.

GENERAL EDUCATION REQUIREMENTS - AS DEGREE

Select at least one Mathematics course:

MAT:128	Precalculus	4.00
MAT:140	Finite Mathematics	3.00
MAT:156	Statistics	3.00
MAT:165	Business Calculus	3.00
MAT:210	Calculus I	4.00
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
MAT:227	Differential Equations	4.00

Computer Skills
(3 credits or demonstrated proficiency* required)

CSC:110	Introduction to Computers	3.00

* To demonstrate proficiency, students would need to complete the Computer Skills Proficiency Exam with a passing score.

Electives (Up to 17 credits required)

17.00

AS Total **62.00**

Electives

Students should choose electives according to their needs, interests and the requirements of their intended transfer college, to complete the 62 credit hours required of an Associate of Science Degree. While electives generally are chosen from any Arts and Science course numbered above 100, a maximum of 16 career technical education credit hours may be applied toward an AS Additionally, no more than four credit hours of Human Development courses may be applied toward an AS degree.

Concentration Electives

To complete an Associates in Science Degree within a specific concentration, choose electives at or above the 100 level courses in one of the following areas: Agriculture, Biology, Chemistry, Chemistry Laboratory Processes, Computer Science, Conservation, Mathematics, Physics, Pre-Chiropractor, Pre-Health Professional.

GENERAL EDUCATION REQUIREMENTS - AS IN PRE-ENGINEERING

Students pursuing an Associate of Science in Pre-Engineering degree must fulfill general education requirements as outlined here. The courses that will fulfill these requirements are listed below.

Communications (9 credits required)

Select one of these courses:

		Credits
ENG:105	Composition I	3.00
ENG:107	Composition I: Technical Writing	3.00

Select one of these courses:

ENG:106	Composition II	3.00
ENG:108	Composition II: Technical Writing	3.00

Select one of these courses:

SPC:112	Public Speaking	3.00
SPC:170	Professional Communication	3.00

Arts and Humanities (3 credits required)

Select one of these courses:

ART:101	Art Appreciation	3.00
LIT:101	Introduction to Literature	3.00
MUS:100	Music Appreciation	3.00
PHI:101	Introduction to Philosophy	3.00
PHI:105	Introduction to Ethics	3.00
REL:101	Survey of World Religions	3.00

Cultural/Historical Perspectives (3 credits required)

Select one of these courses:

ANT:105	Cultural Anthropology	3.00
FL_:___*	Foreign Language – One Semester	3.00–4.00
	(FL_:___ is recommended if it was not taken in high school)	
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History since 1877	3.00

Social Sciences (3 credits required)

Select one of these courses:

ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
	(ECN:130 is recommended for this category)	
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

Natural Sciences (15 credits required)

Select these three courses:

CHM:166	General Chemistry I	5.00
PHY:212	Classical Physics I	5.00
PHY:222	Classical Physics II	5.00

Mathematics (16 credits required)

Select these four courses:

		Credits
MAT:210	Calculus I	4.00
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
MAT:227	Differential Equations	4.00

Computer Skills (3 credits)

Select one of these courses:

CIS:121	Introduction to Programming Logic	3.00
CIS:161	C++	3.00
CIS:170	Java	3.00
CSC:110	Introduction to Computers	3.00

Electives (10-13 credits required)

Students should choose electives according to their needs, interests and the requirements of their intended transfer college, to complete the 62 credit hours required of an Associate of Science in Pre-Engineering degree. While electives generally are chosen from any Arts and Science course numbered above 100, a maximum of 11 career and technical education credit hours may be applied toward this AS degree. Additionally, no more than 4 credit hours of Human Development courses may be applied toward an AS degree.

Check the requirements for your intended degree at your transfer school before making your choices.

Recommended electives:

		Credits
BIO:114	General Biology IA	4.00
BIO:115	General Biology IIA	4.00
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
CAD:286	SolidWorks – Modeling	3.00
CHM:175	General Chemistry II	4.00
CHM:176	General Chemistry II	5.00
CHM:261	Organic Chemistry I	4.00
CHM:271	Organic Chemistry II	4.00
EGR:160	Engineering I	3.00
EGR:180	Statics	3.00
EGR:280	Dynamics	3.00
EGR:285	Introduction to Electrical Science	3.00
EGR:290	Thermodynamics	3.00
EGR:380	Mechanics of Deformable Bodies	3.00
FL__:___	Foreign Language – One Semester	3.00–4.00
	(2nd semester of FL__:__ is recommended if it was not taken in high school)	
MAT:156	Statistics	3.00
MFG:505	Lean Manufacturing	1.00

AS Total **62.00**

AGRICULTURE

CAMPUS MUSCATINE COMMUNITY COLLEGE

DEGREE ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE

AA/AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 46-49 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Communications:		Credits
SPC:112	Public Speaking	3.00
Social Sciences:		
ECN:130	Principles of Microeconomics	3.00
Natural Sciences:		
BIO:114	General Biology IA	4.00
CHM:122	Introduction to General Chemistry	4.00
Mathematics:		
MAT:140	Finite Math	3.00

CONCENTRATION ELECTIVES CONCENTRATION ELECTIVES CONCENTRATION ELECTIVES CONCENTRATION ELECTIVES CONCENTRATION ELECTIVES CONCENTRATION ELECTIVES CONCENTRATION ELECTIVES

Agriculture requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Strongly Recommended Electives:		Credits
AGA:285	Crop Protection	3.00
AGA:349	Fertilizers	1.50
AGA:351	Soil Science	1.50
AGA:881	Grain Science	1.75
AGB:231	Futures and Options	1.50
AGB:232	Livestock and Grain Marketing	3.00
AGS:119	Livestock Management	2.00
AGS:180	Sheep Production	1.50
AGS:315	Principles of Animal Nutrition	3.00
AGS:401	Swine Production	3.00
AGS:410	Swine Production II	1.50
AGS:554	Beef Production	3.00
AGS:881	Feeds	1.75

BANKING

CAMPUS CLINTON, MUSCATINE, & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 46-47 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Social Sciences:		Credits
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
Math:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Banking requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
ACC:142	Financial Accounting	3.00
ACC:146	Managerial Accounting	3.00
ACC:221	Cost Accounting	3.00
BUS:180	Business Ethics	3.00
BUS:185	Business Law I	3.00
FIN:106	AIB Principles of Banking	3.00
FIN:121	Personal Finance	3.00
FIN:130	Principles of Finance	3.00

BIOLOGY

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 46–47 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences: Life		Credits
BIO:114	General Biology IA	4.00
Natural Sciences: Physical		
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
Mathematics:		
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:107	Computer Literacy OR	3.00
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES
Biology requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
BIO:115	General Biology IIA	4.00
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II OR	5.00
CHM:132	Introduction to Organic and Biochemistry OR	4.00
CHM:261	Organic Chemistry I OR	4.00
CHM:263	Organic Chemistry I	5.00
PHY:162	College Physics I	4.00
PHY:172	College Physics II	4.00
MAT:156	Statistics	3.00

BIOLOGY

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 46–47 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
BIO:114	General Biology IA	4.00
BIO:115	General Biology IIA	4.00
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II	5.00
CHM:261	Organic Chemistry I OR	4.00
CHM:263	Organic Chemistry I	5.00

Mathematics:		Credits
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES
Biology requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
MAT:156	Statistics	3.00
PHY:162	College Physics I AND	4.00
PHY:172	College Physics II OR	4.00
PHY:212	Classical Physics I AND	5.00
PHY:222	Classical Physics II	5.00

BUSINESS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Mathematics:		Credits
Check with your transfer institution for which math course you will need		
MAT:140	Finite Math OR	3.00
MAT:156	Statistics OR	3.00
MAT:165	Business Calculus OR	3.00
MAT:210	Calculus I	4.00
Social Sciences:		
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00

CONCENTRATION ELECTIVES

Business requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
ACC:142	Financial Accounting	3.00
ACC:146	Managerial Accounting	3.00
BUS:102	Introduction to Business	3.00
BUS:185	Business Law I	3.00
BUS:210	Business Statistics	3.00
FIN:130	Principles of Finance	3.00
MGT:101	Principles of Management	3.00
MKT:110	Principles of Marketing	3.00

CHEMISTRY

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences: Physical		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
Mathematics:		
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:107	Computer Literacy OR	3.00
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Chemistry requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II	5.00
CHM:261	Organic Chemistry I OR	4.00
CHM:263	Organic Chemistry I	5.00
CHM:271	Organic Chemistry II OR	4.00
CHM:273	Organic Chemistry II	5.00
MAT:216	Calculus II	4.00
MAT:219	Calculus II	4.00
PHY:162	College Physics I AND	4.00
PHY:172	College Physics II OR	4.00
PHY:212	Classical Physics I AND	5.00
PHY:222	Classical Physics II	5.00

CHEMISTRY

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II	5.00
CHM:261	Organic Chemistry I OR	4.00
CHM:263	Organic Chemistry I	5.00
CHM:271	Organic Chemistry II OR	4.00
CHM:273	Organic Chemistry II	5.00

Mathematics:		Credits
MAT:210	Calculus I	4.00
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Chemistry requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
PHY:162	College Physics I AND	4.00
PHY:172	College Physics II OR	4.00
PHY:212	Classical Physics I AND	5.00
PHY:222	Classical Physics II	5.00

CHEMISTRY LABORATORY PROCESSES

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
BIO:114	General Biology IA	4.00
CHM:166	General Chemistry I	5.00
Mathematics:		
MAT:121	College Algebra	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

Communications:		Credits
ENG:107	Composition I: Technical Writing	3.00
ENG:108	Composition II: Technical Writing	3.00
SPC:112	Public Speaking	3.00
Humanities:		
PHI:105	Introduction to Ethics	3.00
Fine Arts:		
MUS:100	Music Appreciation	3.00
Social Sciences:		
ECN:130	Principles of Microeconomics	3.00
SOC:110	Introduction to Sociology	3.00

CONCENTRATION ELECTIVES

Chemistry Laboratory Processes requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
BIO:115	General Biology IIA	4.00
BIO:186	Mircrobiology	4.00
BUS:106	Employment Strategy	3.00
BUS:161	Human Relations	3.00
CHM:132	Introduction to Organic and Biochemistry	4.00
CHM:176	General Chemistry II	4.00
SOC:115	Social Problems	3.00
SOC:261	Human Sexuality	3.00

CONSERVATION

CAMPUS MUSCATINE COMMUNITY COLLEGE

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

TERM 1		Credits
BIO:114	General Biology I	4.00
CNS:105	Conservation	2.00
CNS:150	Occupations in Conservation	1.00
ENG:105	Composition I	3.00
ENV:111	Environmental Science	4.00
		14.00

TERM 2		
BIO:115	General Biology II	4.00
BIO:226	Local Flora	3.00
CNS:137	Fisheries Management	2.00
ENG:106	Composition II	3.00
___:___	Cultural/Historical Perspectives	3.00
		15.00

TERM 3		Credits
CNS:901	Wilderness Experience	2.00
ENV:949	Special Topics	1.00–3.00
		3.00–5.00

TERM 4		
___:___	Arts/Humanities	3.00
BIO:133	Ecology	3.00
BIO:134	Ecology Lab	1.00
CHM:122	Introduction to Chemistry	4.00
PHS:173	Physical Geology	4.00
		15.00

TERM 5		
___:___	Arts/Humanities	3.00
CNS:109	Wildlife Ecology	3.00
MAT:156	Statistics	3.00
POL:111	American National Government OR	3.00
PSY:111	Introduction to Psychology	3.00
SPC:112	Public Speaking	3.00
		15.00

AS Total...**62.00-65.00**

CRIMINAL JUSTICE

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Cultural/Historical Perspectives:		Credits
HIS:152	U.S. History since 1877	3.00
Social Sciences:		
POL:111	American National Government	3.00
SOC:110	Introduction to Sociology	3.00
Mathematics:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Criminal Justice requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
CRJ:100	Introduction to Criminal Justice	3.00
CRJ:118	Law Enforcement	3.00
CRJ:120	Introduction to Corrections	3.00
CRJ:130	Criminal Law	3.00
CRJ:141	Criminal Investigation	3.00
CRJ:142	Criminalistics	3.00
CRJ:200	Criminology	3.00
CRJ:201	Juvenile Delinquency	3.00
CRJ:230	Evidence	3.00
CRJ:295	Contemporary Issues in Criminal Justice	3.00
SOC:115	Social Problems	3.00

EDUCATION

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Communications:		Credits
ENG:105	Composition I	3.00
ENG:106	Composition II	3.00
SPC:112	Public Speaking	3.00
Cultural/Historical Perspectives:		
GEO:121	World Regional Geography	3.00
HIS:151	U.S. History to 1877 OR	3.00
HIS:152	U.S. History since 1877	3.00
Social Sciences:		**Credits**
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00

Science:		
___:___	Biology lab course	4.00
Math:		
MAT:110	Math for Liberal Arts OR	3.00
MAT:117	Math for Elementary Teachers*	3.00

*Only students majoring in elementary education may select this course option.

CONCENTRATION ELECTIVES

Education requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
EDU:110	Exploring Teaching	3.00
EDU:212	Educational Foundations	3.00
EDU:220	Human Relations for the Classroom	3.00
EDU:235	Children's Literature	3.00
EDU:245	Exceptional Learner	3.00
EDU:255	Technology in the Classroom	3.00
PSY:121	Developmental Psychology	3.00
PSY:222	Child Psychology OR	3.00
PSY:224	Adolescence Psychology	3.00
PSY281	Educational Psychology	3.00

ENGLISH

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Communications:		Credits
ENG:105	Composition I	3.00
ENG:106	Composition II	3.00
SPC:112	Public Speaking	3.00
Arts and Humanities:		
LIT:101	Introduction to Literature	3.00
PHI:101	Introduction to Philosophy	3.00

Cultural/Historical Perspectives:		
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
Computer Skills:		**Credits**
CSC:107	Computer Literacy OR	3.00
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

English requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
Choose a minimum of three courses		
ENG:221	Creative Writing	3.00
ENG:230	Creative Writing: Fiction	3.00
ENG:238	Creative Writing: Non–Fiction	3.00
LIT:110	American Literature to Mid–1800's	3.00
LIT:111	American Literature since Mid–1800's	3.00
LIT:183	Masterpieces: Neoclassical to Modern	3.00
LIT:185	Contemporary Literature	3.00
LIT:200	Studies in Literary Form	3.00
FL_:___	Foreign Language – Two Semesters	8.00

ENVIRONMENTAL SCIENCE

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences: Life		Credits
ENV:111	Environmental Science	4.00
Natural Sciences: Physical		
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
Mathematics:		
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Environmental Science requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
BIO:114	General Biology IA	4.00
CHM:132	Introduction to Organic & Biochemistry	4.00
PHS:172	Physical Geology	4.00
PHY:162	College Physics I OR	4.00
PHY:212	Classical Physics I	5.00
MAT:156	Statistics	3.00
MAT:216	Calculus II	4.00

ENVIRONMENTAL SCIENCE

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
BIO:114	General Biology IA	4.00
CHM:132	Introduction to Organic and Biochemistry	4.00
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
ENV:111	Environmental Science	4.00
PHS:172	Physical Geology	4.00

Mathematics:		Credits
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Environmental Science requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
PHY:162	College Physics I OR	4.00
PHY:212	Classical Physics I	5.00
MAT:156	Statistics	3.00
MAT:216	Calculus II	4.00

FINE ARTS - ART

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Arts and Humanities		Credits
ART:101	Art Appreciation	3.00
PHI:101	Introduction to Philosophy	3.00
Cultural/Historical Perspectives:		
HIS:117	Western Civilization I: Ancient and Medieval OR	3.00
HIS:118	Western Civilization II: Early Modern OR	3.00
HIS:119	Western Civilization III: The Modern Period	3.00

CONCENTRATION ELECTIVES
Fine Arts requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
ART:120	2–D Design	3.00
ART:133	Drawing	3.00
ART:143	Painting	3.00
ART:157	Printmaking	3.00
ART:163	Sculpture	3.00
ART:173	Ceramics	3.00
ART:203	Art History I	3.00
ART:204	Art History II	3.00

FINE ARTS - DRAMA

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Communications:		Credits
SPC:112	Public Speaking	3.00
Arts and Humanities:		
PHI:101	Introduction to Philosophy	3.00
ART:101	Art Appreciation	3.00
DRA:101	Introduction to Theatre	3.00

CONCENTRATION ELECTIVES
Fine Arts requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
DRA:130	Acting I	3.00
DRA:131	Acting II OR	2.00
DRA:132	Acting II	3.00
DRA:136	Rehearsal and Performance OR	2.00
DRA:137	Rehearsal and Performance	3.00
DRA:172	Technical Theatre Lab OR	2.00
DRA:173	Technical Theatre Lab	3.00
DRA:237	Acting Lessons	1.00
DRA:250	Directing	3.00
SPC:122	Interpersonal Communication	3.00

FINE ARTS - MUSIC

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45-48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Arts and Humanities:		Credits
PHI:101	Introduction to Philosophy	3.00
MUS:100	Music Appreciation	3.00

CONCENTRATION ELECTIVES

Fine Arts requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
MUA:101	Applied Voice	1.00
MUA:120	Applied Piano	1.00
MUA:147	Applied Instrumental	1.00
MUS:120	Music Theory I	4.00
MUS:123	Music Theory II	4.00
MUS:147	College Community Orchestra	2.00
MUS:151	Pop Singers	1.00
MUS:154	Chorus	1.00
MUS:158	Civic Chorale	1.00
MUS:222	Music Theory III	4.00
MUS:223	Music Theory IV	4.00

HISTORY

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45-48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Cultural/Historical Perspectives:		Credits
HIS:151	U.S. History to 1877	3.00
Social Sciences:		
POL:111	American National Government	3.00
SOC:110	Introduction to Sociology	3.00

CONCENTRATION ELECTIVES

History requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
FL_:___	Foreign Language - Two Semesters	8.00
ECN:110	Introduction to Economics	3.00
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:152	U.S. History since 1877	3.00

JOURNALISM/ COMMUNICATION

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Communications:		Credits
SPC:112	Public Speaking	3.00
Social Sciences:		
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

Computer:		Credits
CSC:107	Computer Literacy OR	3.00
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES
Journalism/Communication requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
COM:140	Introduction to Mass Media	3.00
JOU:120	Beginning Newswriting	3.00
JOU:123	Intermediate Newswriting	3.00
JOU:941	Practicum in Communication	1.00–3.00

LIBERAL ARTS

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE
The Liberal Arts Concentration Area provides a solid foundation for successful transfer to four–year educational institutions. If you are undecided about a program of study, an academic advisor or counselor can assist you in your decision.

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed below according to your goals and interests and the requirements of your intended transfer institution.

COMMUNICATIONS (9 credits required)
Select one of these courses:		Credits
ENG:105	Composition I	3.00
ENG:107	Composition I: Technical Writing	3.00
Select one of these courses:		
ENG:106	Composition II	3.00
ENG:108	Composition II: Technical Writing	3.00
Select one of these courses:		
SPC:112	Public Speaking	3.00
SPC:170	Professional Communication	3.00

ARTS AND HUMANITIES (9 credits required)
Select one Literature course:		Credits
LIT:101	Introduction to Literature	3.00
LIT:111	American Literature since Mid–1800's	3.00
LIT:183	Masterpieces: Neoclassical to Modern	3.00
LIT:185	Contemporary Literature	3.00
Select one Humanities course:		
DRA:110*	Introduction to Film	3.00
HUM:110	Changes and Choices	3.00
HUM:183	Living with Space, Time and Technology	3.00
PHI:101	Introduction to Philosophy	3.00
PHI:105	Introduction to Ethics	3.00
PHI:110	Introduction to Logic	3.00
REL:101	Survey of World Religions	3.00

Select one course in the Fine Arts: **Credits**

ART:101	Art Appreciation	3.00
DRA:101	Introduction to Theatre	3.00
DRA:110*	Introduction to Film	3.00
HUM:135	Humanities of the Early World	3.00
HUM:136	Humanities of the Renaissance	3.00
HUM:137	Humanities of the Modern World	3.00
MUS:100	Music Appreciation	3.00

Select one course in the Fine Arts: **Credits**

ART:101	Art Appreciation	3.00
DRA:101	Introduction to Theatre	3.00
DRA:110*	Introduction to Film	3.00
HUM:135	Humanities of the Early World	3.00
HUM:136	Humanities of the Renaissance	3.00
HUM:137	Humanities of the Modern World	3.00
MUS:100	Music Appreciation	3.00

* DRA:110 may be counted as either Humanities or Fine Arts, but not both.

CULTURAL/HISTORICAL PERSPECTIVES (6 credits required)

Select one course from the Western perspective: **Credits**

HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History since 1877	3.00

Select one course from an Intercultural perspective or language:

ANT:105	Cultural Anthropology	3.00
ASL:151	American Sign Language 1	5.00
CLS:150	Latin American History and Culture	3.00
FL_:___	Foreign Language – One Semester	3.00–4.00
GEO:121	World Regional Geography	3.00
GLS:100	Contemporary World Issues	3.00
GLS:120	Education Experience Abroad	1.00–3.00
HIS:211	Modern Asia History	3.00
HIS:231	Contemporary World Affairs	3.00

SOCIAL SCIENCES (6 credits required)

Select one Economics or Political Science course: **Credits**

ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
POL:111	American National Government	3.00

Select one Psychology or Sociology course:

PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

NATURAL SCIENCES (8 credits required)

Select one course in the Life Sciences: **Credits**

BIO:105	Introductory Biology	4.00
BIO:114	General Biology IA	4.00
BIO:125	Plant Biology	4.00
BIO:157	Human Biology	4.00
BIO:163	Essentials of Anatomy and Physiology	4.00
BIO:168	Human Anatomy and Physiology I	4.00
ENV:111*	Environmental Science	4.00
ENV:145	Conservation Biology	4.00

Select one course in the Physical Sciences:

CHM:122	Introduction to General Chemistry	4.00
CHM:165	General Chemistry I	4.00
CHM:166	General Chemistry I	5.00
CHM:179	Principles of General Chemistry	6.00
PHY:110	Survey of Physics I	3.00
PHY:162	College Physics I	4.00
PHY:212	Classical Physics I	5.00
PHS:120	Exploring Physical Science	4.00
PHS:152	Astronomy	4.00
PHS:166	Meteorology: Weather and Climate	4.00
PHS:172	Physical Geology	4.00
ENV:111*	Environmental Science	4.00
ENV:139	Energy and the Environment	4.00

* ENV:111 may be counted as either Life Sciences or Physical Science, but not both.

MATHEMATICS (3 credits required)

Select one of these courses: **Credits**

MAT:110	Math for Liberal Arts	3.00
MAT:117	Math for Elementary Teachers*	3.00
MAT:128	Precalculus	4.00
MAT:140	Finite Math	3.00
MAT:156	Statistics	3.00
MAT:165	Business Calculus	3.00
MAT:210	Calculus I	4.00

* Only students majoring in elementary education may select this course option.

COMPUTER SKILLS (3 credits or demonstrated proficiency* required)

Select one of these courses: **Credits**

CSC:107	Computer Literacy	3.00
CSC:110	Introduction to Computers	3.00

* To demonstrate proficiency, students would need to complete the Computer Skills Proficiency Exam with a passing score.

ELECTIVES (Up to 19 credits required)

Students choose electives according to their needs and interests and the requirements of their intended transfer college to complete the 62 credit hours required of an Associate of Arts degree. While electives generally are chosen from any Arts and Science course numbered above 100, a maximum of 16 credit hours in career technical courses may be applied toward an AA. A maximum of four credit hours of Human Development courses may be applied toward an AA degree.

MANAGEMENT

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Social Sciences:		Credits
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
Mathematics:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES
Management and Supervision requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Strongly Recommended Electives:		Credits
ACC:142	Financial Accounting	3.00
ACC:146	Managerial Accounting	3.00
BUS:102	Introduction to Business	3.00
BUS:180	Business Ethics	3.00
BUS:185	Business Law I	3.00
MGT:101	Principles of Management	3.00
MGT:110	Small Business Management	3.00
MKT:110	Principles of Marketing	3.00

MARKETING

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS
Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Social Sciences:		Credits
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
Mathematics:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES
Marketing/Sales/Retailing requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Strongly Recommended Electives:		Credits
ACC:142	Financial Accounting	3.00
ACC:146	Managerial Accounting	3.00
BUS:102	Introduction to Business	3.00
BUS:180	Business Ethics	3.00
BUS:185	Business Law I	3.00
MKT:110	Principles of Marketing	3.00
MKT:140	Principles of Selling	3.00
MKT:150	Principles of Advertising	3.00

MATHEMATICS

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE

AA/AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
PHY:212	Classical Physics I	5.00
Mathematics:		
MAT:156	Statistics	3.00
MAT:210	Calculus I	4.00

CONCENTRATION ELECTIVES

Mathematics requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
MAT:227	Differential Equations	4.00

PHYSICAL EDUCATION/ RECREATION

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

CONCENTRATION ELECTIVES

Physical Education/Recreation requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
EDU:110	Exploring Teaching	3.00
EDU:212	Educational Foundations	3.00
PSY:281	Educational Psychology	3.00

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Cultural/Historical Perspectives:		Credits
HIS:151	U.S. History to1877	3.00
Social Sciences:		
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
Natural Sciences:		
BIO:168	Human Anatomy and Physiology I	4.00

PHYSICAL SCIENCE

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences: Physical		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
Mathematics:		
MAT:128	Precalculus OR	4.00
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Physical Science requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II	5.00
MAT:216	Calculus II	4.00
PHS:152	Astronomy	4.00
PHS:166	Meteorology Weather and Climate	4.00
PHS:172	Physical Geology	4.00
PHY:162	College Physics I	4.00
PHY:172	College Physics II	4.00

PHYSICAL SCIENCE

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II	5.00
PHS:172	Physical Geology	4.00
PHY:162	College Physics I	4.00
PHY:172	College Physics II	4.00

Mathematics:		Credits
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Physical Science requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
MAT:216	Calculus II	4.00

PHYSICS

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences: Physical		Credits
PHY:212	Classical Physics I	5.00
Mathematics:		
MAT:210	Calculus I	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Physics requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemistry II	5.00
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
PHY:222	Classical Physics II	5.00

PHYSICS

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF SCIENCE

AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
PHY:212	Classical Physics I	5.00
PHY:222	Classical Physics II	5.00
Mathematics:		
MAT:210	Calculus I	4.00
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
Computer Skills:		
CSC:110	Introduction to Computers	3.00

CONCENTRATION ELECTIVES

Physics requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemstry II	5.00

POLITICAL SCIENCE

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Cultural/Historical Perspectives:		Credits
HIS:152	U.S. History since 1877	3.00
Social Sciences:		
POL:111	American National Government	3.00
SOC:110	Introduction to Sociology	3.00
Mathematics:		**Credits**
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Political Science requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
ECN:120	Principles of Macroeconomics	3.00
POL:112	American State and Local Government	3.00
PSY:111	Introduction to Psychology	3.00

PRE-CHIROPRACTIC

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE

AA/AS DEGREE

Through a Joint 2 + 2 Transfer Program agreement between EICC and Palmer College of Chiropractic, students complete the coursework necessary to meet the admission requirements established by the Palmer College of Chiropractic while earning an Associate of Arts degree. For more information and to complete a 2 + 2 Joint Admission Program application, please see an academic advisor at Clinton, Muscatine or Scott Community Colleges.

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
BIO:114	General Biology IA	4.00
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I OR	5.00
CHM:179	Principles of General Chemistry	6.00

Mathematics:		Credits
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Pre-Chiropractic requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
BIO:163	Essentials of Anatomy and Physiology	4.00
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
BIO:255	Neuroanatomy	3.00
CHM:175	General Chemistry II (if not CHM:179)	4.00
CHM:176	General Chemistry II (if not CHM:179)	5.00
CHM:261	Organic Chemistry I OR	4.00
CHM:263	Organic Chemistry I AND	5.00
CHM:271	Organic Chemistry II OR	4.00
CHM:273	Organic Chemistry II	5.00
PHY:110	Survey of Physics I AND	3.00
PHY:111	Survey of Physics II OR	3.00
PHY:162	College Physics I AND	4.00
PHY:172	College Physics II	4.00

PRE-ENGINEERING

CAMPUS   CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE   ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE

AS DEGREE

Note that engineering requirements vary considerably, depending on both the specialty and the transfer institution you select. It is important to plan your selection carefully with both an Eastern Iowa Community Colleges advisor and your intended transfer institution.

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 49–50 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Mathematics:		Credits
MAT:210	Calculus I	4.00
MAT:216	Calculus II	4.00
MAT:219	Calculus III	4.00
MAT:227	Differential Equations	4.00

Chemistry:		Credits
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
Physics:		
PHY:212	Classical Physics I	5.00
PHY:222	Classical Physics II	5.00

CONCENTRATION ELECTIVES

Pre-Engineering requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
EGR:180	Engineering Statics	3.00
EGR:280	Dynamics	3.00
EGR:285	Introduction to Electrical Science	3.00
EGR:290	Thermodynamics	3.00
EGR:380	Mechanics of Deformable Bodies	3.00
PSY:111	Introduction to Psychology	3.00
SOC:115	Social Problems	3.00

PRE-HEALTH PROFESSIONAL

CAMPUS   CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE   ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE

AA/AS DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Natural Sciences:		Credits
BIO:114	General Biology IA	4.00
CHM:165	General Chemistry I OR	4.00
CHM:166	General Chemistry I	5.00
Mathematics:		
MAT:140	Finite Math OR	3.00
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Pre-Health Professional requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
BIO:115	General Biology IIA	4.00
BIO:151	Nutrition	3.00
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
BIO:186	Microbiology	4.00
CHM:175	General Chemistry II OR	4.00
CHM:176	General Chemsitry II	5.00
CHM:261	Organic Chemistry I OR	4.00
CHM:263	Organic Chemistry I	5.00
CHM:271	Organic Chemistry II OR	4.00
CHM:273	Organic Chemistry II	5.00
MAT:156	Statistics	3.00
PHY:162	College Physics I	4.00
PHY:172	College Physics II	4.00

PRE-LAW

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Cultural/Historical Perspectives:		Credits
HIS:151	U.S. History to 1877	3.00
Social Sciences:		
POL:111	American National Government	3.00
SOC:110	Introduction to Sociology	3.00

CONCENTRATION ELECTIVES

Pre-Law requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
ECN:120	Principles of Macroeconomics	3.00
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:152	U.S. History since 1877	3.00
PSY:111	Introduction to Psychology	3.00

PSYCHOLOGY

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Social Sciences:		Credits
PSY:111	Introduction to Psychology	3.00
Natural Sciences: Life		
BIO:114	General Biology IA OR	4.00
BIO:105	Introduction to Biology	4.00
Mathematics:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Psychology requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
BIO:114	General Biology IA OR	4.00
BIO:157	Human Biology	4.00
PSY:121	Developmental Psychology	3.00
SOC:110	Introduction to Sociology	3.00

Other Psychology or Sociology electives as recommended by advisors.

SOCIAL WORK

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Cultural/Historical Perspectives:		Credits
HIS:117	Western Civilization I: Ancient and Medieval OR	3.00
ANT:105	Cultural Anthropology	3.00
Social Sciences:		
POL:111	American National Government	3.00
SOC:110	Introduction to Sociology	3.00
Mathematics:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Social Work requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
ECN:120	Principles of Macroeconomics	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:152	U.S. History since 1877	3.00
PSY:111	Introduction to Psychology	3.00
SOC:115	Social Problems	3.00
SOC:160	Introduction to Social Work	3.00

SOCIOLOGY

CAMPUS CLINTON, MUSCATINE & SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF ARTS

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:
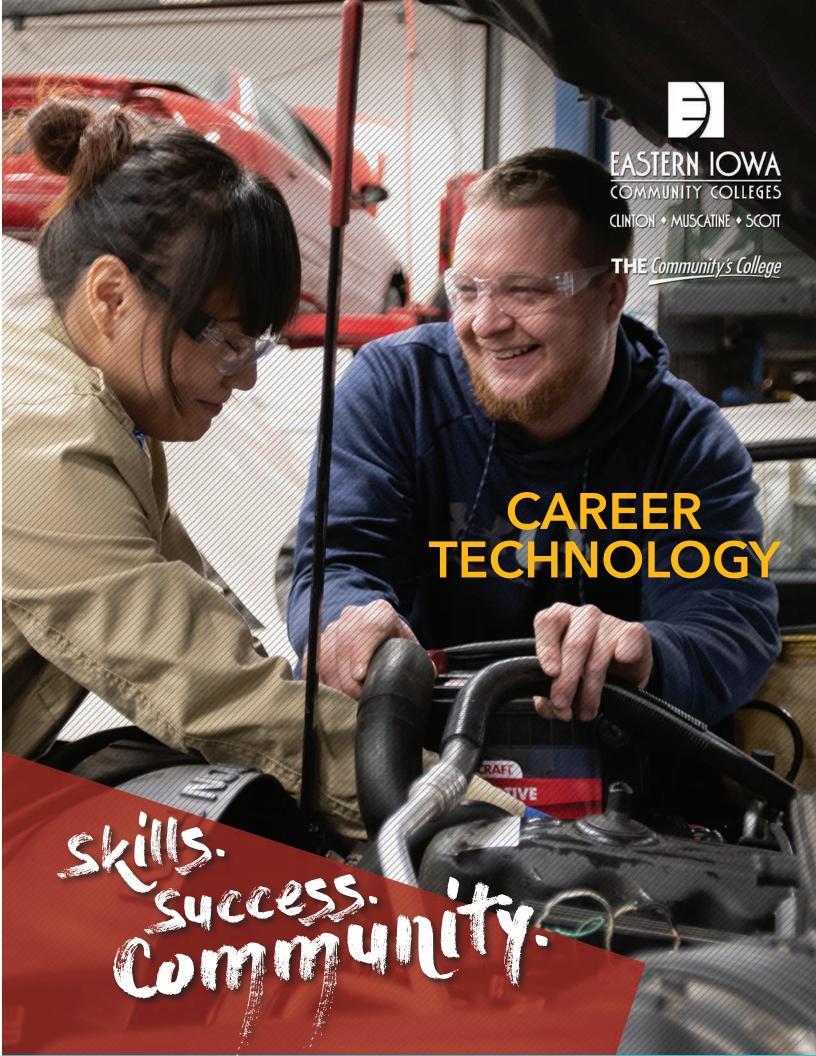
Cultural/Historical Perspectives:		Credits
HIS:117	Western Civilization I: Ancient and Medieval OR	3.00
ANT:105	Cultural Anthropology	3.00
Social Sciences:		
POL:111	American National Government	3.00
SOC:110	Introduction to Sociology	3.00
Mathematics:		
MAT:156	Statistics	3.00

CONCENTRATION ELECTIVES

Sociology requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
ECN:120	Principles of Macroeconomics	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:152	U.S. History since 1877	3.00
PSY:111	Introduction to Psychology	3.00
SOC:115	Social Problems	3.00

SPEECH

AA DEGREE

GENERAL EDUCATION REQUIREMENTS

Choose from the General Education Curriculum listed on pages 45–48 according to your goals and interests and the requirements of your intended transfer institution. The recommended General Education courses for this concentration include the following:

Communications:		Credits
SPC:112	Public Speaking	3.00
Arts and Humanities:		
PHI:101	Introduction to Philosophy OR	3.00
PHI:110	Introduction to Logic OR	3.00
REL:101	Survey of World Religions	3.00
Cultural/Historical Perspectives:		**Credits**
CLS:150	Latin American History and Culture	3.00
Social Sciences:		
POL:111	American National Government	3.00

CONCENTRATION ELECTIVES

Speech requirements vary depending on the transfer institution. It is important to plan your course selection carefully with both your community college advisor and your intended transfer institution. Choose elective courses as needed to complete the 62 credit hours required of an Associate Degree.

Recommended Electives:		Credits
DRA:101	Introduction to Theatre	3.00
SPC:114	Advanced Public Speaking	2.00
SPC:122	Interpersonal Communication	3.00
SPC:170	Professional Communication	3.00

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EASTERN IOWA
COMMUNITY COLLEGES
CLINTON • MUSCATINE • SCOTT

THE *Community's* College

CAREER
TECHNOLOGY

skills.
success.
Community.

GENERAL EDUCATION REQUIREMENTS

Associate of Applied Science (AAS) Degree

To earn an Associate of Applied Science (AAS) degree, you must complete the general educational and technical competency requirements of a two-year technical program with a GPA of 2.0 or better in your award major. These programs are designed to prepare you for skilled employment in your chosen area; they are not designed for transfer to a four-year college or university.

AAS degrees vary by program in the number of credit hours required for completion, and range between 62–86 total credits. All course work must be at the 100 level or above. See specific requirements for AAS program later in the catalog.

A minimum of 15 credit hours of general education is required for the AAS degree, with at least one course in Communications, one course in Humanities or Social Science and one course in Math or Science. Specific general education courses required in each program are listed under the program's curriculum.

Diploma

To earn a Diploma award, you must complete a minimum of three credits of general education coursework in Communications, Humanities, Math, Science, or Social Science. All coursework must be at the 100 level or above. See specific requirements listed in each program under the program's curriculum.

Certificate

There are no specific general education requirements for certificates.

Career Technology Concentration Areas	Award	College(s)	Pages
Accounting Management	AAS Degree, Diploma	CCC, MCC, SCC	74
Administrative and Office Support	AAS Degree, Diploma, Certificate	CCC, MCC, SCC	76
Agribusiness Equipment Technician	AAS Degree	MCC	78
Equipment Sales and Service	Diploma	MCC	
Agribusiness Management	AAS Degree	MCC	77
Agronomy	Diploma	MCC	
Sales and Service	Diploma	MCC	
Agriculture Systems Technology	AAS Degree	MCC	78
Precision Agribusiness Management	AAS Degree	MCC	79
American Sign Language – English Interpreting	AAS Degree	SCC	81
Deaf Studies	Certificate	SCC	
Auto Collision Repair Technology	AAS Degree, Diploma, Certificate	SCC	82
Automotive Technology	AAS Degree, Diploma	SCC	84
Basic Service	Certificate	SCC	
General Service	Certificate	SCC	
Business Management	AAS Degree	CCC, MCC, SCC	86
Entrepreneurship	Certificate	CCC, MCC, SCC	
Management/Supervision	Certificate	CCC, MCC, SCC	
Marketing	Certificate	CCC, MCC, SCC	
Small Business Management	Certificate	CCC, MCC, SCC	
Cancer Information Management	AAS Degree, Diploma, Certificate	SCC	88
CNC/Machining	AAS Degree	SCC	90
CNC Programming	Certificate	SCC	
Manual Machining	Certificate	SCC	
Culinary Arts Apprenticeship	AAS Degree	MCC, SCC	92
Culinary Arts Degree	AAS Degree, Diploma, Certificate	MCC, SCC	93
Baking	Certificate	MCC, SCC	
Dental Assisting	Diploma	SCC	94
Dental Assisting Expanded Functions	Certificate	SCC	
Community Dental Health Coordinator	Certificate	SCC	
Diesel Technology	AAS Degree, Diploma	SCC	96
Heavy Duty Train	Certificate	SCC	
Truck Electrical	Certificate	SCC	
Early Childhood Education	AAS Degree, Diploma, Certificate	MCC, SCC	98
Electroneurodiagnostic Technology**	AAS Degree	SCC	99

Program	Credential	Campus	Page
Emergency Medical Services	AAS Degree	CCC, MCC, SCC	100
Emergency Medical Technician	Certificate	CCC, MCC, SCC	
Advanced Emergency Medical Technician	Certificate	CCC, MCC, SCC	
Engineering Technology	AAS Degree	CCC, MCC, SCC	101
Automation	AAS Degree	CCC, MCC, SCC	
Electromechanical	AAS Degree, Diploma	CCC, MCC, SCC	
Process Control	AAS Degree	CCC, MCC, SCC	
Basic Electricity	Certificate	CCC, MCC, SCC	
Basic Electronics	Certificate	CCC, MCC, SCC	
Electrical Systems	Certificate	CCC, MCC, SCC	
Process Control Technology	Certificate	CCC, MCC, SCC	
Environmental, Health and Safety*	AAS Degree, Diploma, Certificate	CCC, MCC, SCC	104
Farm Management (Swine and Non–swine options)	AAS Degree	MCC	105
Graphic Arts Technology	AAS Degree, Diploma	CCC	106
Health Informatics**	Diploma, Certificate	SCC	107
Health Information Technology*	AAS Degree, Diploma	SCC	108
Heating, Ventilation and Air Conditioning	Diploma	SCC	109
Hospitality Management	AAS Degree	MCC, SCC	110
Event Management	Certificate	MCC, SCC	
Hospitality Skills	Diploma, Certificate	MCC, SCC	
Information Technology	AAS Degree, Diploma	CCC, MCC, SCC	111
Augmented and Virtual Reality	AAS Degree, Diploma	CCC, MCC, SCC	
Database**	AAS Degree	CCC, MCC, SCC	
Networking for Systems and Security	AAS Degree, Diploma, Certificate	CCC, MCC, SCC	
Programming	AAS Degree, Diploma	CCC, MCC, SCC	
Security and Forensics	AAS Degree	CCC, MCC, SCC	
Web Development	AAS Degree	CCC, MCC, SCC	
Networking for Cybersecurity	Diploma	CCC, MCC, SCC	
Cybersecurity	Certificate	SCC	
Mechanical Design Technology	AAS Degree, Diploma, Certificate	SCC	115
Solid Modeling	Certificate	SCC	
Medical Assistant	Diploma	SCC	117
Nursing			118
Associate Degree Nursing	AAS Degree	CCC, SCC	
Practical Nursing	Diploma	CCC, MCC, SCC	
Radiologic Technology	AAS Degree	SCC	119
Renewable Energy System Specialist	AAS Degree	SCC	120
Sonography			121
Diagnostic Medical Sonography	AAS Degree	SCC	
Diagnostic Cardiac Sonography	AAS Degree	SCC	
Supply Chain and Logistics	AAS Degree, Diploma	CCC, MCC, SCC	123
Logistics and Transportation	Certificate	CCC, MCC, SCC	
Inventory Control	Certificate	CCC, MCC, SCC	
Surgical Technology	AAS Degree	SCC	125
Technical Studies	AAS Degree	CCC, MCC, SCC	126
Truck Driving	Certificate	SCC	127
Turf and Landscape	AAS Degree, Diploma, Certificate	MCC	128
Veterinary Technician	AAS Degree	MCC	129
Welding	AAS Degree, Diploma	SCC	130
Basic Welding	Certificate	MCC, SCC	
General Maintenance	Certificate	SCC	
Production Welding	Certificate	CCC, SCC	
Structural Welding	Certificate	SCC	

*   Available 100% online
** Programs no longer accepting students.

ACCOUNTING MANAGEMENT

CAMPUS CLINTON, MUSCATINE AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND DIPLOMA

The Accounting Management program provides the fundamentals necessary to be able to solve business-oriented accounting problems. Students obtain extensive hands-on experience working "real-world" accounting problems including: payroll, cost and tax. Students learn how to maintain reliable accounting records both manually and in a computerized environment. Perhaps more importantly, students learn how to interpret and communicate accounting information to non-accounting personnel for organizational use.

As an Accounting Management graduate, you will be prepared for a position as an entry-level, junior or paraprofessional accountant. Training in accounting is invaluable for management at all levels.

ACCOUNTING MANAGEMENT AAS DEGREE

TERM 1
		Credits
ACC:121	Principles of Accounting I **OR**	3.00
ACC:142	Financial Accounting	
ADM:157	Business English **OR**	3.00
COM:102	Communication Skills **OR**	
ENG:105	Composition I	
BUS:102	Introduction to Business	3.00
SPC:170	Professional Communication **OR**	3.00
SPC:112	Public Speaking	
___:___	Technical or Business Skill Elective*	3.00
		15.00

TERM 2
ACC:146	Managerial Accounting	3.00
BUS:110	Business Math and Calculators [3.00 credits] **OR**	3.00 – 4.00
MAT:110	Math for Liberal Arts [3.00 credits] **OR**	
MAT:121	College Algebra [4.00 credits]	
BUS:185	Business Law I	3.00
HUM:110	Changes and Choices **OR**	3.00
HUM:105	Working in America **OR**	
SOC:110	Introduction to Sociology	
MKT:110	Principles of Marketing	3.00
___:___	Technical or Business Skill Elective*	3.00
		18.00 – 19.00

TERM 3 - SUMMER
		Credits
___:___	Accounting Elective **	4.00
		4.00

TERM 4
ACC:237	Intermediate Accounting	4.00
CSC:110	Introduction to Computers	3.00
ECN:110	Introduction to Economics **OR**	3.00
ECN:120	Principles of Macroeconomics **OR**	
ECN:130	Principles of Microeconomics	
MGT:101	Principles of Management	3.00
___:___	Accounting Elective**	3.00
		16.00

TERM 5
ACC:221	Cost Accounting	3.00
BUS:106	Employment Strategy	2.00
BUS:161	Human Relations	3.00
BUS:180	Business Ethics	3.00
___:___	Accounting Elective**	3.00
		14.00

Accounting Management AAS Total............................67.00 - 68.00

*TECHNICAL OR BUSINESS SKILL ELECTIVES
(Must select minimum of six credit hours total)
ADM:179	Records Management	3.00
ADM:105	Introduction to Keyboarding	1.00
ADM:122	Document Formatting	2.00
BCA:129	Basic Word Processing	2.00
BCA:130	Advanced Word Processing	2.00
BCA:147	Basic Spreadsheets	2.00
BCA:148	Advanced Spreadsheets	2.00
BCA:165	Basic Databases	2.00
BCA:220	Integrated Computer Business Applications	2.00
BCA:250	Desktop Publishing	3.00
BCA:711	Introduction to Microsoft PowerPoint	1.00
BCA:732	Getting Organized with Outlook	1.00
MKT:181	Customer Service Strategies	2.00

**ACCOUNTING ELECTIVES
(Must select minimum of 10 credit hours total)
ACC:161	Payroll Accounting	3.00
ACC:265	Income Tax Accounting	4.00
ACC:312	Computer Accounting	4.00
ACC:332	Computer Accounting – QuickBooks	2.00
BUS:908	Cooperative Education	1.00

ACCOUNTING MANAGEMENT DIPLOMA

TERM 1		Credits
ACC:121	Principles of Accounting I **OR**	3.00
ACC:142	Financial Accounting	
ACC:332	Computer Accounting–QuickBooks	2.00
BUS:110	Business Math and Calculators [3.00 credits] **OR**	3.00 – 4.00
MAT:110	Math for Liberal Arts [3.00 credits] **OR**	
MAT:121	College Algebra [4.00 credits] **OR**	
BUS:185	Business Law I	3.00
CSC:110	Introduction to Computers	3.00
		14.00 – 15.00

TERM 2		
ACC:146	Managerial Accounting	3.00
ACC:161	Payroll Accounting	3.00
ACC:265	Income Tax Accounting	4.00
ADM:157	Business English **OR**	3.00
COM:102	Communication Skills **OR**	
ENG:105	Composition I	
SPC:170	Professional Communication **OR**	3.00
SPC:112	Public Speaking	
		16.00

TERM 3 - SUMMER		
ACC:312	Computer Accounting	4.00
		4.00

Accounting Management Diploma Total .... 34.00 - 35.00
Gainful employment information for the Accounting Management program is located at www.eicc.edu/gainfulemployment

ADMINISTRATIVE AND OFFICE SUPPORT

CAMPUS CLINTON, MUSCATINE AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA AND CERTIFICATE

Administrative and Office Support is comprised of three programs, allowing students the option of completing their course of study at three different levels. The three AOS programs provide up-to-date computer training, using the most popular softwares currently found in area businesses. Students receive intense training on document formatting, word processing, spreadsheets, databases, desktop publishing and presentation software, internet and email. Equal emphasis is placed on grammar and on written and oral communication skills. Students are also trained in business math, filing systems and transcription; and they learn about time and stress management, conflict resolution, human relations, cultural differences, business etiquette, telephone skills, problem solving and customer service – the "soft skills" absolutely necessary to succeed in today's business world.

ADMINISTRATIVE AND OFFICE SUPPORT AAS DEGREE

TERM 1

		Credits
ADM:105	Introduction to Keyboarding	1.00
ADM:122	Document Formatting	2.00
ADM:157	Business English	3.00
ADM:179	Records Management	3.00
BCA:120	Computer Orientation	1.00
BCA:129	Basic Word Processing	2.00
BCA:147	Basic Spreadsheets	2.00
MKT:181	Customer Service Strategies	2.00
		16.00

Administrative and Office Support
Certificate Total **16.00**
Gainful employment information for the Administrative and Office Support program is located at www.eicc.edu/gainfulemployment

TERM 2

		Credits
BCA:130	Advanced Word Processing	2.00
BCA:148	Advanced Spreadsheets	2.00
BCA:165	Basic Databases	2.00
BCA:711	Introduction to Microsoft PowerPoint	1.00
BCA:732	Getting Organized with Outlook	1.00
BUS:106	Employment Strategy	2.00
BUS:110	Business Math and Calculators	3.00
MGT:151	Management Communication I	3.00
		16.00

Administrative and Office Support
Diploma Total **32.00**
Gainful employment information for the Administrative and Office Support program is located at www.eicc.edu/gainfulemployment

TERM 3

ACC:111	Introduction to Accounting **OR**	3.00
ACC:121	Principles of Accounting I	
ADM:149	Transcription	3.00
ADM:940	Leadership Seminar [2.00 credits] **OR**	2.00 – 3.00
ADM:254	Business Professionalism [1.00 credits] **AND**	
ADM:255	Business Professionalism II [1.00 credits] **OR**	
MGT:130	Principles of Supervision [3.00 credits]	
BCA:220	Integrated Computer Business Applications	2.00
BUS:161	Human Relations	3.00
ECN:130	Principles of Microeconomics **OR**	3.00
HUM:110	Changes and Choices **OR**	
SOC:110	Introduction to Sociology	
		16.00 – 17.00

TERM 4

ACC:332	Computer Accounting – QuickBooks	2.00
ADM:222	Career Capstone **OR**	3.00
ADM:936	Occupational Experience	
BCA:250	Desktop Publishing	3.00
SPC:170	Professional Communication	3.00
___:___	AOS Elective*	3.00
		14.00

Administrative and Office Support
AAS Total .... **62.00 - 63.00**

*AOS ELECTIVES
(Must select a minimum of three credit hours)

ACC:161	Payroll Accounting	3.00
BCA:722	Introduction to the Internet	1.00
BUS:102	Introduction to Business	3.00
BUS:130	Introduction to Entrepreneurship	3.00
BUS:180	Business Ethics	3.00
FIN:121	Personal Finance	3.00
FLS:141	Elementary Spanish I	4.00
GEO:121	World Regional Geography	3.00
HSC:113	Medical Terminology	2.00
MGT:165	Principles of Quality	3.00
MKT:110	Principles of Marketing	3.00

AGRIBUSINESS MANAGEMENT

CAMPUS MUSCATINE COMMUNITY COLLEGE
DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND DIPLOMA

The Agribusiness Management program is a comprehensive two-year retail agricultural and input/supply business management program.

· Professional training – classroom and real world experiences.
· Highly technical coursework based on industry standards.
· Feed, Seed, Fertilizer, Fuel, Crop Protection, Grain, Operations and Management – these are emphasized and critical to retail agribusiness success.
· Professional organizations for developing technical skills and leadership.
· Agricultural leaders serve as advisory committee members to guide the program.
· The human capital and technical sector of American agriculture.
  –· Develop Career Skills
  –· Sales and Human Relations
  –· Marketing and Management
  –· Merchandising and Marketing
  –· Precision Agriculture
  –· Animal Nutrition and Management
  –· Application of Plant Nutrients and Crop Protection Programs

AGRIBUSINESS MANAGEMENT AAS DEGREE

TERM 1

		Credits
AGA:881	Grain Science	1.75
AGB:103	Agricultural Economics	1.50
AGB:105	Business Principles for Agriculture I	1.75
AGB:108	Human Relations I	1.50
AGB:143	Applied Agribusiness Accounting I	1.25
AGB:191	Agricultural Sales I	1.50
AGC:941	Employment Experience I	3.00
AGS:315	Principles of Animal Nutrition	3.00
SPC:170	Professional Communication **OR**	3.00
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	
		18.25

TERM 2

		Credits
AGA:210	Corn and Soybean Production	3.00
AGA:285	Crop Protection	3.00
AGB:112	Human Relations II	1.75
AGB:192	Agricultural Sales II	1.75
AGC:915	Alpha Mu Sigma I	1.00
AGC:942	Employment Experience II	3.00
MAT:104	Applied Math Topics	3.00
		16.50

TERM 3 - SUMMER

AGA:373	Integrated Crop Management	2.00
AGB:144	Applied Agribusiness Accounting II	1.00
AGC:103	Ag Computers **OR**	3.00
CSC:110	Introduction to Computers	
AGS:119	Advanced Animal Science	2.00
		8.00

TERM 4

AGA:182	Introduction to Soil Science	3.00
AGA:901	Seed Science [1.50 credits] **OR**	1.50 – 3.00
AGS:554	Beef Production [3.00 credits] **OR**	
AGB:106	Business Principles for Agriculture II	1.75
AGB:231	Futures and Options	1.50
AGB:280	Business Law for Agriculture	1.50
AGC:943	Employment Experience III	3.00
AGS:352	Genetics	1.50
		13.75 – 15.25

TERM 5

AGA:349	Fertilizers	1.50
AGA:390	Introduction to Renewable Resources **OR**	3.00
ENV:115	Environmental Science	
AGB:193	Agricultural Sales III	1.25
AGB:357	Agribusiness Marketing and Retailing	3.00
AGC:916	Alpha Mu Sigma II	1.00
AGC:944	Employment Experience IV	3.00
AGP:243	Precision Agricultural Applications	3.00
		15.75

Term 5 Optional Course

AGM:423	Equipment & Diesel Performance	2.00

**Agribusiness Management
AAS Total** .... **72.25 - 73.75**

AGRIBUSINESS EQUIPMENT TECHNICIAN AAS DEGREE

TERM 1

		Credits
AGB 103	Agricultural Economics	1.50
AGB 105	Business Principles for Agriculture I	1.75
AGB 108	Human Relations I	1.50
AGB 180	Agribusiness Ethics	1.50
AGB 190	Customer Relations in Agriculture	1.50
AGB 191	Agricultural Sales I	1.50
AGB 195	Upselling in Agriculture	1.00
AGC 941	Employment Experience I	3.00
SPC:170	Professional Communication **OR**	3.00
ENG 105	Composition I **OR**	
SPC:112	Public Speaking	
		16.25

TERM 2

AGB:112	Human Relations II	1.75
AGB:192	Agricultural Sales II	1.75
AGC:915	Alpha Mu Sigma I	1.00
AGC:942	Employment Experience II	3.00
AGM:157	Machinery Management	3.00
AGM:423	Equipment & Diesel Performance	2.00
AUT:115	Automotive Shop Safety	1.00
WEL:124	Maintenance Welding	3.00
		16.50

TERM 3 - SUMMER

DSL:340	Diesel Engine Repair	5.00
		5.00

TERM 4

AGC:103	Ag Computers **OR**	3.00
CSC:110	Introduction to Computers	
DSL:505	Heavy Duty Drive Train I	3.00
DSL:507	Heavy Duty Drive Train II	3.00
DSL:603	Hydraulics	2.00
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
PSY:213	Industrial & Organizational Psychology **OR**	3.00
PSY:111	Introduction to Psychology **OR**	
SOC:110	Introduction to Sociology	
		17.00

TERM 5

		Credits
AUT:606	Basic Automotive Electricity / Electronics	3.00
AUT:614	Automotive Electrical I	3.00
DSL:151	Truck Electrical Systems	2.00
DSL:435	Diesel Fuel Systems I	3.00
DSL:437	Diesel Fuel Systems II	4.00
DSL:815	Preventative Maintenance	1.00
DSL:905	Cooperative Experience	2.00
		18.00

Agribusiness Equipment Technician AAS Total 72.75

AGRICULTURE SYSTEMS TECHNOLOGY AAS DEGREE

TERM 1

		Credits
AGB:108	Human Relations I	1.50
AGB:191	Agricultural Sales I	1.50
CSC:110	Introduction to Computers	3.00
ELE:101	Industrial Safety	1.00
ELE:216	DC Circuit Analysis	3.00
MAT:705	Industrial Math and Measurement I	2.00
SPC:170	Professional Communication **OR**	3.00
ENG 105	Composition I **OR**	
SPC:112	Public Speaking	
		15.00

TERM 2

AGB: 112	Human Relations II	1.75
AGB:192	Agricultural Sales II	1.75
AGC:918	Seminar I	1.00
ATR:105	Industrial Robotics	3.00
EGT:117	Fluid Power Fundamentals	2.00
ELE:217	AC Circuit Analysis	3.00
ELT:312	Solid State Devices and Systems	3.00
MAT:706	Industrial Math and Measurement II	2.00
		17.50

TERM 3 - SUMMER

AGC:941	Employment Experience I	3.00
		3.00

TERM 4

AGA:182	Intorduction to Soil Science	3.00
AGB:103	Agricultural Economics	1.50
AGB:180	Agribusiness Ethics	1.50
AGB:190	Customer Relations in Agriculture	1.50
ELE:225	Electrical Motor Control & Power Distribution	3.00
ELT:309	Digital Circuits	3.00
		13.50

TERM 5

		Credits
AGA:210	Corn and Soybean Production	3.00
AGA:390	Intorduction to Renewable Resources **OR**	3.00
ENV:115	Environmental Science	
AGC:919	Seminar II	1.00
AGP:243	Precision Agricultural Applications	3.00
ELT:123	Programmable Logic Controllers	3.00
IND:143	Motors and Drives	3.00
		16.00

Term 5 Optional Course

AGM:157	Machinery Management	3.00

**Agriculture Systems Technology
AAS Total** **65.00**

PRECISION AGRIBUSINESS MANAGEMENT AAS DEGREE

TERM 1

		Credits
AGB:103	Agricultural Economics	1.50
AGB:105	Business Principles for Agriculture I	1.75
AGB:108	Human Relations I	1.50
AGB:143	Applied Agribusiness Accounting I	1.25
AGB:191	Agricultural Sales I	1.50
AGC:103	Ag Computers **OR**	3.00
CSC:110	Introduction to Computers	
AGC:941	Employment Experience I	3.00
SPC:170	Professional Communication **OR**	3.00
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	
		16.50

TERM 2

AGA:210	Corn and Soybean Production	3.00
AGA:285	Crop Protection	3.00
AGB: 112	Human Relations II	1.75
AGB:192	Agricultural Sales II	1.75
AGC:915	Alpha Mu Sigma I	1.00
AGC:942	Employment Experience II	3.00
MAT:104	Applied Math Topics	3.00
		16.50

TERM 3 - SUMMER

AGA:373	Intregrated Crop Management	2.00
AGB:144	Applied Agribusiness Accounting II	1.00
AGP:420	Geospatial Data Collection	3.00
		6.00

TERM 4

		Credits
AGA:182	Intorduction to Soil Science	3.00
AGA:901	Seed Science	1.50
AGB:106	Business Principles for Agriculture II	1.75
AGB:280	Business Law for Agriculture	1.50
AGC:943	Employment Experience III	3.00
GIS:111	Introduction to Geographic Information Systems	3.00
		13.75

TERM 5

AGA:349	Fertilizers	1.50
AGA:390	Intorduction to Renewable Resources **OR**	3.00
ENV:115	Environmental Science	
AGB:193	Agricultural Sales III	1.25
AGB:357	Agribusiness Marketing and Retailing	3.00
AGC:916	Alpha Mu Sigma II	1.00
AGC:944	Employment Experience IV	3.00
AGP:243	Precision Agricultural Applications	3.00
		15.75

Term 5 Optional Course

AGM:423	Equipment & Diesel Performance	2.00

**Precision Agribusiness Management
AAS Total** **68.50**

AGRONOMY DIPLOMA

TERM 1

		Credits
AGA:182	Introduction to Soil Science	3.00
AGA:881	Grain Science	1.75
AGA:901	Seed Science	1.50
AGB:105	Business Principles for Agriculture I	1.75
AGB:190	Customer Relations in Agriculture	1.50
AGC:941	Employment Experience I	3.00
AGS:352	Genetics	1.50
		14.00

TERM 2

AGA:210	Corn and Soybean Production	3.00
AGA:285	Crop Protection	3.00
AGC:915	Alpha Mu Sigma I	1.00
AGC:942	Employment Experience II	3.00
AGP:243	Precision Agricultural Applications	3.00
MAT:104	Applied Math Topics	3.00
SPC:170	Professional Communication **OR**	3.00
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	
		19.00

Agronomy Diploma Total **33.00**
Gainful employment information for the Agronomy program is located at www.eicc.edu/gainfulemployment

AGRIBUSINESS EQUIPMENT SALES AND SERVICE DIPLOMA

TERM 1

		Credits
AGB 103	Agricultural Economics	1.50
AGB 105	Business Principles for Agriculture I	1.75
AGB 108	Human Relations I	1.50
AGB 180	Agribusiness Ethics	1.50
AGB 190	Customer Relations in Agriculture	1.50
AGB 191	Agricultural Sales I	1.50
AGB 195	Upselling in Agriculture	1.00
AGC 941	Employment Experience I	3.00
SPC:170	Professional Communication **OR**	3.00
ENG 105	Composition I **OR**	
SPC:112	Public Speaking	
		16.25

TERM 2

AGB:112	Human Relations II	1.75
AGB:192	Agricultural Sales II	1.75
AGC:915	Alpha Mu Sigma I	1.00
AGC:942	Employment Experience II	3.00
AGM:157	Machinery Management	3.00
AGM:423	Equipment & Diesel Performance	2.00
AUT:115	Automotive Shop Safety	1.00
WEL:124	Maintenance Welding	3.00
		16.50

**Agribusiness Equipment
Sales and Service Diploma Total**... **32.75**
Gainful employment information for the Agribusiness Equipment Sales and Service program is located at www.eicc.edu/gainfulemployment

SALES AND SERVICE DIPLOMA

TERM 1

		Credits
AGB:103	Agricultural Economics	1.50
AGB:105	Business Principles for Agriculture I	1.75
AGB:108	Human Relations I	1.50
AGB:143	Applied Agribusiness Accounting I	1.25
AGB:191	Agricultural Sales I	1.50
AGB:231	Futures and Options	1.50
AGB:280	Business Law for Agriculture	1.50
AGB:299	Farm Business Analysis	1.50
AGB:304	Agricultural Finance	1.50
AGC:941	Employment Experience I	3.00
		16.50

TERM 2

AGA:285	Crop Protection	3.00
AGB:112	Human Relations II	1.75
AGB:192	Agricultural Sales II	1.75
AGC:915	Alpha Mu Sigma I	1.00
AGC:942	Employment Experience II	3.00
MAT:104	Applied Math Topics	3.00
SPC:170	Professional Communication **OR**	3.00
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	
		16.50

Sales and Service Diploma Total... **33.00**
Gainful employment information for the Sales and Service program is located at www.eicc.edu/gainfulemployment

AMERICAN SIGN LANGUAGE - ENGLISH INTERPRETING

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND CERTIFICATE

The American Sign Language – English Interpreting program is an intensive program that begins with coursework to complete the Deaf Studies Certificate. The AAS in American Sign Language – English Interpreting consists of coursework to gain proficiency in sign language, interpreting skills, and professional decison.

After the completion of the program, students can begin work at an entry–level position in the educational setting or freelance as a sign language interpreter. As professional interpreters, they will provide access for consumers through communication facilitation and cultural mediation in a variety of settings.

DEAF STUDIES CERTIFICATE

TERM 1
		Credits
ASL:151	American Sign Language I	5.00
ITP:129	Deaf Studies	4.00
		9.00

TERM 2
ASL:181	American Sign Language II	5.00
DRA:130	Acting I	3.00
ITP:131	Social Aspects of Deaf Culture	4.00
		12.00

Deaf Studies Certificate Total... **21.00**
Gainful employment information for the Deaf Studies program is locat–ed at www.eicc.edu/gainfulemployment

AMERICAN SIGN LANGUAGE - ENGLISH INTERPRETING AAS DEGREE

Students must complete the Deaf Studies Certificate prior to beginning the ASL AAS.

TERM 1
		Credits
ASL:251	American Sign Language III	5.00
ITP:141	English Vocabulary/ Grammar for Interpreters	4.00
ITP:142	Comparative Discourse Analysis	3.00
ANT:105	Cultural Anthropology **OR**	3.00
PHI:105	Introduction to Ethics	
		15.00

TERM 2
ASL:281	American Sign Language IV	4.00
ITP:121	Introduction to Interpreting I	4.00
ITP:135	Introduction to Language	3.00
ITP:209	Interpreting Skills Lab	1.00
ENG:105	Composition I	3.00
		15.00

TERM 3 - SUMMER
MAT:110	Math for Liberal Arts	3.00
PSY:121	Developmental Psychology	3.00
		6.00

TERM 4
ASL:296	American Sign Language V	4.00
ITP:124	Introduction to Interpreting II	3.00
ITP:209	Interpreting Skills Lab	1.00
ITP:230	Transliteration I	4.00
		12.00

TERM 5
ASL:297	American Sign Language VI	4.00
ITP:209	Interpreting Skills Lab	1.00
ITP:231	Transliteration II	3.00
ITP:253	Practical Issues	3.00
ITP:256	Interpreter Certificate Preparation	2.00
ITP:941	Practicum	2.00
		15.00

**American Sign Language - English Interpreting
AAS Total** **63.00**

AUTO COLLISION REPAIR TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA AND CERTIFICATE

The Auto Collision Repair Technology program prepares students for the repair and refinishing of automotive vehicle bodies. The field has become an increasingly complex industry. The changing design of the automobile has resulted in an increased application of ultra-sensitive high-strength steel parts and the expanded use of molded composition and plastics for exterior panels.

The Auto Collision Repair Technology program has achieved certification from National Automotive Technicians Education Foundation (NATEF) for Automotive Service Excellence (ASE).

TERM 4

		Credits
AUT:404	Automotive Suspension and Steering	4.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
MAT:104	Applied Math Topics **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
		13.00

TERM 5

		Credits
AUT:524	Automotive Brake Systems and Service	4.00
BCA:188	Computer Fundamentals for Technicians	3.00
CRR:908	Cooperative Education	3.00
DSL:710	Heating, Air Conditioning and Refrigeration	4.00
		14.00

Auto Collision Repair Technology - Fall Start
AAS Total **69.00**

* A student must register for Co-op. Education during the Summer Session, Third Term, or Fourth Term

AUTO COLLISION REPAIR TECHNOLOGY - FALL START AAS DEGREE

TERM 1

		Credits
CRR:113	Welding Survey	2.00
CRR:140	Orientation and Safety	3.00
CRR:322	Basic Metal Bumping and Repair	5.00
CRR:452	Trim and Component Panel Service	2.00
CRR:801	Refinishing I	3.00
COM:102	Communication Skills **OR**	3.00
ENG:105	Composition I	
		18.00

Term 1 Optional Course

CRR:103	Survey of Auto Collision Repair	1.50

TERM 2

CRR:114	Welding Systems and Techniques	2.00
CRR:200	Plastic Repair	1.00
CRR:405	Nonstructural Panel Repair and Replacement	5.00
CRR:507	Structural Panel Repair and Replacement	5.00
MAT:104	Applied Math Topics **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
		16.00

TERM 3 - SUMMER

CRR:743	Estimating	3.00
CRR:825	Refinishing Principles	5.00
		8.00

Auto Collision Repair Technology
Diploma Total **42.00**
Gainful employment information for the Auto Collision Repair Technology program is located at www.eicc.edu/gainfulemployment

AUTO COLLISION REPAIR TECHNOLOGY - SPRING START AAS DEGREE

TERM 1

		Credits
AUT:524	Automotive Brake Systems and Service	4.00
BCA:188	Computer Fundamentals for Technicians	3.00
CRR:140	Orientation and Safety	3.00
DSL:710	Heating, Air Conditioning and Refrigeration	4.00
		14.00

Term 1 Optional Course

CRR:103	Survey of Auto Collision Repair	1.50

TERM 2

CRR:113	Welding Survey	2.00
CRR:322	Basic Metal Bumping and Repair	5.00
CRR:452	Trim and Component Panel Service	2.00
CRR:801	Refinishing I	3.00
COM:102	Communication Skills **OR**	3.00
ENG:105	Composition I	
		15.00

TERM 3

CRR:114	Welding Systems and Techniques	2.00
CRR:200	Plastic Repair	1.00
CRR:405	Nonstructural Panel Repair and Replacement	5.00
CRR:507	Structural Panel Repair and Replacement	5.00
MAT:104	Applied Math Topics **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
		16.00

TERM 4 - SUMMER

CRR:743	Estimating	3.00
CRR:825	Refinishing Principles	5.00
		8.00

AUTO COLLISION REPAIR TECHNOLOGY (CONTINUED)

TERM 5

Course	Title	Credits
AUT:404	Automotive Suspension and Steering	4.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
CRR:908	Cooperative Education	3.00
PSY:213	Industrial & Organizational Psychology **OR**	3.00
MAT:104	Applied Math Topics	
		16.00

Auto Collision Repair Technology - Spring Start
AAS Total **69.00**

* A student must register for Co-op. Education during the Summer Session, Third Term, or Fourth Term

AUTO COLLISION REPAIR TECHNOLOGY CERTIFICATE

TERM 1

Course	Title	Credits
CRR:113	Welding Survey	2.00
CRR:140	Orientation and Safety	3.00
CRR:322	Basic Metal Bumping and Repair	5.00
CRR:452	Trim and Component Panel Service	2.00
CRR:801	Refinishing I	3.00
		15.00

TERM 2

Course	Title	Credits
CRR:114	Welding Systems and Techniques	2.00
CRR:200	Plastic Repair	1.00
CRR:405	Nonstructural Panel Repair and Replacement	5.00
CRR:507	Structural Panel Repair and Replacement	5.00
		13.00

Auto Collision Reppair Technology
Certificate Total **28.00**
Gainful employment information for the Auto Collision Repair Technology program is located at www.eicc.edu/gainfulemployment

AUTOMOTIVE TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE,
DIPLOMA AND CERTIFICATE

The Automotive Technology Program admits students in the Fall and Spring semester every year. Graduates from our program are prepared to pass certification exams in all of the following eight areas: Engine Repair, Manual Drive Train and Axles, Brakes, Heating and Air Conditioning, Automatic Transmission/Transaxle, Suspension and Steering, Electrical/Electronic Systems, and Engine Performance.

Some of the graduates of this program will work in shops as general line technicians performing work on all systems of the vehicle. Others will work in specialty shops that specialize in just certain areas of the vehicle such as brakes or transmissions. Graduates may also work in related areas such as service advising or parts distribution.

The Automotive Technology program has achieved certification from National Automotive Technicians Education Foundation (NATEF) for Automotive Service Excellence (ASE).

AUTOMOTIVE TECHNOLOGY - FALL START AAS DEGREE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:164	Automotive Engine Repair	4.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
ENG:105	Composition I **OR**	3.00
COM:102	Communication Skills	
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
		17.00

Term 1 Optional Course

AUT:103	Survey of Auto Technology	1.50

TERM 2

AUT:232	Automotive Transmission I	3.00
AUT:304	Automotive Manual Drive Train and Axles	4.00
AUT:524	Automotive Brake Systems and Service	4.00
AUT:802	Engine Performance I	3.00
		14.00

TERM 3 - SUMMER

		Credits
AUT:404	Automotive Suspension and Steering	4.00
AUT:704	Automotive Heating and Air Conditioning	4.00
		8.00

Automotive Technology Diploma Total **39.00**
Gainful employment information for the Automotive Technology program is located at www.eicc.edu/gainfulemployment

TERM 4

		Credits
AUT:233	Automotive Transmission II	3.00
AUT:811	Engine Performance II	4.00
BCA:188	Computer Fundamentals for Technicians **OR**	3.00
BUS:102	Introduction to Business	
HUM:105	Working in America **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
		13.00

TERM 5

AUT:656	Automotive Electrical II	4.00
AUT:817	Automotive Engine Performance III	3.00
AUT:911	Cooperative/Internship	4.00
WEL:331	Welding Fundamentals	2.00
		13.00

**Automotive Technology - Fall Start
AAS Total** **65.00**

AUTOMOTIVE TECHNOLOGY - SPRING START AAS DEGREE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:232	Automotive Transmission I	3.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
AUT:802	Engine Performance I	3.00
		13.00

TERM 2 - SUMMER

AUT:811	Engine Performance II	4.00
AUT:817	Automotive Engine Performance III	3.00
		7.00

TERM 3

AUT:164	Automotive Engine Repair	4.00
AUT:233	Automotive Transmission II	3.00
ENG:105	Composition I **OR**	3.00
COM:102	Communication Skills	
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
		13.00

TERM 4

		Credits
AUT:304	Automotive Manual Drive Train and Axles	4.00
AUT:524	Automotive Brake Systems and Service	4.00
AUT:656	Automotive Electrical II	4.00
		12.00

TERM 5 - SUMMER

AUT:404	Automotive Suspension and Steering	4.00
AUT:704	Automotive Heating and Air Conditioning	4.00
		8.00

TERM 6

AUT:911	Cooperative/Internship	4.00
BCA:188	Computer Fundamentals for Technicians OR	3.00
BUS:102	Introduction to Business	
HUM:105	Working in America OR	3.00
PSY:213	Industrial & Organizational Psychology	
WEL:331	Welding Fundamentals	2.00
		12.00

**Automotive Technology - Spring Start
AAS Total** **65.00**

AUTOMOTIVE TECHNOLOGY BASIC SERVICE CERTIFICATE - FALL START

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
ENG:105	Composition I OR	3.00
COM:102	Communication Skills	
		10.00

TERM 2

AUT:524	Automotive Brake Systems and Service	4.00
		4.00

TERM 3 - SUMMER

AUT:404	Automotive Suspension and Steering	4.00
		4.00

**Automotive Technology Basic Service - Fall Start
Certificate Total** **18.00**
Gainful employment information for the Automotive Technology Basic Service program is located at www.eicc.edu/gainfulemployment

AUTOMOTIVE TECHNOLOGY BASIC SERVICE CERTIFICATE - SPRING START

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:524	Automotive Brake Systems and Service	4.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
BCA:188	Computer Fundamentals for Technicians OR	3.00
BUS:102	Introduction to Business	
		14.00

TERM 2 - SUMMER

AUT:404	Automotive Suspension and Steering	4.00
		4.00

**Automotive Technology Basic Service - Spring Start
Certificate Total** **18.00**
Gainful employment information for the Automotive Technology Basic Service program is located at www.eicc.edu/gainfulemployment

AUTOTMOTIVE TECHNOLOGY GENERAL SERVICE CERTIFICATE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:164	Automotive Engine Repair	4.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
ENG:105	Composition I OR	3.00
COM:102	Communication Skills	
		14.00

TERM 2

AUT:232	Automotive Transmission I	3.00
AUT:304	Automotive Manual Drive Train and Axles	4.00
AUT:524	Automotive Brake Systems and Service	4.00
AUT:802	Engine Performance I	3.00
		14.00

TERM 3 - SUMMER

AUT:404	Automotive Suspension and Steering	4.00
AUT:704	Automotive Heating and Air Conditioning	4.00
		8.00

**Automotive Technology General Service
Certificate Total** **36.00**
Gainful employment information for the Automotive Technology General Service program is located at www.eicc.edu/gainfulemployment

BUSINESS MANAGEMENT

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND CERTIFICATE

The Business Management program is designed especially for students interested a two-year, or shorter, degree to enter into the workplace.

This program provides the fundamentals necessary to be able to solve business-oriented problems. Students obtain extensive hands-on experience working "real-world" business problems relating to management and supervision. Students graduating from the program will have a solid business background necessary to enter or advance in the business job market in a variety of positions.

As a Business Management graduate you will be prepared to enter a company as a manager/supervisor trainee. If you are currently working in a business management position, you will--through updated skills, knowledge and techniques--be able to move up the career ladder to higher supervisory positions.

BUSINESS MANAGEMENT AAS DEGREE

TERM 1

		Credits
ADM:157	Business English **OR**	3.00
COM:102	Communication Skills **OR**	
ENG:105	Composition I	
BUS:102	Introduction to Business	3.00
CSC:110	Introduction to Computers	3.00
MGT:101	Principles of Management	3.00
___:___	Business Specialty Electives*	3.00
		15.00

TERM 2

BUS:110	Business Math and Calculators [3.00 credits] **OR**	3.00 – 4.00
MAT:110	Math for Liberal Arts [3.00 credits] **OR**	
MAT:121	College Algebra [4.00 credits]	
BUS:161	Human Relations	3.00
BUS:180	Business Ethics	3.00
MKT:110	Principles of Marketing	3.00
___:___	Business Specialty Electives*	3.00
		15.00 – 16.00

TERM 3 - SUMMER

___:___	Business Specialty Electives*	3.00
		3.00

TERM 4

		Credits
ACC:121	Principles of Accounting I **OR**	3.00
ACC:142	Financial Accounting	
ECN:110	Introduction to Economics **OR**	3.00
ECN:120	Principles of Macroeconmics **OR**	
ECN:130	Principles of Microeconomics	
SPC:170	Professional Communication **OR**	3.00
SPC:112	Public Speaking	
___:___	Business Specialty Electives*	3.00
___:___	Business Skill Elective**	3.00
		15.00

TERM 5

ACC:146	Managerial Accounting	3.00
BUS:106	Employment Strategy	2.00
BUS:185	Business Law I	3.00
HUM:105	Working in America **OR**	3.00
HUM:110	Changes and Choices **OR**	
SOC:110	Introduction to Sociology	
___:___	Business Specialty Electives*	3.00
___:___	Business Skill Elective**	3.00
		17.00

Business Management AAS Total .... 65.00 - 66.00

*BUSINESS SPECIALTY ELECTIVES
(Must select a minimum of 15 credit hours)

BUS:130	Introduction to Entrepreneurship	3.00
BUS:135	Managing the Entrepreneurial Venture	3.00
BUS:147	The Successful Entrepreneur	3.00
BUS:186	Business Law II	3.00
BUS:908	Cooperative Education	3.00
FIN:121	Personal Finance	3.00
MGT:110	Small Business Management	3.00
MGT:130	Principles of Supervision	3.00
MGT:151	Management Communication I	3.00
MGT:165	Principles of Quality	3.00
MGT:170	Human Resource Management	3.00
MGT:210	Management Decision Making	3.00
MKT:140	Principles of Selling	3.00
MKT:150	Principles of Advertising	3.00
MKT:160	Principles of Retailing	3.00

BUSINESS MANAGEMENT
(CONTINUED)

**BUSINESS SKILL ELECTIVES

(Must select a minimum of six credit hours total)

Course	Title	Credits
ACC:332	Computer Accounting – QuickBooks	2.00
ADM:105	Introduction to Keyboarding	1.00
ADM:122	Document Formatting	2.00
ADM:179	Records Management	3.00
BCA:129	Basic Word Processing	2.00
BCA:130	Advanced Word Processing	2.00
BCA:147	Basic Spreadsheets	2.00
BCA:148	Advanced Spreadsheets	2.00
BCA:165	Basic Databases	2.00
BCA:220	Integrated Computer Business Applications	2.00
BCA:250	Desktop Publishing	3.00
BCA:711	Introduction to Microsoft PowerPoint	1.00
BCA:732	Getting Organized with Outlook	1.00
MKT:181	Customer Service Strategies	2.00

ENTREPRENEURSHIP CERTIFICATE

TERM 1		Credits
BUS:130	Introduction to Entrepreneurship	3.00
BUS:135	Managing the Entrepreneurial Venture	3.00
BUS:147	The Successful Entrepreneur	3.00
		9.00

Entrepreneurship Certificate Total **9.00**
Gainful employment information for the Entrepreneurship program is located at www.eicc.edu/gainfulemployment

MANAGEMENT SUPERVISION CERTIFICATE

TERM 1		Credits
MGT:101	Principles of Management	3.00
MGT:130	Principles of Supervision	3.00
MGT:165	Principles of Quality	3.00
MGT:210	Management Decision Making	3.00
___:___	Business Specialty Elective*	3.00
		15.00

Management Supervision Certificate Total..........................**15.00**
Gainful employment information for the Management Supervision program is located at www.eicc.edu/gainfulemployment

MARKETING CERTIFICATE

TERM 1		Credits
MKT:110	Principles of Marketing	3.00
MKT:140	Principles of Selling	3.00
MKT:150	Principles of Advertising	3.00
MKT:160	Principles of Retailing	3.00
___:___	Business Specialty Elective*	3.00
		15.00

Marketing Certificate Total...**15.00**
Gainful employment information for the Marketing program is located at www.eicc.edu/gainfulemployment

SMALL BUSINESS MANAGEMENT CERTIFICATE

TERM 1		Credits
ACC:121	Principles of Accounting I **OR**	3.00
ACC:142	Financial Accounting	
BUS:102	Introduction to Business	3.00
BUS:185	Business Law I	3.00
MGT:110	Small Business Management	3.00
___:___	Business Specialty Elective*	3.00
		15.00

Small Business Management Certificate Total...................**15.00**
Gainful employment information for the Samll Business Management program is located at www.eicc.edu/gainfulemployment

CANCER INFORMATION MANAGEMENT

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Cancer Information Management program prepares students for a career working in hospital-based cancer registries or population-based, central registries. Cancer registration is the basic method by which information about the incidence, type, extent of disease at time of diagnosis, treatment methods used and survival of patients with cancer is systematically collected.

Scott Community College offers an Associate of Applied Science Degree, a Diploma, and a Certificate program in Cancer Information Management. These programs meet the state of Iowa AAS and Certificate degree requirements. The program is offered mainly online, with the requirement of a final 160 hours Capstone of practical experience with a Certified Tumor Registrar at a Cancer Registry.

The Cancer Information Management program is accredited by National Cancer Registrars Association (NCRA).

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Cancer Information Management program can be found at www.eicc.edu/future-students/our-programs.

CANCER INFORMATION MANAGEMENT AAS DEGREE

TERM 1

		Credits
BIO:168	Human Anatomy and Physiology I	4.00
CSC:110	Introduction to Computers	3.00
ENG:105	Composition I	3.00
HSC:113	Medical Terminology	2.00
		12.00

TERM 2

BIO:173	Human Anatomy and Physiology II	4.00
HIT:120	Pharmacology for HIT	1.00
HIT:139	Math for Healthcare Professionals	3.00
HIT:170	Principles of Human Disease	3.00
HIT:370	Health Records in Acute Care	3.00
		14.00

TERM 3 - SUMMER

CIM:205	Cancer Pathophysiology	3.00
PSY:111	Introduction to Pscyhology **OR**	3.00
SOC:110	Introduction to Sociology	
		6.00

TERM 4

		Credits
CIM:200	Registry Organization & Operations	3.00
CIM:210	Oncology Coding and Staging Systems	4.00
CIM:240	Cancer Patient Follow-Up	2.00
HIT:422	Medico-Legal Ethics	3.00
SPC:170	Professional Communication **OR**	3.00
SPC:112	Public Speaking	
		15.00

TERM 5

CIM:215	Abstracting Principles & Practices I	2.00
CIM:220	Abstracting Principles & Practices II	2.00
CIM:250	Cancer Statistics & Epidemiology	3.00
HIT:312	Health Informatics and Information Management Systems	3.00
CIM:261	CIM Seminar	2.00
		12.00

TERM 6 - SUMMER

CIM:271	CIM Capstone	6.00
		6.00

Cancer Information Management AAS Total **65.00**

DIPLOMA

For students with previous AAS degree in non-health major or higher

PREREQUISITE COURSE

		Credits
SPC:170	Professional Communication	3.00
		3.00

TERM 1

BIO:168	Human Anatomy and Physiology I	4.00
CIM:200	Registry Organization & Operations	3.00
CIM:205	Cancer Pathophysiology	3.00
CIM:210	Oncology Coding and Staging Systems	4.00
CIM:240	Cancer Patient Follow-Up	2.00
HIT:120	Pharmacology for HIT	1.00
HSC:113	Medical Terminology	2.00
		19.00

TERM 2

BIO:173	Human Anatomy and Physiology II	4.00
CIM:215	Abstracting Principles & Practices I	2.00
CIM:250	Cancer Statistics & Epidemiology	3.00
CIM:261	CIM Seminar	2.00
HIT:170	Principles of Human Disease	3.00
HIT:312	Health Informatics and Information Management Systems	3.00
		17.00

TERM 3 - SUMMER

CIM:220	Abstracting Principles & Practices II	2.00
CIM:271	CIM Capstone	6.00
		8.00

Cancer Information Management Diploma Total **47.00**
Gainful employment information for the Cancer Information Management program is located at www.eicc.edu/gainfulemployment

CERTIFICATE

For students with previous AAS degree in nursing and/or allied health major or higher

TERM 1

		Credits
CIM:200	Registry Organization & Operations	3.00
CIM:205	Cancer Pathophysiology	3.00
CIM:210	Oncology Coding and Staging Systems	4.00
CIM:240	Cancer Patient Follow-Up	2.00
		12.00

TERM 2

CIM:215	Abstracting Principles & Practices I	2.00
CIM:220	Abstracting Principles & Practices II	2.00
CIM:250	Cancer Statistics & Epidemiology	3.00
CIM:261	CIM Seminar	2.00
HIT:312	Health Informatics and Information Management Systems	3.00
		12.00

TERM 3 - SUMMER

CIM:271	CIM Capstone	6.00
		6.00

**Cancer Information Management
Certificate Total** **30.00**
Gainful employment information for the Cancer Information Management program is located at www.eicc.edu/gainfulemployment

CNC MACHINING

The Blong Technology Center (BTC) offers manual machining and Computer Numerical Control (CNC) machining. Certificate programs are available in both manual and CNC programming; the Associate of Applied Science degree program is available in CNC machining. Learning is hands-on in the modern laboratory furnished with the same types of equipment used by local manufacturing plants. Classes are offered in an eight-week format with a flexible schedule of attendance during day and evening hours.

CNC MACHINING AAS DEGREE

TERM 1
		Credits
Session I		
CSC:112	Computer Fundamentals for Technicians I/A	2.00
MAT:733	Math for Technologies A	1.50
MFG:186	Plant Safety	1.00
Session II		
CSC:113	Computer Fundamentals for Technicians I/B	2.00
MAT:734	Math for Technologies B	1.50
MFG:105	Machine Shop Measuring	3.00
MFG:192	Blueprint Reading	3.00
		14.00

TERM 2
Session I		
IND:222	Geometric Tolerancing and Dimensioning	3.00
MFG:112	Drills and Saws	2.00
MFG:116	Carbide Tooling	1.00
Session II		
MFG:113	Vertical and Horizontal Mills	5.50
MFG:115	Lathe Work	4.50
		16.00
Term 2 Optional Course		
MFG:140	Geometric Dimensioning and Tolerance	1.00

TERM 3 - SUMMER
___:___	Humanities Electives*	3.00
MFG:111	Machinery's Handbook	1.00
MFG:117	Cylindrical Grinding	1.50
MFG:190	Metallurgy	2.00
		7.50

TERM 4
		Credits
Session I		
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
MFG:151	CNC Fundamentals	2.00
PHY:185	Conceptual Physics Fundamentals I	2.00
Session II		
MFG:114	Surface Grinding	2.75
MFG:118	Machine Tool Project	4.00
PHY:186	Conceptual Physics Fundamentals II	2.00
		15.75

TERM 5
Session I		
MFG:201	CNC Turning Operator	2.00
MFG:221	CNC Milling Operator	2.00
MFG:223	CAD/CAM	2.00
MFG:224	Coordinate Measuring Machine (CMM)	1.00
Session II		
MFG:205	Mill Programming	2.00
MFG:239	Lathe Programming	2.00
MFG:372	SolidWorks/MasterCam Applications	3.00
		14.00

TERM 6 - SUMMER
Session I		
MFG:229	CNC Project	4.00
		4.00

CNC Machining AAS Total.. **71.25**

*HUMANITIES ELECTIVE
(Select one course from the following)
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

CNC PROGRAMMING CERTIFICATE

TERM 1		Credits
IND:222	Geometric Tolerancing and Dimensioning	3.00
MAT:733	Math for Technologies A	1.50
MAT:734	Math for Technologies B	1.50
MFG:105	Machine Shop Measuring	3.00
MFG:116	Carbide Tooling	1.00
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
		14.00

TERM 2		
MFG:151	CNC Fundamentals	2.00
MFG:201	CNC Turning Operator	2.00
MFG:205	Milling Programming	2.00
MFG:221	CNC Milling Operator	2.00
MFG:223	CAD/CAM	2.00
MFG:224	Coordinate Measuring Machine (CMM)	1.00
MFG:239	Lathe Programming	2.00
		13.00

TERM 3 - SUMMER		
MFG:229	CNC Project	4.00
		4.00

CNC Programming Certificate Total... **31.00**
Gainful employment information for the CNC Programming program is located at www.eicc.edu/gainfulemployment

MANUAL MACHINING CERTIFICATE

TERM 1		Credits
Session I		
MAT:733	Math for Technologies A	1.50
MFG:116	Carbide Tooling	1.00
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
Session II		
MAT:734	Math for Technologies B	1.50
MFG:105	Machine Shop Measuring	3.00
		11.00

TERM 2		
Session I		
MFG:112	Drills and Saws	2.00
Session II		
MFG:113	Vertical/Horizontal Mills	5.50
MFG:115	Lathe Work	4.50
		12.00

TERM 3		
Session I		
MFG:114	Surface Grinding	2.75
MFG:117	Cylindrical Grinding	1.50
Session II		
MFG:118	Machine Tool Project	4.00
		8.25

Manual Machining Certificate Total **31.25**
Gainful employment information for the Manual Machining program is located at www.eicc.edu/gainfulemployment

CULINARY ARTS

CAMPUS MUSCATINE AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

Since 1991, the program and Scott Community College have operated in the Quad Cities. Apprentices work at one of the 65 approved apprenticeship sites under the supervision of the executive chef to complete a total of 6,000 hours on the job. The apprentice takes general education requirement classes and classes in Culinary Arts at Scott Community College and other selected class sites. A non-apprenticeship AAS degree is also offered by the program.

APPRENTICESHIP AAS DEGREE

The Culinary Arts Apprenticeship AAS is a 73.5 credit program. Five of the nine terms are to be taken on a part-time basis to allow for the apprenticeship portion of the program. Apprenticeship is the classic training method of chefs and cooks, and still used almost exclusively in Europe. These programs are linked to each state Bureau of Apprenticeship and Training.

Apprentices work at one of 65 approved apprenticeship sites under the supervision of the Journeyman Chef or Kitchen Manager to complete a total of 6,000 hours on the job.

All course involved in this program (Core and Electives) are taught on the campus of Scott Community College. A Dept. of Labor Journeyman Chef Certificate is issued upon completion and documentation of on-job-training (OJT) training log entries (6000 hours) in addition to the AAS degree.

Students graduating from this program are crossed trained in multi levels of cooking and methods from individual service to buffets and banquets.

TERM 1

		Credits
CSC:107	Computer Literacy	3.00
HCM:100	Sanitation and Safety	2.00
HCM:154	Basic Food Preparation	2.00
HCM:180	Food Fundamentals	2.00
HCM:501	Culinary Practicum I	3.00
		12.00

TERM 2

HCM:156	Intermediate Food Prep	3.00
HCM:233	Menu Planning and Nutrition	3.00
HCM:265	Mathematics for Hospitality	3.00
HCM:502	Culinary Practicum II	3.00
		12.00

TERM 3 - SUMMER

		Credits
HCM:255	Purchasing	3.00
HCM:503	Culinary Practicum III	1.50
		4.50

TERM 4

HCM:116	Fundamentals of Baking	3.00
HCM:280	Food Cost Accounting	3.00
HCM:504	Culinary Practicum IV	3.00
HUM:105	Working in America	3.00
		12.00

TERM 5

HCM:160	Advanced Food Preparation	3.00
HCM:212	Industry Management	3.00
HCM:241	Menu Planning and Sales Promotion	3.00
HCM:505	Culinary Practicum V	3.00
PSY:213	Industrial & Organizational Psychology **OR**	3.00
PSY:111	Introduction to Psychology **OR**	
SOC:110	Introduction to Sociology	
		15.00

TERM 6 - SUMMER

HCM:155	Garde Manger	3.00
HCM:506	Culinary Practicum VI	1.50
		4.50

TERM 7

HCM:301	Beverage Control	3.00
HCM:507	Culinary Practicum VII	3.00
SPC:112	Public Speaking	3.00
		9.00

TERM 8

HCM:508	Culinary Practicum VIII	3.00
		3.00

TERM 9 - SUMMER

HCM:509	Culinary Practicum IX	1.50
		1.50

Culinary Arts Apprenticeship AAS Total................................ 73.50

CULINARY ARTS AAS DEGREE

TERM 1

		Credits
CSC:107	Computer Literacy	3.00
HCM:100	Sanitation and Safety	2.00
HCM:116	Fundamentals of Baking	3.00
HCM:154	Basic Food Preparation	2.00
HCM:180	Food Fundamentals	2.00
HCM:265	Mathematics for Hospitality	3.00
HCM:932	Internship	1.00
		16.00

TERM 2

HCM:156	Intermediate Food Prep	3.00
HCM:182	Intermediate Baking	3.00
HCM:212	Industry Management	3.00
HCM:233	Menu Planning and Nutrition	3.00
HCM:589	Introduction to Restaurant Management	3.00
HCM:932	Internship	1.00
		16.00

Culinary Arts Diploma Total **32.00**
Gainful employment information for the Culinary Arts program is located at www.eicc.edu/gainfulemployment

TERM 3 - SUMMER

HCM:255	Purchasing	3.00
		3.00

TERM 4

HCM:199	Batch Cooking	2.00
HCM:280	Food Cost Accounting	3.00
HCM:932	Internship	2.00
HCM:958	Hospitality Lab II	2.00
HUM:105	Working in America	3.00
SPC:112	Public Speaking **OR**	3.00
SPC:170	Professional Communication	
		15.00

TERM 5

HCM:160	Advanced Food Preparation	3.00
HCM:241	Menu Planning and Sales Promotion	3.00
HCM:301	Beverage Control	3.00
HCM:932	Internship	2.00
PSY:213	Industrial & Organizational Psychology **OR**	3.00
PSY:111	Introduction to Psychology **OR**	
SOC:110	Introduction to Sociology	
		14.00

TERM 6 - SUMMER

HCM:155	Garde Manger	3.00
		3.00

Culinary Arts AAS Total **67.00**

CULINARY ARTS CERTIFICATE

TERM 1

		Credits
CSC:107	Computer Literacy	3.00
HCM:100	Sanitation and Safety	2.00
HCM:116	Fundamentals of Baking	3.00
HCM:154	Basic Food Preparation	2.00
HCM:180	Food Fundamentals	2.00
HCM:265	Mathematics for Hospitality	3.00
HCM:932	Internship	1.00
		16.00

Culinary Arts Certificate Total **16.00**
Gainful employment information for the Culinary Arts program is located at www.eicc.edu/gainfulemployment

BAKING CERTIFICATE

TERM 1

		Credits
HCM:100	Sanitation and Safety	2.00
HCM:116	Fundamentals of Baking	3.00
HCM:180	Food Fundamentals	2.00
		7.00

TERM 2

HCM:182	Intermediate Baking	3.00
HCM:224	Artisan Breads	2.00
		5.00

TERM 3

HCM:125	Basic Cake Decorating	1.00
HCM:183	Advanced Baking	3.00
		4.00

Baking Certificate Total **16.00**
Gainful employment information for the Baking program is located at www.eicc.edu/gainfulemployment

DENTAL ASSISTING

CAMPUS SCOTT COMMUNITY COLLEGE
DEGREE DIPLOMA AND CERTIFICATE

The Dental Assisting program prepares students to seek career opportunities in private dental offices and specialty practices such as orthodontics, pediatric dentistry, periodontics, endodontics and oral surgery. The dental assistant performs a wide range of tasks requiring both interpersonal and technical skills.

The program in Dental Assisting is accredited by the Commission on Dental Accreditation (CODA) of the American Dental Association (ADA) [and has been granted the accreditation status of "approval without reporting requirements"]. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312–440–4653 or at 211 East Chicago Ave., Chicago, IL 60611. The Commission's web address is: http://www.ada.org/100.aspx.

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Dental Assisting program can be found at www.eicc.edu/future–students/our–programs.

DENTAL ASSISTING - FALL START DIPLOMA

TERM 1

		Credits
BIO:163	Essentials of Anatomy and Physiology	4.00
DEA:256	Dental Anatomy	2.00
DEA:293	Microbiology and Infection Control	2.00
DEA:302	Dental Radiography	3.00
DEA:403	Dental Materials	3.00
DEA:506	Principles of Dental Assisting	5.00
		19.00

TERM 2

DEA:110	Dental Health Education	2.00
DEA:251	Dental Science	2.00
DEA:575	Dental Assisting Clinic I	6.00
DEA:607	Dental Specialties	3.00
SPC:101	Fundamentals of Oral Communication	3.00
		16.00

TERM 3 - SUMMER

		Credits
DEA:297	Ethics/Jurisprudence Seminar	1.00
DEA:577	Dental Assisting Clinic II	4.00
DEA:701	Dental Office Procedures	1.00
		6.00

Dental Assisting - Fall Start
Diploma Total **41.00**
Gainful employment information for the Dental Assisting program is located at www.eicc.edu/gainfulemployment

DENTAL ASSISTING- SPRING START DIPLOMA

TERM 1

		Credits
BIO:163	Essentials of Anatomy and Physiology	4.00
DEA:256	Dental Anatomy	2.00
DEA:293	Microbiology and Infection Control	2.00
DEA:302	Dental Radiography	3.00
DEA:403	Dental Materials	3.00
DEA:506	Principles of Dental Assisting	5.00
		19.00

TERM 2 - SUMMER

DEA:577	Dental Assisting Clinic II	4.00
DEA:607	Dental Specialties	3.00
DEA:701	Dental Office Procedures	1.00
		8.00

TERM 3

DEA:110	Dental Health Education	2.00
DEA:251	Dental Science	2.00
DEA:297	Ethics/Jurisprudence Seminar	1.00
DEA:575	Dental Assisting Clinic I	6.00
SPC:101	Fundamentals of Oral Communication	3.00
		14.00

Dental Assisting - Spring Start
Diploma Total **41.00**
Gainful employment information for the Dental Assisting program is located at www.eicc.edu/gainfulemployment

Successful completion of the Dental Assisting Diploma program entitles graduates to take the Dental Assisting National Board (DANB) examination and the Iowa Board of Dental Examiners Radiography, Infection Control, Hazardous Waste and Jurisprudence examinations.

EXPANDED FUNCTIONS CERTIFICATE

Students must be a graduate of an ADA–accredited dental assisting program or be currently certified by the Dental Assisting National Board (DANB) or have at least one year of clinical practice as a registered dental assistant or have at least one year of clinical practice as a dental assistant in a state that does not require registration.

TERM 1		Credits
DEA:810	RDA Expanded Functions I	2.00
DEA:820	RDA Expanded Functions II	1.00
DEA:830	RDA Nitrous Oxide Monitoring	1.00
		4.00

Expanded Functions Certificate Total **4.00**
Gainful employment information for the Dental Assisting Expanded Functions program is located at www.eicc.edu/gainfulemployment

COMMUNITY DENTAL HEALTH COORDINATOR (CDHC) CERTIFICATE

Student must be certified by the Dental Assisting National Board (DANB), a registered Dental Hygienist, or possess two years of documented clinical Iowa registered dental assisting experience and complete a written assessment at 75% competency.
All courses are offered in the online format only.

TERM 1		Credits
CDH:101	Dental Health Legal and Ethical Issues	3.00
CDH:105	Oral Health Communication	2.00
CDH:110	Interviewing Skills for Dental Health Advocate	3.00
		8.00

TERM 2		
CDH:201	Dental Care Finance	1.00
CDH:205	Dental Health Advocacy and Outreach	4.00
CDH:901	Internship	3.00
		8.00

**Community Dental Health Coordinator (CDHC)
Certificate Total** **16.00**
Gainful employment information for the Community Dental Health Coordinator(CDHC) program is located at
www.eicc.edu/gainfulemployment

DIESEL TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

Diesel Technology is a two-year program admitting students in the Fall and Spring semester every year. Students are prepared to diagnose, adjust, repair, or overhaul buses and trucks, and maintain and repair any type of diesel engines. Program graduates will have a working knowledge of hydraulic systems, and computers, and good electrical troubleshooting skills.

The program curriculum is written to ASE standards and graduates are prepared to pass ASE certification exams in the following seven areas: Brakes, Diesel Engines, Suspension and Steering, Drive Train, Electrical/Electronics Systems, Heating, Ventilation and Air Conditioning, and Preventive Maintenance Inspection.

The Diesel Technology program has achieved certification from the ASE Education Foundation.

DIESEL TECHNOLOGY - FALL START AAS DEGREE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:164	Automotive Engine Repair	4.00
COM:102	Communication Skills **OR**	3.00
ENG:105	Composition I	
DSL:505	Heavy Duty Drive Train I	3.00
DSL:507	Heavy Duty Drive Train II	3.00
DSL:603	Hydraulics	2.00
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
		19.00

Term 1 Optional Course

DSL:103	Survey of Diesel Technology	1.50

TERM 2

AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
DSL:151	Truck Electrical Systems	2.00
DSL:435	Diesel Fuel Systems I	3.00
DSL:437	Diesel Fuel Systems II	4.00
DSL:815	Preventative Maintenance	1.00
		16.00

TERM 3 - SUMMER

DSL:340	Diesel Engine Repair	5.00
DSL:625	Heavy Duty Alignment	3.00
		8.00

TERM 4

		Credits
DSL:201	Basic Gas Engine Performance	2.00
DSL:629	Heavy Duty Brakes and Service	3.00
DSL:905	Cooperative Experience	2.00
HUM:105	Working in America **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
WEL:331	Welding Fundamentals	2.00
		12.00

TERM 5

BCA:188	Computer Fundamentals for Technicians **OR**	3.00
BUS:102	Introduction to Business	
DSL:519	Automatic Drive Train	4.00
DSL:710	Heating, Air Conditioning and Refrigeration	4.00
DSL:905	Cooperative Experience	2.00
		13.00

Diesel Technology - Fall Start AAS Total 68.00

DIESEL TECHNOLOGY - SPRING START AAS DEGREE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
DSL:151	Truck Electrical Systems	2.00
DSL:435	Diesel Fuel Systems I	3.00
DSL:437	Diesel Fuel Systems II	4.00
DSL:815	Preventative Maintenance	1.00
		17.00

TERM 2 - SUMMER

DSL:340	Diesel Engine Repair	5.00
DSL:625	Heavy Duty Alignment	3.00
		8.00

TERM 3

AUT:164	Automotive Engine Repair	4.00
COM:102	Communication Skills **OR**	3.00
ENG:105	Composition I	
DSL:505	Heavy Duty Drive Train I	3.00
DSL:507	Heavy Duty Drive Train II	3.00
DSL:603	Hydraulics	2.00
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
		18.00

TERM 4

BCA:188	Computer Fundamentals for Technicians **OR**	3.00
BUS:102	Introduction to Business	
DSL:519	Automatic Drive Train	4.00
DSL:710	Heating, Air Conditioning and Refrigeration	4.00
DSL:905	Cooperative Experience	2.00
		13.00

DIESEL TECHNOLOGY (CONTINUED)

TERM 5 - SUMMER

		Credits
DSL:201	Basic Gas Engine Performance	2.00
DSL:629	Heavy Duty Brakes and Service	3.00
DSL:905	Cooperative Experience	2.00
HUM:105	Working in America **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
WEL:331	Welding Fundamentals	2.00
		12.00

Diesel Technology - Spring Start AAS Total........................... **68.00**

DIESEL TECHNOLOGY DIPLOMA

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:164	Automotive Engine Repair	4.00
COM:102	Communication Skills **OR**	3.00
ENG:105	Composition I	
DSL:505	Heavy Duty Drive Train I	3.00
DSL:507	Heavy Duty Drive Train II	3.00
DSL:603	Hydraulics	2.00
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
		19.00

TERM 2

AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
DSL:151	Truck Electrical Systems	2.00
DSL:435	Diesel Fuel Systems I	3.00
DSL:437	Diesel Fuel Systems II	4.00
DSL:815	Preventative Maintenance	1.00
		16.00

TERM 3 - SUMMER

DSL:340	Diesel Engine Repair	5.00
DSL:625	Heavy Duty Alignment	3.00
		8.00

Diesel Technology Diploma.. **43.00**
Gainful employment information for the Diesel Technology program is located at www.eicc.edu/gainfulemployment

HEAVY DUTY TRAIN CERTIFICATE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:164	Automotive Engine Repair	4.00
COM:102	Communication Skills **OR**	3.00
ENG:105	Composition I	
DSL:505	Heavy Duty Drive Train I	3.00
DSL:507	Heavy Duty Drive Train II	3.00
DSL:603	Hydraulics	2.00
MAT:104	Applied Math Topics **OR**	3.00
MAT:110	Math for Liberal Arts	
		19.00

Heavy Duty Train Certificate Total.. **19.00**
Gainful employment information for the Heavy Duty Train program is located at www.eicc.edu/gainfulemployment

TRUCK ELECTRICAL CERTIFICATE

TERM 1

		Credits
AUT:115	Automotive Shop Safety	1.00
AUT:606	Basic Automotive Electricity/Electronics	3.00
AUT:614	Automotive Electrical I	3.00
DSL:151	Truck Electrical Systems	2.00
DSL:435	Diesel Fuel Systems I	3.00
DSL:437	Diesel Fuel Systems II	4.00
DSL:815	Preventative Maintenance	1.00
		17.00

Truck Electrical Certificate Total... **17.00**
Gainful employment information for the Truck Electrical program is located at www.eicc.edu/gainfulemployment

EARLY CHILDHOOD EDUCATION

CAMPUS MUSCATINE AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Early Childhood Education program is designed to provide students with a comprehensive background in early childhood education. Meaningful, on-site, practical experiences along with lecture, hands-on learning and theory round out the basic education provided.

EARLY CHILDHOOD EDUCATION AAS DEGREE

TERM 1

		Credits
ECE:103	Introduction to Early Childhood Education*	3.00
ECE:133	Child Health, Safety, and Nutrition*	3.00
ECE:158	Early Childhood Curriculum I*	3.00
ECE:170	Child Growth and Development*	3.00
ECE:243	Early Childhood Guidance*	3.00
ENG:105	Composition I **OR**	3.00
COM:102	Communication Skills	
		18.00

Early Childhood Education Certificate Total **18.00**
Gainful employment information for the Early Childhood Education program is located at www.eicc.edu/gainfulemployment

TERM 2

		Credits
ECE:159	Early Childhood Curriculum II*	3.00
EDU:220	Human Relations for the Classroom Teacher	3.00
EDU:235	Children's Literature	3.00
EDU:245	Exceptional Learner	3.00
___:___	Humanities Electives****	3.00
		15.00

Early Childhood Education Diploma Total **33.00**
Gainful employment information for the Early Childhood Education program is located at www.eicc.edu/gainfulemployment

TERM 3 - SUMMER

		Credits
ECE:920	Field Experience/ECE**	2.00
		2.00

TERM 4

		Credits
ECE:169	Art and Music Activities for Young Children	3.00
ECE:193	Dynamics of the Family	3.00
ECE:920	Field Experience/ECE**	2.00
SDV:174	Critical and Creative Thinking	3.00
BUS:110	Business Math and Calculators [3.00 credits] **OR**	3.00 – 4.00
ENV:111	Environmental Science [4.00 credits] **OR**	
ENV:115	Environmental Science [3.00 credits]	
CSC:110	Introduction to Computers **OR**	3.00
SPC:170	Professional Communication	
		17.00 – 18.00

TERM 5

ECE:221	Infant/Toddler Care and Education	3.00
ECE:290	Early Childhood Program Administration	3.00
ECE:920	Field Experience/ECE**	2.00
___:___	Early Childhood Electives***	6.00
		14.00

Early Childhood Education AAS Total .... **66.00 - 67.00**

*CDA Certification Coursework

**Students may be subject to release of information and criminal background check by each cooperative site prior to beginning their work cooperative experience.

***EARLY CHILDHOOD ELECTIVES
(Select two courses from the following)

PSY:121	Developmental Psychology	3.00
BUS:102	Introduction to Business	3.00
ECE:168	Science and Math Activities for Young Children	3.00
EDU:125	Making a Difference	3.00
EDU:212	Educational Foundations	3.00
EDU:255	Technology in the Classroom	3.00
SDV:114	Strategies for Academic Success	3.00

****HUMANITIES ELECTIVES
(Select one course from the following)

HUM:105	Working in America	3.00
HUM:287	Leadership Development Studies	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

ELECTRONEURODIAGNOSTIC TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

The Electroneurodiagnostic Technology program prepares students to conduct electroneurodiagnostic (END) tests such as electroencephalograms, evoked potentials, polysomnograms, and electronystagmograms. This scientific field is devoted to the recording and study of electrical activity of the brain and nervous system. Used for medical evaluation and research, it includes procedures that assess the function of the nervous system.

The Electroneurodiagnostic Technology (END) program is no longer accepting new students.

ELECTRONEURODIAGNOSTIC TECHNOLOGY AAS DEGREE

PREREQUISITE COURSES

		Credits
ENG:105	Composition I	3.00
HIT:139	Math for Health Care Professionals	3.00
HSC:113	Medical Terminology	2.00
		8.00

TERM 1

BIO:168	Human Anatomy & Physiology I	4.00
END:111	Introduction to Electroneurodiagnostics	6.00
END:211	Electronics and Instrumentation	4.00
HIT:422	Medico–Legal Ethics	3.00
		17.00

TERM 2

BIO:173	Human Anatomy & Physiology II	4.00
CSC:110	Introduction to Computers **OR**	3.00
SPC:112	Public Speaking	
END:301	Electroneurodiagnostics I	6.00
END:330	Electroneurodiagnostic Clinical Science	2.00
END:800	Clinical Practicum I	2.00
		17.00

TERM 3

BIO:225	Neuroanatomy	3.00
END:320	Electroneurodiagnostics II	2.00
END:820	Clinical Practicum II	4.00
		9.00

TERM 4

		Credits
END:340	Electroneurodiagnostics III	3.00
END:345	Special Studies	4.00
END:402	Nerve Conduction Studies	4.00
END:840	Clinical Practicum III	4.00
PSY:111	Introduction to Psychology	3.00
		18.00

TERM 5

END:510	Polysomnography	4.00
END:860	Clinical Practicum IV	8.00
		12.00

Electroneurodiagnostic Technology AAS Total 81.00

EMERGENCY MEDICAL SERVICES

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND CERTIFICATE

The Clinton, Muscatine and Scott Community College Emergency Medical Services (EMS) programs prepare students for successful completion of the Iowa/National Emergency Medical Technician Basic and Paramedic certifying exams. The EMS program provides graduates with the tools to adapt to public expectations and to take leadership roles in the evolution of prehospital patient care.

EMERGENCY MEDICAL SERVICES AAS DEGREE

TERM 1

		Credits
EMS:202	Emergency Medical Technician	9.50
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
HSC:113	Medical Terminology	2.00
MAT:___	Math Elective (Above 100 level)	3.00 – 4.00
		17.50 – 18.50

TERM 2

BIO:168	Human Anatomy and Physiology I	4.00
BUS:102	Introduction to Business	3.00
BUS:161	Human Relations	3.00
PNN:210	Pharmacology–Module A	1.00
PNN:211	Pharmacology–Module B	1.00
PSY:121	Developmental Psychology	3.00
		15.00

TERM 3

EMS:238	Advanced Emergency Medical Technician	15.00
		15.00

TERM 4

CSC:110	Introduction to Computers	3.00
EMS:810	Advanced Cardiac Life Support	1.00
EMS:815	Advanced Pediatric Life Support	1.00
EMS:816	Pediatric Education for Prehospital Professionals	1.00
EMS:817	Basic Cardiac Life Support Instructor	1.00
EMS:818	Neonatal Resuscitation Provider	1.00
EMS:820	Prehospital Trauma Life Support	1.00
SOC:110	Introduction to Sociology	3.00
SPC:112	Public Speaking	3.00
		15.00

Emergency Medical Services AAS Total...................62.50 – 63.50

EMERGENCY MEDICAL TECHNICIAN CERTIFICATE

TERM 1

		Credits
EMS:202	Emergency Medical Technician	9.50
		9.50

Emergency Medical Technician Certificate Total..................9.50
Gainful employment information for the Emergency Medical Technician program is located at www.eicc.edu/gainfulemployment

Student who successfully completes this Certificate program is eligible to sit for the National Registry EMT certification exam.

ADVANCED EMERGENCY MEDICAL TECHNICIAN CERTIFICATE

TERM 1

		Credits
EMS:202	Emergency Medical Technician	9.50
		9.50

TERM 2

EMS:238	Advanced Emergency Medical Technician	15.00
		15.00

Advanced Emergency Medical Technician Certificate Total 24.50
Gainful employment information for the Advanced Emergency Medical Technician program is located at www.eicc.edu/gainfulemployment

Student who successfully completes this Certificate program is eligible to sit for the National Registry AEMT certification exam.

ENGINEERING TECHNOLOGY

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Engineering Technology program trains students to be specialists in the practical application and implementation of existing technology within the field of engineering. The program provides a great deal of flexibility, making it ideal for students coming out of high school as well as those already in the workforce. It includes flexible scheduling, hybrid courses (a combination of in-class and online learning), and a model of eight-week modules that allow numerous start times during the year.

The first four terms of the program provide a common core, after which student can choose coursework in the fifth term to specialize in Automation, Electromechanical or Process Control.

ENGINEERING TECHNOLOGY AAS DEGREE

TERM 1 - ALL CONCENTRATIONS

		Credits
ELE:101	Industrial Safety	1.00
ELE:216	DC Circuit Analysis	3.00
ELE:217	AC Circuit Analysis	3.00
IND:134	Print Reading	2.00
MAT:128	Precalculus [4.00 credits] **OR**	4.00
MAT:210	Calculus I [4.00 credits] **OR**	
MAT:705	Industrial Math and Measurement I [2.00 credits] **AND**	
MAT:706	Industrial Math and Measurement II [2.00 credits]	
		13.00

Basic Electricity Certificate Total **13.00**
Gainful employment information for the Engineering Technology program is located at www.eicc.edu/gainfulemployment

TERM 2 - ALL CONCENTRATIONS

		Credits
CSC:110	Introduction to Computers [3.00 credits] **OR**	3.00 – 4.00
CSC:112	Computer Fundamentals for Technicians I/A [2.00 credits] **AND**	
CSC:113	Computer Fundamentals for Technicians I/B [2.00 credits]	
ELE:225	Electrical Motor Control & Power Distribution	3.00
ELT:309	Digital Circuits	3.00
ELT:312	Solid State Devices and Systems	3.00
PHY:185	Conceptual Physics Fundamentals I	2.00
		14.00–15.00

Basic Electronics Certificate .... **27.00 - 28.00**
Gainful employment information for the Engineering Technology program is located at www.eicc.edu/gainfulemployment

TERM 3 - SUMMER - ALL CONCENTRATIONS

		Credits
___:___	Humanities Elective**	3.00
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
PHY:186	Conceptual Physics Fundamentals II	2.00
		8.00

Engineering Technology Electromechanical Diploma Total .... **35 .00 - 36.00**
Gainful employment information for the Engineering Technology program is located at www.eicc.edu/gainfulemployment

TERM 4 - ALL CONCENTRATIONS

		Credits
EGT:117	Fluid Power Fundamentals	2.00
ELT:123	Programmable Logic Controllers	3.00
ELT:125	Advanced PLC	3.00
IND:143	Motors and Drives	3.00
MFG:505	Lean Manufacturing	1.00
		12.00

TERM 5 - AUTOMATION CONCENTRATION

ATR:105	Industrial Robotics	3.00
ATR:106	Motion Control	3.00
ELT:177	Microcontrollers	3.00
(Select two courses from the following)		
CHM:122	Introduction to General Chemistry	4.00
EGT:137	Fluid Power Control	4.00
EGT:145	Fluid Power Maintenance	4.00
IND:136	Process Control I	3.00
IND:137	Process Control II	3.00
		15.00 – 17.00

TERM 5 - ELECTROMECHANICAL CONCENTRATION

ATR:106	Motion Control	3.00
EGT:137	Fluid Power Control	4.00
EGT:145	Fluid Power Maintenance	4.00
(Select two courses from the following)		
ATR:105	Industrial Robotics	3.00
CHM:122	Introduction to General Chemistry	4.00
ELT:177	Microcontrollers	3.00
IND:136	Process Control I	3.00
IND:137	Process Control II	3.00
		17.00 – 18.00

TERM 5 - PROCESS CONTROL CONCENTRATION

CHM:122	Introduction to General Chemistry	4.00
IND:136	Process Control I	3.00
IND:137	Process Control II	3.00
(Select two courses from the following)		
ATR:105	Industrial Robotics	3.00
ATR:106	Motion Control	3.00
EGT:137	Fluid Power Control	4.00
EGT:145	Fluid Power Maintenance	4.00
ELT:177	Microcontrollers	3.00
		16.00 – 18.00

Engineering Technology AAS Total .... **62.00 - 66.00**

**HUMANITIES ELECTIVES
(Select one course from the following)

ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

ELECTRICAL SYSTEMS CERTIFICATE

TERM 1		**Credits**
CSC:112	Computer Fundamentals for Technicians I/A	2.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
ELE:101	Industrial Safety	1.00
ELE:216	DC Circuit Analysis	3.00
ELE:217	AC Circuit Analysis	3.00
MAT:705	Industrial Math and Measurement I	2.00
MFG:505	Lean Manufacturing	1.00
		14.00

TERM 2		**Credits**
ATR:105	Industrial Robotics	3.00
ELE:225	Electrical Motor Control & Power Distribution	3.00
ELT:123	Programmable Logic Controllers	3.00
ELT:309	Digital Circuits	3.00
ELT:312	Solid State Devices and Systems	3.00
		15.00

TERM 3		
ATR:106	Motion Control	3.00
ELT:125	Advanced PLC	3.00
IND:143	Motors and Drives	3.00
		9.00

Electrical Systems Certificate Total..................................... **38.00**
Gainful employment information for the Engineering Technology
program is located at www.eicc.edu/gainfulemployment

PROCESS CONTROL TECHNOLOGY CERTIFICATE

TERM 1		**Credits**
ELE:101	Industrial Safety	1.00
ELE:216	DC Circuit Analysis	3.00
ELE:217	AC Circuit Analysis	3.00
IND:134	Print Reading	2.00
MAT:705	Industrial Math and Measurement I	2.00
MAT:706	Industrial Math and Measurement II	2.00
		13.00

TERM 2		
CHM:122	Introduction to General Chemistry	4.00
ELE:225	Electrical Motor Control & Power Distribution	3.00
ELT:312	Solid State Devices and Systems	3.00
IND:136	Process Control I	3.00
		13.00

TERM 3		
IND:137	Process Control II	3.00
		3.00

Term 3 Optional Course

EGT:902	Coop/Internship	2.00

Process Control Technology Certificate Total..................... **29.00**
Gainful employment information for the Engineering Technology
program is located at www.eicc.edu/gainfulemployment

ENVIRONMENTAL, HEALTH AND SAFETY

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE. DIPLOMA, AND CERTIFICATE

The Environmental, Health and Safety (EHS) program prepares students to be safety and environmental technicians who protect employees and the public by controlling hazards in the workplace. EHS professionals apply the principles of math, science, engineering, communications and economics to the protection of people, property and the environment. The EHS program focuses on environmental, health and safety regulations and compliance. Graduates are trained to assist an organization in the management of hazardous materials and wastes, to protect workers and the environment, and to minimize the organization's Worker's Compensation. The entire degree and various certificates can be completed online.

ENVIRONMENTAL, HEALTH AND SAFETY AAS DEGREE

TERM 1

		Credits
HSE:100	Occupational Safety	3.00
HSE:105	Characteristics of Hazardous Materials	3.00
HSE:110	Industrial Processes	3.00
HSE:200	Waste and Remediation*	3.00
CHM:122	Introduction to General Chemistry	4.00
		16.00

Environmental, Health and Safety Certificate Total 16.00
*The Resource Conservation Recovery Act (RCRA) Certificate is embedded in HSE:200. Certification is awarded upon complete of the course.

Gainful employment information for the Environmental, Health and Safety program is located at www.eicc.edu/gainfulemployment

TERM 2

		Credits
HSE:205	Air and Water Quality	3.00
HSE:280	Hazardous Materials Health Effects	3.00
HSE:230	Transportation of Hazardous Materials**	3.00
HSE:270	Sampling & Monitoring Procedures	4.00
ENG:107	Composition I:Technical Writing **OR**	3.00
ENG:105	Composition I	
		16.00

Environmental, Health and Safety Diploma Total 32.00
**The DOT Hazardous Material Certificate is embedded in HSE:230. Certification is awarded upon complete of the course.

Gainful employment information for the Environmental, Health and Safety program is located at www.eicc.edu/gainfulemployment

TERM 3

		Credits
HSE:225	Legal Aspects of Occupational Safety and Health	3.00
ENG:106	Composition II **OR**	3.00
ENG:108	Composition II: Technical Writing	
CSC:110	Introduction to Computers **OR**	3.00
CSC:107	Computer Literacy	
HSE:210	Contingency Planning/Incident Management	3.00
CHM:132	Introduction to Organic and Biochemistry	4.00
		16.00

TERM 4

HSE:285	Industrial Hygiene	3.00
ENV:111	Environmental Science	4.00
MAT:104	Applied Math Topics	3.00
SPC:112	Public Speaking	3.00
HUM:110	Changes and Choices **OR**	3.00
PSY:111	Introduction to Psychology **OR**	
SOC:110	Introduction to Sociology	
		16.00

**Environmental, Health and Safety
AAS Total 64.00**

Students are recommended to sit for their OSHA certifications separate from Environmental, Health and Safety courses.

Students enrolled in the Environmental, Health and Safety program can complete the OSHA certification through EICC''s Continuing Education courses at a reduced cost of half-price.

Recommended progression of OSHA Certification
  Upon completion of Term 1
  · OSHA 10-hour Construction
  · OSHA 10-hour General Industry
  Upon completion of Term 2
  · OSHA 24-hour Spill Response
  · OSHA 40-hour Waste Site Worker
  Upon completion of Term 4
  · OSHA 30-hour Construction
  · OSHA 30-hour General Industry

FARM MANAGEMENT

CAMPUS MUSCATINE COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

The Farm Management program is a comprehensive two-year agricultural production program that includes professional training in the classroom and real world experiences. The areas of marketing, risk management, and financial management are emphasized.

FARM MANAGEMENT AAS DEGREE

Students pursuing this AAS will have the option to work with swine (swine option) or not (non-swine option).

TERM 1		Credits
AGB:108	Human Relations I	1.50
AGB:301	Applied Accounting Farm Management I	1.50
AGC:861	Farm Experience I	3.00
AGS:315	Principles of Animal Nutrition	3.00
AGS:352	Genetics	1.50
SPC:170	Professional Communication **OR**	3.00
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	

Swine Option

AGS:401	Swine Production [3.00 credits]	3.00 – 3.25

Non-Swine Option

AGA:881	Grain Science [1.75 credits] **AND**	
AGB:103	Agricultural Economics [1.50 credits]	
		16.50 – 16.75

TERM 2		
AGA:210	Corn and Soybean Production	3.00
AGA:285	Crop Protection	3.00
AGB:302	Applied Accounting Farm Mgt II	1.50
AGC:862	Farm Experience II	3.00
AGC:918	Seminar I	1.00
MAT:104	Applied Math Topics	3.00
		14.50

TERM 3 - SUMMER		
AGA:336	Forage Production	1.50
AGA:373	Integrated Crop Management	2.00
AGC:103	Ag Computers **OR**	3.00
CSC:110	Introduction to Computers	
		6.50

Term 3 Optional Course

AGM:160	Farm Structures	1.50

TERM 4		Credits
AGA:182	Introduction to Soil Science	3.00
AGB:304	Agricultural Finance	1.50
AGB:305	Agricultural Law	1.50
AGB:299	Farm Business Analysis	1.50
AGC:864	Farm Experience III	3.00
AGB:231	Futures and Options	1.50
AGA:901	Seed Science [1.50 credits] **OR**	1.50 – 3.00
AGS:554	Beef Production [3.00 credits]	
		13.50 – 15.00

Term 4 Optional Courses

AGS:324	Dairy Production	1.50
AGS:410	Swine Production II	1.50

TERM 5		
AGB:232	Livestock and Grain Marketing	3.00
AGB:306	Risk Management	1.50
AGC:865	Farm Experience IV	3.00
AGC:919	Seminar II	1.00
AGM:157	Machinery Management	3.00
AGP:243	Precision Agricultural Applications	3.00
AGA:390	Introduction to Renewable Resources **OR**	3.00
ENV:115	Environmental Science	
		17.50

Term 5 Optional Courses

AGA:349	Fertilizers	1.50
AGM:130	Farm Electrification	1.50
AGM:423	Equipment & Diesel Performance	2.00
AGS:180	Sheep Production	1.50

Farm Management AAS Total .... **68.50 - 70.25**

GRAPHIC ARTS TECHNOLOGY

CAMPUS CLINTON COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND DIPLOMA

The Graphic Arts Technology Program provides training for students with an interest in the field of graphic arts. Student will learn to prepare typescript and graphic elements using computer software to produce publication-ready material.

GRAPHIC ARTS TECHNOLOGY AAS DEGREE

TERM 1

		Credits
ART:120	2-D Design	3.00
GRA:103	Introduction to Macintosh	1.00
GRA:173	Typography	3.00
GRD:463	Photoshop	3.00
GRT:107	Introduction to Graphic Arts Technology	3.00
GRT:169	Color Theory	2.00
		15.00

Term 1 Optional Course

GRA:134	Digital Photography	3.00

TERM 2

ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
GRD:415	InDesign I	3.00
GRD:459	Illustrator	3.00
GRT:110	Calculations and Measurements for Graphic Arts	3.00
WDV:101	Intro HTML and CSS	3.00
___:___	Term 2 Elective*	3.00
		18.00

Graphic Arts Technology Diploma Total **33.00**
Gainful employment information for the Graphic Arts Technology program is located at www.eicc.edu/gainfulemployment

TERM 3

		Credits
ART:101	Art Appreciation **OR**	3.00
ART:133	Drawing **OR**	
MUS:100	Music Appreciation	
GRT:245	Issues in Graphic Arts Technology	3.00
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Principles of Sociology	
___:___	Term 3 Electives**	6.00 –7.00
		15.00 – 16.00

TERM 4

		Credits
BUS:102	Introduction to Business **OR**	3.00
MKT:110	Principles of Marketing **OR**	
MKT:150	Principles of Advertising	
GRT:266	Technology Changes in the Graphic Arts	2.00
GRT:805	Graphic Arts Process Production Co-op	5.00
___:___	Term 4 Elective***	3.00
GRA:900	Portfolio	3.00
		16.00

Graphic Arts Technology AAS Total ....**64.00 - 65.00**

*TERM 2 ELECTIVES

(Select one course from the following)

		Credits
CSC:110	Introduction to Computers	3.00
ART:161	Digital Art	3.00
CIS:140	Introduction to Game Design	3.00
JOU:172	Intermediate Photography	3.00
JOU:941	Practicum	3.00
NET:303	Windows Workstation Operating Systems	3.00
WDV:155	Web Prototyping	3.00

**TERM 3 ELECTIVES

(Select two courses from the following)

		Credits
CIS:606	Visual BASIC.NET I	3.00
GRA:134	Digital Photography	3.00
GRD:430	InDesign II	3.00
GRT:230	Color Correction	3.00
GRT:237	Packaging Design	3.00
JOU:120	Beginning Newswriting	3.00
JOU:941	Practicum	3.00
NET:167	Computer Systems and Troubleshooting	4.00
WDV:261	Flash	3.00
WDV:245	Content Management Systems I	3.00
WDV:221	JavaScript	3.00

***TERM 4 ELECTIVES

(Select one course from the following)

		Credits
CIS:140	Introduction to Game Design	3.00
CSC:110	Introduction to Computers	3.00
GRT:222	Acrobat	3.00
NET:303	Windows Workstation Operating Systems	3.00
WDV:155	Web Prototyping	3.00

HEALTH INFORMATICS

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE DIPLOMA AND CERTIFICATE

The Health Informatics program focuses on the application of computer science and software engineering to medical research and clinical information technology support, and the development of advanced imaging , database, and decision systems ..

The Health Informatics program is no longer accepting new students.

INFORMATICS DIPLOMA

TERM 1

		Credits
CSC:110	Introduction to Computers	3.00
HIT:120	Pharmacology for HIT	1.00
HIT:312	Health Informatics and Information Management Systems	3.00
HSC:113	Medical Terminology	2.00
HSC:125	Survey of Anatomy for Allied Health	2.00
INF:250	eHealth Data Analytics	3.00
		14.00

TERM 2

HIT:150	Principles of Disease	2.00
HIT:160	Principles of Disease II	3.00
INF:255	eHealth Data Management	3.00
INF:260	eHealth Information Security and Privacy	3.00
INF:265	Applied System Analysis and Design in eHealth	3.00
INF:270	Health Informatics Practicum	2.00
SPC:170	Professional Communication	3.00
		19.00

TERM 3

HIT:250	Coding I	3.00
HIT:251	Coding II	3.00
HIT:380	Helath Records in Alternate Care Settings	3.00
HIT:596	HIT Practicum I	2.00
PSY:211	Psychology of Adjustment	3.00
		14.00

Informatics Diploma Total... **47.00**
Gainful employment information for the Health Informatics program is located at www.eicc.edu/gainfulemployment

INFORMATICS CERTIFICATE

TERM 1

		Credits
CSC:110	Introduction to Computers	3.00
HIT:312	Health Informatics and Information Management Systems	3.00
HSC:113	Medical Terminology	2.00
HSC:125	Survey of Anatomy for Allied Health	2.00
INF:250	eHealth Data Analytics	3.00
		13.00

TERM 2

HIT:150	Principles of Disease	2.00
HIT:160	Principles of Disease II	3.00
INF:255	eHealth Data Management	3.00
INF:260	eHealth Information Security and Privacy	3.00
INF:265	Applied System Analysis and Design in eHealth	3.00
INF:270	Health Informatics Practicum	2.00
SPC:170	Professional Communication	3.00
		19.00

Informatics Certificate Total... **32.00**
Gainful employment information for the Health Informatics program is located at www.eicc.edu/gainfulemployment

HEALTH INFORMATION TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE AND DIPLOMA

The Health Information Technology program prepares technicians to be the individuals who compile the data for medical-related agencies. They determine specifically how that data is compiled and reported to insurance companies, government agencies and others for reimbursement, research, and quality monitoring. Graduates can be employed in nearly every medical setting: hospitals, outpatient clinics, nursing homes, health insurance organizations, physician's offices, hospices and mental health facilities.

The Health Information Technology Associate degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

HEALTH INFORMATION TECHNOLOGY AAS DEGREE

TERM 1

		Credits
BIO:163	Essentials of Anatomy and Physiology	4.00
CSC:110	Introduction to Computers	3.00
ENG:105	Composition I	3.00
HIT:139	Math for Healthcare Professionals	3.00
HIT:370	Health Records in Acute Care	3.00
		16.00

TERM 2

HIT:120	Pharmacology for HIT	1.00
HIT:250	Coding I	3.00
HIT:251	Coding II	3.00
HIT:380	Health Records in Alternate Care Settings	3.00
HSC:113	Medical Terminology	2.00
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

TERM 3

HIT:170	Principles of Human Disease	3.00
HIT:270	ICD-10 Procedural Coding	2.00
HIT:596	HIT Practicum I	2.00
		7.00

Health Information Technology Diploma Total 38.00
Gainful employment information for the Health Information Technology program is located at www.eicc.edu/gainfulemployment

TERM 4

		Credits
HIT:312	Health Informatics and Information Management Systems	3.00
HIT:422	Medico-Legal Ethics	3.00
HIT:485	Medical Billing and Reimbursement Systems	3.00
SPC:170	Professional Communication **OR**	3.00
SPC:112	Public Speaking	
		12.00

TERM 5

HIT:252	Coding III	3.00
HIT:400	Clinical Documentation Improvement	2.00
HIT:440	Quality Management	3.00
HIT:451	Allied Health Statistics	3.00
HIT:598	HIT Practicum II	2.00
HIT:946	Seminar	1.00
		14.00

Health Information Technology AAS Total............................ 64.00

Graduates of the two year program are eligible to write for the national certification exam (Registered Health Information Technician-RHIT) given by the American Health Information Management Association.

HEATING, VENTILATION AND AIR CONDITIONING

CAMPUS SCOTT COMMUNITY COLLEGE
DEGREE DIPLOMA

The Heating, Ventilation and Air Conditioning program provides all of the skills necessary to gain meaningful employment as an entry-level Heating, Ventilation and Air Conditioning (HVAC) technician. Students obtain extensive hands-on experience in the repair, maintenance and installation of a wide variety of heating, air conditioning, refrigeration and ventilation systems.

The Heating, Ventilation and Air Conditioning program is accredited by HVAC Excellence.

HEATING, VENTILATION AND AIR CONDITIONING DIPLOMA

TERM 1

		Credits
CSC:107	Computer Literacy	3.00
HCR:260	HVAC Trade Skills I	3.00
HCR:308	Refrigeration Fundamentals	5.00
HCR:405	Basic Electricity for HVAC Technicians	5.00
		16.00

TERM 2

HCR:116	Domestic Heating	5.00
HCR:261	HVAC Trade Skills II	3.00
HCR:441	HVAC Controls and Circuitry	5.00
SPC:122	Interpersonal Communication	3.00
		16.00

TERM 3 - SUMMER

HCR:271	Advanced Domestic Heating and Air Conditioning	5.00
HCR:851	HVAC-R Industrial Safety	2.00
		7.00

Heating, Ventilation and Air Conditioning Diploma Total **39.00**
Gainful employment information for the Heating, Ventilation and Air Conditioning program is located at www.eicc.edu/gainfulemployment

HOSPITALITY MANAGEMENT

CAMPUS MUSCATINE AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

More than ever before, people have disposable income that can be put toward leisure activities such as traveling and dining out. The Hospitality Management program at Scott Community College can prepare you in nearly every aspect of this growing industry. Graduates will be ready to go to work in front–line supervision/management at hotels, restaurants, and clubs anywhere in the United States or in other countries, including luxury resorts or cruise ships.

HOSPITALITY MANAGEMENT AAS DEGREE

TERM 1

		Credits
CSC:110	Introduction to Computers	3.00
HCM:100	Sanitation and Safety	2.00
HCM:319	Introduction to Hospitality Field **OR**	3.00
HCM:589	Introduction to Restaurant Management	
HCM:931	Hospitality Internship	2.00
HCM:957	Hospitality Lab I	2.00
COM:102	Communication Skills **OR**	3.00
SPC:112	Public Speaking **OR**	
SPC:170	Professional Communication	
___:___	Hospitality Management Elective*	2.00
		17.00

Hospitality Skills Certificate Total..**17.00**
Gainful employment information for the Hospitality Management programs is located at www.eicc.edu/gainfulemployment

TERM 2

HCM:265	Mathematics for Hospitality **OR**	3.00
BUS:110	Business Math and Calculators **OR**	
MAT:140	Finite Math	
HCM:331	Workplace Human Relations **OR**	3.00
BUS:161	Human Relations	
HCM:606	Hospitality Management	3.00
HCM:931	Hospitality Internship	2.00
HCM:958	Hospitality Lab II	2.00
		13.00

TERM 3 - SUMMER

___:___	Hospitality Management Elective*	2.00
HUM:105	Working in America **OR**	3.00
HUM:110	Changes and Choices	
		5.00

Hospitality Skills Diploma Total...**35.00**
Gainful employment information for the Hospitality Management programs is located at www.eicc.edu/gainfulemployment

TERM 4

		Credits
ACC:121	Principles of Accounting I	3.00
HCM:330	Hospitality Personnel Management	3.00
HCM:931	Hospitality Internship	3.00
MKT:110	Principles of Marketing	3.00
___:___	Hospitality Management Elective*	3.00
		15.00

TERM 5

HCM:310	Hospitality Law	3.00
HCM:328	Conversational Spanish for Hospitality	3.00
HCM:931	Hospitality Internship	3.00
HCM:959	Hospitality Lab III	3.00
		12.00

Hospitality Management AAS Total..**62.00**

*HOSPITALITY MANAGEMENT ELECTIVES

		Credits
BUS:106	Employment Strategy	2.00
HCM:212	Industry Management	3.00
HCM:241	Menu Planning and Sales Promotion	3.00
HCM:280	Food Cost Accounting	3.00
HCM:301	Beverage Control	3.00
HCM:335	Introduction to Event Planning	3.00
HCM:589	Introduction to Restaurant Management	3.00
MKT:181	Customer Service Strategies	2.00
PSY:213	Industrial & Organizational Psychology	3.00

EVENT MANAGEMENT CERTIFICATE

TERM 1

		Credits
HCM:100	Sanitation and Safety	2.00
HCM:335	Introduction to Event Planning	3.00
HCM:932	Internship	2.00
		7.00

TERM 2

COM:102	Communication Skills	3.00
HCM:265	Mathematics for Hospitality	3.00
HCM:932	Internship	2.00
HCM:958	Hospitality Lab II	2.00
		10.00

TERM 3 - SUMMER

HCM:932	Internship	2.00
PSY:213	Industrial & Organizational Psychology	3.00
		5.00

Event Management Certificate Total.....................................**22.00**
Gainful employment information for the Hospitality Management programs is located at www.eicc.edu/gainfulemployment

INFORMATION TECHNOLOGY

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

Computers and information technology (IT) touch nearly every aspect of modern life. IT enables integration, communication, database management, complex computing and coordination of tasks and information. This involves many different technical applications: hardware, software, programming, networking and more. An Information Technology Technician applies practical knowledge, skills, and abilities by performing aspects of software development networking, production, troubleshooting, user support, maintenance, and systems management. EICC offers IT curriculum options that prepare students for a concentration in the following areas: Augmented and Virtual Reality, Networking fr Systems and Security, Programming, Security and Forensics, and Web Development.

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Augmented and Virtual Reality program can be found at www.eicc.edu/future-students/our-programs.

AUGMENTED AND VIRTUAL REALITY CONCENTRATION AAS DEGREE

PREREQUISITE COURSE		Credits
CSC:107	Computer Literacy	3.00
		3.00

TERM 1		
AVR:101	Introduction to EON Studio	3.00
CIS:148	3D Modeling and Character Animation	3.00
CIS:222	Games and Simulations	3.00
CIS:248	3D Modeling and Character Animation II	3.00
CIS:322	Games and Simulations II	3.00
		15.00

TERM 2		
AVR:105	Augmented and Virtual Reality Projects	7.00
BUS:167	Leadership and Professionalism	1.00
BUS:168	Leadership and Professionalism II	1.00
CIS:750	Project Management	3.00
ENG:107	Composition I: Technical Writing **OR**	3.00
ENG:105	Composition I	
		15.00

Non-credit EON Certificate Awarded
Augmented and Virtual Reality Diploma Total..................... 33.00
Gainful employment information for the Information Technology program is located at www.eicc.edu/gainfulemployment

TERM 3		Credits
BUS:130	Introduction to Entrepreneurship*	3.00
CIS:169	C#	3.00
CIS:171	Java **OR**	3.00
CIS:210	Web Development **OR**	
CIS:606	Visual BASIC.NET I	
ENG:108	Composition II: Technical Writing **OR**	3.00
PSY:213	Industrial & Organizational Psychology	
MAT:110	Math for Liberal Arts **OR**	3.00
MAT:156	Statistics	
		15.00

TERM 4		
AVR:110	Introduction to Unity	3.00
BUS:135	Managing the Entrepreneurial Venture*	3.00
BUS:147	The Successful Entrepreneur*	3.00
HUM:105	Working in America **OR**	3.00
HUM:183	Living with Space, Time and Technology	
SPC:170	Professional Communication **OR**	3.00
SPC:112	Public Speaking	
		15.00

Augmented and Virtual Reality Concentration
AAS Total 63.00

* NOTE: Business (BUS) courses in Term 3 and Term 4 lead to EICC's Entrepreneurship Certificate (9 cr.).

INFORMATION TECHNOLOGY DATABASE CONCENTRATION AAS DEGREE

The Information Technology Database Concentration program is no longer accepting new students.

TERM 1		Credits
CIS:121	Introduction to Programming Logic	3.00
CIS:606	Visual BASIC.NET I	3.00
CSC:110	Introduction to Computers	3.00
MAT:110	Math for Liberal Arts	3.00
NET:303	Windows Workstation Operating Systems	3.00
		15.00

TERM 2		
CIS:169	C#	3.00
CIS:185	Oracle Academy: Database Design	5.00
CIS:210	Web Development I	3.00
ENG:107	Composition I: Technical Writing	3.00
HUM:183	Living with Space, Time and Technology	3.00
		17.00

TERM 3		
BUS:167	Leadership and Professionalism	1.00
CIS:149	Advanced MS Access	3.00
CIS:186	Academy: Database Development with SQL	5.00
CIS:353	Database Models and Design Strategies	3.00
CIS:750	Project Management	3.00
		15.00

TERM 4		Credits
BUS:168	Leadership and Professionalism II	1.00
CIS:196	Oracle Database Programming with PL/SQL	5.00
CIS:331	Microsoft SQL Server	3.00
NET:860	Information Technology Specialist Capstone	3.00
NET:932	Internship	3.00
		15.00

**Information Technology
Database Concentration AAS Total**... **62.00**

NETWORKING FOR SYSTEMS AND SECURITY CONCENTRATION AAS DEGREE

TERM 1		Credits
BUS:167	Leadership and Professionalism	1.00
NET:159	Cisco Packet Tracer	1.00
NET:167	Computer Systems and Troubleshooting	4.00
NET:198	Networking I	5.00
NET:303	Windows Workstation Operating Systems	3.00
NET:679	TCP/IP and Subnetting	1.00
NET:785	Fundamentals of Desktop Support	3.00
		18.00

TERM 2		
BUS:168	Leadership and Professionalism II	1.00
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
NET:280	Copper, Fiber and Wireless Connectivity	3.00
NET:298	Networking II	5.00
NET:313	Windows Server	3.00
NET:420	Introduction to Linux OS	3.00
		18.00

TERM 3		
NET:299	IP Telephony (VoIP)	2.00
NET:398	Networking III	5.00
NET:498	Networking IV	5.00
NET:947	Seminar	1.00
		13.00

TERM 4		
CSC:110	Introduction to Computers	3.00
MAT:110	Math for Liberal Arts	3.00
NET:932	Internship **OR**	3.00
NET:860	Information Technology Specialist Capstone	
PHI:105	Introduction to Ethics **OR**	3.00
HUM:183	Living with Space, Time and Technology **OR**	
HUM:110	Changes and Choices **OR**	
PHI:110	Introduction to Logic	
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

**Networking for Systems and Security Concentration
AAS Total** **64.00**

NETWORKING FOR SYSTEMS AND SECURITY DIPLOMA

TERM 1		Credits
BUS:167	Leadership and Professionalism	1.00
NET:159	Cisco Packet Tracer	1.00
NET:167	Computer Systems and Troubleshooting	4.00
NET:198	Networking I	5.00
NET:303	Windows Workstation Operating Systems	3.00
NET:679	TCP/IP and Subnetting	1.00
NET:785	Fundamentals of Desktop Support	3.00
		18.00

TERM 2		
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
NET:280	Copper, Fiber and Wireless Connectivity	3.00
NET:298	Networking II	5.00
NET:313	Windows Server	3.00
NET:420	Introduction to Linux OS	3.00
		17.00

**Networking for Systems and Security
Diploma Total** **35.00**
Gainful employment information for the Information Technology program is located at www.eicc.edu/gainfulemployment

NETWORKING FOR SYSTEMS AND SECURITY CERTIFICATE

TERM 1		Credits
NET:159	Cisco Packet Tracer	1.00
NET:167	Computer Systems and Troubleshooting	4.00
NET:198	Networking I	5.00
NET:303	Windows Workstation Operating Systems	3.00
NET:679	TCP/IP and Subnetting	1.00
NET:785	Fundamentals of Desktop Support	3.00
		17.00

**Networking for Systems and Security
Certificate Total** **17.00**
Gainful employment information for the Information Technology program is located at www.eicc.edu/gainfulemployment

INFORMATION TECHNOLOGY PROGRAMMING CONCENTRATION AAS DEGREE

TERM 1		Credits
CIS:121	Introduction to Programming Logic	3.00
CIS:606	Visual BASIC.NET I	3.00
CSC:110	Introduction to Computers	3.00
MAT:110	Math for Liberal Arts	3.00
NET:303	Windows Workstation Operating Systems	3.00
		15.00

TERM 2

		Credits
CIS:169	C#	3.00
CIS:185	Oracle Academy: Database Design	5.00
CIS:210	Web Development I	3.00
ENG:107	Composition I: Technical Writing	3.00
HUM:183	Living with Space, Time and Technology	3.00
		17.00

Information Technology Programming Diploma Total...... 32.00
Gainful employment information for the Information Technology
program is located at www.eicc.edu/gainfulemployment

TERM 3

		Credits
BUS:167	Leadership and Professionalism	1.00
CIS:171	Java	3.00
CIS:280	Client Side Scripting	3.00
CIS:624	.NET Development II	3.00
CIS:750	Project Management	3.00
		13.00

TERM 4

		Credits
BUS:168	Leadership and Professionalism II	1.00
CIS:224	Server Side Scripting	4.00
CIS:626	.NET Development III	3.00
NET:860	Information Technology Specialist Capstone	3.00
NET:932	Internship	3.00
WDV:132	Mobile Application Development	3.00
		17.00

**Information Technology
Programming Concentration AAS Total................................. 62.00**

INFORMATION TECHNOLOGY SECURITY AND FORENSICS CONCENTRATION AAS DEGREE

TERM 1

		Credits
BUS:167	Leadership and Professionalism	1.00
NET:159	Cisco Packet Tracer	1.00
NET:167	Computer Systems and Troubleshooting	4.00
NET:198	Networking I	5.00
NET:303	Windows Workstation Operating Systems	3.00
NET:679	TCP/IP and Subnetting	1.00
NET:785	Fundamentals of Desktop Support	3.00
		18.00

TERM 2

		Credits
BUS:168	Leadership and Professionalism II	1.00
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
NET:280	Copper, Fiber and Wireless Connectivity	3.00
NET:298	Networking II	5.00
NET:305	Introduction to Network Operating Systems	3.00
NET:420	Introduction to Linux OS	3.00
		18.00

TERM 3

		Credits
CFR:100	Introduction to Computer Forensics	3.00
CIS:750	Project Management	3.00
NET:474	Certification Preparation	1.00
NET:612	Fundamentals of Network Security	3.00
NET:619	Network Attacks: Detection, Analysis & Countermeasures	3.00
NET:635	Ethical Hacking	3.00
		16.00

TERM 4

		Credits
CSC:110	Introduction to Computers	3.00
PHI:105	Introduction to Ethics **OR**	3.00
HUM:183	Living with Space, Time and Technology **OR**	
HUM:110	Changes and Choices **OR**	
PHI:110	Introduction to Logic	
MAT:110	Math for Liberal Arts	3.00
NET:932	Internship **OR**	3.00
NET:860	Information Technology Specialist Capstone	
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

**Information Technology
Security and Forensics Concentration AAS Total............... 67.00**

NETWORKING FOR CYBERSECURITY DIPLOMA

TERM 1

		Credits
BUS:167	Leadership and Professionalism	1.00
NET:159	Cisco Packet Tracer	1.00
NET:167	Computer Systems and Troubleshooting	4.00
NET:198	Networking I	5.00
NET:303	Windows Workstation Operating Systems	3.00
NET:679	TCP/IP and Subnetting	1.00
NET:785	Fundamentals of Desktop Support	3.00
		18.00

TERM 2

		Credits
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
NET:280	Copper, Fiber and Wireless Connectivity	3.00
NET:298	Networking II	5.00
NET:305	Introduction to Network Operating Systems	3.00
NET:420	Introduction to Linux OS	3.00
		17.00

Networking for Cybersecurity Diploma Total 35.00
Gainful employment information for the Information Technology
program is located at www.eicc.edu/gainfulemployment

CYBERSECURITY CERTIFICATE

PREREQUISITE COURSE

		Credits
NET:305	Introduction to Network Operating Systems	3.00
		3.00

TERM 1

CFR:100	Introduction to Computer Forensics	3.00
NET:474	Certification Preparation	1.00
NET:612	Fundamentals of Network Security	3.00
NET:619	Network Attacks: Detection, Analysis & Countermeasures	3.00
NET:635	Ethical Hacking	3.00
		13.00

Cybersecurity Certificate Total **16.00**

Gainful employment information for the Information Technology program is located at www.eicc.edu/gainfulemployment

INFORMATION TECHNOLOGY WEB DEVELOPMENT CONCENTRATION AAS DEGREE

TERM 1

		Credits
CIS:121	Introduction to Programming Logic	3.00
CIS:606	Visual BASIC.NET I	3.00
CSC:110	Introduction to Computers	3.00
MAT:110	Math for Liberal Arts	3.00
NET:303	Windows Workstation Operating Systems	3.00
		15.00

TERM 2

CIS:169	C#	3.00
CIS:185	Oracle Academy: Database Design	5.00
CIS:210	Web Development I	3.00
ENG:107	Composition I: Technical Writing	3.00
HUM:183	Living with Space, Time and Technology	3.00
		17.00

TERM 3

BUS:167	Leadership and Professionalism	1.00
CIS:251	Fundamentals of Web Design I	3.00
CIS:280	Client Side Scripting	3.00
CIS:750	Project Management	3.00
WDV:233	Web Servers	3.00
WDV:245	Content Management Systems I	3.00
		16.00

TERM 4

		Credits
BUS:168	Leadership and Professionalism II	1.00
CIS:224	Server Side Scripting	4.00
CIS:626	.NET Development III	3.00
NET:932	Internship **OR**	3.00
NET:860	Information Technology Specialist Capstone	
WDV:132	Mobile Application Development	3.00
		14.00

Information Technology
Web Development Concentration AAS Total........................ **62.00**

MECHANICAL DESIGN TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Mechanical Design Technology program prepares students with the skills of computer-aided design (CAD), critical thinking, problem-solving, math, science, team building and communication, needed for today's manufacturing jobs.

The Mechanical Design Technology program includes proficiencies required by industry, delivered in a practical hands-on method that applies directly to the world of work.

MECHANICAL DESIGN TECHNOLOGY AAS DEGREE

TERM 1

		Credits
Session I		
CAD:286	SolidWorks – Modeling	3.00
DRF:131	Basic Drafting and Design I	3.00
MAT:142	Technical Mathematics I	1.50
Session II		
CAD:263	SolidWorks – Assembly Modeling	3.00
DRF:132	Basic Drafting and Design II	3.00
MAT:143	Technical Mathematics II	1.50
		15.00

TERM 2

		Credits
Session I		
CAD:264	SolidWorks – Detailing	4.00
CSC:112	Computer Fundamentals for Technicians I/A	2.00
MAT:144	Technical Mathematics III	1.50
Session II		
CAD:287	SolidWorks – Applications	3.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
IND:222	Geometric Tolerancing and Dimensioning	3.00
MAT:145	Technical Mathematics IV	1.50
		17.00

Mechanical Design Technology Certificate Total **32.00**
Gainful employment information for the Mechanical Design Technology program is located at www.eicc.edu/gainfulemployment

TERM 3 - SUMMER

		Credits
DRF:161	Descriptive Geometry	3.00
ENG:107	Composition I: Technical Writing	3.00
		6.00

Mechanical Design Technology Diploma Total **38.00**
Gainful employment information for the Mechanical Design Technology program is located at www.eicc.edu/gainfulemployment

TERM 4

		Credits
Session I		
DRF:331	Mechanical Drafting and Design I	3.00
EGT:161	Strength of Materials I/A	1.50
MFG:186	Plant Safety	1.00
PHY:130	Applied Physics I	1.50
Session II		
DRF:332	Mechanical Drafting and Design II	3.00
EGT:162	Strength of Materials I/B	1.50
PHY:135	Applied Physics II	1.50
		13.00

TERM 5

		Credits
Session I		
EGT:163	Strength of Materials II/A	1.50
MFG:371	Manual Projects	3.00
___:___	Social Science/Humanities Course*	3.00
Session II		
CAD:288	SolidWorks – CSWA Preparation	3.00
EGT:164	Strength of Materials II/B	1.50
MFG:372	SolidWorks/MasterCam Applications **OR**	3.00
CAD:290	Introduction to 3D Printing	
		15.00

Mechanical Design Technology AAS Total **66.00**

*SOCIAL SCIENCE/HUMANITIES COURSES

		Credits
(Select one course from the following)		
DRA:110	Introduction to Film	3.00
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
HUM:110	Changes and Choices	3.00
HUM:183	Living with Space, Time and Technology	3.00
PHI:101	Introduction to Philosophy	3.00
PHI:105	Introduction to Ethics	3.00
PHI:110	Introduction to Logic	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
REL:101	Survey of World Religions	3.00
SOC:110	Introduction to Sociology	3.00

SOLID MODELING CERTIFICATE

TERM 1		Credits
Session I		
DRF:131	Basic Drafting and Design I	3.00
Session II		
CAD:286	SolidWorks – Modeling	3.00
		6.00

TERM 2		
Session I		
CAD:263	SolidWorks – Assembly Modeling	3.00
Session II		
CAD:264	SolidWorks – Detailing	4.00
		7.00

TERM 3 - SUMMER		
Session I		
CAD:287	SolidWorks – Applications	3.00
Session II		
CAD:288	SolidWorks – CSWA Preparation	3.00
		6.00

Solid Modeling Certificate Total **19.00**
Gainful employment information for the Mechanical Design Technology program is located at www.eicc.edu/gainfulemployment

MEDICAL ASSISTANT

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE DIPLOMA

The Medical Assistant program prepares individuals to provide medical office administrative services and perform clinical duties under the supervision of physicians including patient intake and care, routine diagnostic procedures and taking patient histories. Medical assistants can work in ambulatory care settings such as physicians' offices, clinics, and group practices.

Students who successfully compete this Diploma program are eligible to sit for the National Center for Competency Testing (NCCT) Medical Assistant Certification Exam.

*This course may be offered in a hybrid format to offer flexible options for working adults.

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Medical Assistant program can be found at www.eicc.edu/future-students/our-programs.

MEDICAL ASSISTANT DIPLOMA

TERM 1   **Credits**
Session 1
BIO:163	Essentials of Anatomy and Physiology **OR**	4.00
BIO:157	Human Biology	
MAP:136	Medical Office Management*	5.00

Session 2
MAP:138	Medical Office Procedures*	5.00
SPC:170	Professional Communications **OR**	3.00
ENG:107	Composition I: Technical Writing **OR**	
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	
		17.00

WINTER TERM
Winterim
| HSC:113 | Medical Terminology | 2.00 |
| | | 2.00 |

TERM 2
Session 1
| MAP:137 | Medical Lab Procedures* | 5.00 |
| MAP:512 | Medical Assisting Pharmacology* | 2.00 |

Session 2
MAP:149	Exam Preparation*	2.00
MAP:614	Medical Assistant Externship	4.00
		13.00

Medical Assistant Diploma Total **32.00**
Gainful employment information for the Medical Assistant program is located at www.eicc.edu/gainfulemployment

NURSING

Eastern Iowa Community Colleges provide students with the choice of either the Associate Degree Nursing (ADN) program or the Practical Nursing Diploma program.

Registered nurses work to promote health, prevent disease and help patients cope with illness .The practical nurse cares for the sick, injured, convalescent, and disabled, under the supervision of physicians and registered nurses.

The Nursing program is accredited by the Iowa Board of Nursing.

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Nursing programs can be found at www. eicc.edu/future-students/our-programs.

ASSOCIATE DEGREE NURSING AAS DEGREE

PREREQUISITE COURSE

		Credits
HSC:172	Nurse Aide **OR**	3.00
	Proof of CNA designation	
		3.00

TERM 1

ADN:109	Introduction to Health Concepts	10.00
ADN:220	Pharmacology	2.00
BIO:168	Human Anatomy and Physiology I	4.00
PSY:111	Introduction to Psychology	3.00
		19.00

TERM 2

ADN:301	Holistic Health Illness Concepts	9.00
BIO:151	Nutrition	3.00
BIO:173	Human Anatomy and Physiology II	4.00
PSY:121	Developmental Psychology	3.00
		19.00

TERM 3 - SUMMER

ENG:105	Composition I	3.00
SOC:110	Introduction to Sociology	3.00
		6.00

TERM 4

		Credits
ADN:302	Holistic Family Health Concepts	10.00
ADN:451	Health Systems Concepts	3.00
BIO:186	Microbiology	4.00
		17.00

TERM 5

ADN:452	Complex Health Concepts Module A	5.00
ADN:453	Complex Health Concepts Module B	5.00
		10.00

TERM 6

ADN:905	Preceptorship	2.50
		2.50

Associate Degree Nursing AAS Total **76.50**

Students who successfully complete this AAS program are eligible to sit for the National Council Licensure Examination (NCLEX) for Registered Nursing.

PRACTICAL NURSING DIPLOMA

Proof of CNA designation

TERM 1

		Credits
BIO:168	Human Anatomy and Physiology I	4.00
PNN:165	Nursing Fundamentals Module A	5.00
PNN:166	Nursing Fundamentals Module B	5.00
PNN:210	Pharmacology Module A	1.00
PNN:211	Pharmacology Module B	1.00
PSY:111	Introduction to Psychology	3.00
		19.00

TERM 2

BIO:151	Nutrition	3.00
BIO:173	Human Anatomy and Physiology II	4.00
PNN:511	Concepts in Clinical Nursing Module A	4.00
PNN:512	Concepts in Clinical Nursing Module B	5.00
PSY:121	Developmental Psychology	3.00
		19.00

TERM 3 - SUMMER

ENG:105	Composition I	3.00
PNN:641	Transition to Practice	6.00
		9.00

Practical Nursing Diploma Total **47.00**

Students who successfully complete this Diploma program are eligible to sit for the National Council Licensure Examination (NCLEX) for Practical Nursing.

Nursing courses in the first two semesters can be taken at Clinton, Muscatine or Scott Community Colleges. Remaining nursing courses can be taken at Clinton or Scott Community Colleges.

Gainful employment information for the Nursing program is located at www.eicc.edu/gainfulemployment

RADIOLOGIC TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

The Radiologic Technology program prepares students to maintain and use the equipment and supplies necessary to demonstrate portions of the human body utilizing x-ray images for diagnostic purposes. X-ray technologists use radiation to make images of the body to aid radiologists in diagnosing a patient's illness or injury.

The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Radiologic Technology program can be found at www.eicc.edu/future-students/our-programs.

RADIOLOGIC TECHNOLOGY AAS DEGREE

PREREQUISITE COURSES

		Credits
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
HSC:113	Medical Terminology	2.00
SPC:112	Public Speaking **OR**	3.00
ENG:105	Composition I	
MAT:110	Math for Liberal Arts **OR**	3.00
HIT:139	Math for Health Care Professionals **OR**	
MAT:156	Statistics	
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		19.00

TERM 1

RAD:109	Introduction to Radiography and Patient Care	4.00
RAD:123	Radiographic Procedures I	5.00
RAD:350	Imaging	3.00
		12.00

TERM 2

RAD:143	Radiographic Procedures II	5.00
RAD:210	Clinical Education I	4.00
RAD:300	Radiographic Exposure	4.00
		13.00

TERM 3 - SUMMER

RAD:183	Special Procedures	3.00
RAD:161	Radiographic Procedures III	2.00
RAD:220	Clinical Education II	3.00
		8.00

TERM 4

		Credits
RAD:420	Radiographic Physics	4.00
RAD:500	Clinical Education III	6.00
RAD:761	Film Evaluation	3.00
RAD:850	Radiation Protection and Biology	3.00
		16.00

TERM 5

RAD:510	Clinical Education IV	6.00
RAD:738	Radiographic Pathology	2.00
RAD:790	Film Evaluation II	2.00
RAD:948	Seminiar	4.00
		14.00

Radiologic Technology AAS Total **82.00**

Students who successfully complete this AAS program are eligible to sit for the American Registry of Radiologic Technologists (ARRT) national examination.

RENEWABLE ENERGY SYSTEM SPECIALIST

CAMPUS SCOTT COMMUNITY COLLEGE
DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

The Renewable Energy Systems Specialist program focuses on the new and growing field of solar power generation, wind power generation, hydroelectric power and the creation of biofuels. Students learn electronics, circuitry and electrical theory before learning how to design systems which benefit residential, small business or industrial applications.

The first three terms of this program is identical to the Engineering Technology program after which the program courses differ. Classes are offered in an eight-week format with a flexible schedule of attendance during day and evening hours.

RENEWABLE ENERGY SYSTEM SPECIALIST AAS DEGREE

TERM 1

		Credits
ELE:101	Industrial Safety	1.00
ELE:216	DC Circuit Analysis	3.00
ELE:217	AC Circuit Analysis	3.00
IND:134	Print Reading	2.00
MAT:705	Industrial Math and Measurement I	2.00
MAT:706	Industrial Math and Measurement II	2.00
		13.00

TERM 2

CSC:110	Introduction to Computers [3.00 credits] **OR**	3.00 – 4.00
CSC:112	Fundamental Computers for Technicians I/A [2.00 credits] **AND**	
CSC:113	Fundamental Computers for Technicians I/B [2.00 credits]	
ELE:225	Electrical Motor Control & Power Distribution	3.00
ELT:309	Digital Circuits	3.00
ELT:312	Solid State Devices & Systems	3.00
PHY:185	Conceptual Physics Fundamentals I	2.00
		14.00 – 15.00

TERM 3 - SUMMER

___:___	Humanities Elective*	3.00
ENG:105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing	
PHY:186	Conceptual Physics Fundamentals II	2.00
		8.00

TERM 4

		Credits
EGT:117	Fluid Power Fundamentals	2.00
ELT:123	Programmable Logic Controllers	3.00
IND:136	Process Control I	3.00
SER:100	Introduction to Renewable Energy Applications	2.00
SER:102	History of Power Generation	3.00
SER:103	Renewable Energy Site Assessment	3.00
		16.00

TERM 5

SER:104	Residential Renewable Energy Power Systems	3.00
SER:105	Residential RE Mounting & Tower Systems	3.00
SER:108	Inverters, Chargers and Storage Devices	3.00
SER:109	Monitoring and Maintenance	3.00
SER:306	Sustainable Energy Capstone	3.00
		15.00

Renewable Energy System Specialist
AAS Total ....**66.00 - 67.00**

*HUMANITIES ELECTIVE

(Select one course from the following)

		Credits
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
POL:111	American National Government	3.00
PSY:110	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

SONOGRAPHY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

Sonography is a program that prepares individuals who under the supervision of physicians utilize medical ultrasound techniques to gather sonographic data used to diagnose a variety of conditions and diseases. The program includes instruction in obtaining, reviewing, and integrating patient histories and data; patient instruction and care; anatomic, physiologic and pathologic data recording; sonographic data processing; sonography equipment operation; and professional standards and ethics.

For admission to the Sonography program, students are required to have previously earned an Associate of Applied Science (AAS) or higher level degree in a health-related field. The application process and admission requirements for the Sonography program can be found at www.eicc.edu/future-students/our-programs.

DIAGNOSTIC MEDICAL SONOGRAPHY - FALL START AAS DEGREE

PREREQUISITE COURSES — Credits
PHY:162	College Physics I	4.00
PHY:172	College Physics II [4.00 credit] **OR**	3.00 – 4.00
RAD:800	Physics for Radiographers [3.00 credits]	
		7.00 – 8.00

TERM 1
BIO:157	Human Biology **OR**	4.00
BIO:168	Human Anatomy and Physiology I **OR**	
BIO:173	Human Anatomy and Physiology II	
ENG:105	Composition I **OR**	3.00
SPC:112	Public Speaking	
HSC:113	Medical Terminology	2.00
PHI:105	Introduction to Ethics	3.00
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

TERM 2
ADI:111	Sonography Principles & Instrumentation I	2.00
ADI:262	Sectional Anatomy for Diagnostic Imaging	3.00
ADI:321	Abdominal Sonography I	5.00
ADI:800	Sonography Clinical Education I	9.00
		19.00

TERM 3 - SUMMER
ADI:326	Abdominal Sonography II	4.00
ADI:805	Sonography Clinical Education II	6.00
		10.00

TERM 4 — Credits
ADI:211	Sonography Principles & Instrumentation II	2.00
ADI:357	Obstetrical & Gynecological Sonography	6.00
ADI:811	Sonography Clinical Education III	9.00
		17.00

TERM 5
ADI:330	Sonography Interpretation & Critique	2.00
ADI:349	Vascular Sonography	5.00
ADI:817	Sonography Clinical Education IV	9.00
		16.00

Diagnostic Medical Sonography - Fall Start
AAS Total **85.00**

DIAGNOSTIC MEDICAL SONOGRAPHY - SPRING START AAS DEGREE

PREREQUISITE COURSES — Credits
PHY:162	College Physics I	4.00
PHY:172	College Physics II [4.00 credit] **OR**	3.00 – 4.00
RAD:800	Physics for Radiographers [3.00 credits]	
		7.00 – 8.00

TERM 1
BIO:157	Human Biology **OR**	4.00
BIO:168	Human Anatomy and Physiology I **OR**	
BIO:173	Human Anatomy and Physiology II	
ENG:105	Composition I **OR**	3.00
SPC:112	Public Speaking	
HSC:113	Medical Terminology	2.00
PHI:105	Introduction to Ethics	3.00
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

TERM 2
ADI:111	Sonography Principles & Instrumentation I	2.00
ADI:262	Sectional Anatomy for Diagnostic Imaging	3.00
ADI:321	Abdominal Sonography I	5.00
ADI:800	Sonography Clinical Education I	9.00
		19.00

TERM 3
ADI:211	Sonography Principles & Instrumentation II	2.00
ADI:326	Abdominal Sonography II	4.00
ADI:811	Sonography Clinical Education III	9.00
		15.00

TERM 4 - SUMMER
ADI:357	Obstetrical & Gynecological Sonography	6.00
ADI:805	Sonography Clinical Education II	6.00
		12.00

TERM 5		Credits
ADI:330	Sonography Interpretation & Critique	2.00
ADI:349	Vascular Sonography	5.00
ADI:817	Sonography Clinical Education IV	9.00
		16.00

Diagnostic Medical Sonography - Spring Start
AAS Total **85.00**

DIAGNOSTIC CARDIAC SONOGRAPHY - FALL STARTAAS DEGREE

PREREQUISITE COURSES		Credits
PHY:162	College Physics I	4.00
PHY:172	College Physics II [4.00 credit] **OR**	3.00 – 4.00
RAD:800	Physics for Radiographers [3.00 credits]	
		7.00 – 8.00

TERM 1		
BIO:157	Human Biology **OR**	4.00
BIO:168	Human Anatomy and Physiology I **OR**	
BIO:173	Human Anatomy and Physiology II	
ENG:105	Composition I **OR**	3.00
SPC:112	Public Speaking	
HSC:113	Medical Terminology	2.00
PHI:105	Introduction to Ethics	3.00
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

TERM 2		
ADI:111	Sonography Principles & Instrumentation I	2.00
ADI:256	Cardiac Sonography I	4.00
ADI:262	Sectional Anatomy for Diagnostic Imaging	3.00
ADI:803	Cardiac Sonography Clinical Education I	9.00
		18.00

TERM 3		
ADI:266	Cardiac Sonography II	4.00
ADI:808	Cardiac Sonography Clinical Education II	6.00
		10.00

TERM 4		
ADI:211	Sonography Principles & Instrumentation II	2.00
ADI:276	Cardiac Sonography III	4.00
ADI:814	Cardiac Sonography Clinical Education III	9.00
		15.00

TERM 5		
ADI:277	Cardiac Imaging Interpretation and Critique	2.00
ADI:286	Cardiac Sonography IV	4.00
ADI:824	Cardiac Sonography Clinical Education IV	9.00
		15.00

Diagnostic Cardiac Sonography - Fall Start
AAS Total **81.00**

DIAGNOSTIC CARDIAC SONOGRAPHY - SPRING START AAS DEGREE

PREREQUISITE COURSES		Credits
PHY:162	College Physics I	4.00
PHY:172	College Physics II [4.00 credit] **OR**	3.00 – 4.00
RAD:800	Physics for Radiographers [3.00 credits]	
		7.00 – 8.00

TERM 1		
BIO:157	Human Biology **OR**	4.00
BIO:168	Human Anatomy and Physiology I **OR**	
BIO:173	Human Anatomy and Physiology II	
ENG:105	Composition I **OR**	3.00
SPC:112	Public Speaking	
HSC:113	Medical Terminology	2.00
PHI:105	Introduction to Ethics	3.00
PSY:111	Introduction to Psychology **OR**	3.00
SOC:110	Introduction to Sociology	
		15.00

TERM 2		
ADI:111	Sonography Principles & Instrumentation I	2.00
ADI:256	Cardiac Sonography I	4.00
ADI:262	Sectional Anatomy for Diagnostic Imaging	3.00
ADI:803	Cardiac Sonography Clinical Education I	9.00
		18.00

TERM 3		
ADI:211	Sonography Principles & Instrumentation II	2.00
ADI:266	Cardiac Sonography II	4.00
ADI:814	Cardiac Sonography Clinical Education III	9.00
		15.00

TERM 4		
ADI:276	Cardiac Sonography III	4.00
ADI:808	Cardiac Sonography Clinical Education II	6.00
		10.00

TERM 5		
ADI:277	Cardiac Imaging Interpretation and Critique	2.00
ADI:286	Cardiac Sonography IV	4.00
ADI:824	Cardiac Sonography Clinical Education IV	9.00
		15.00

Diagnostic Cardiac Sonography - Spring Start
AAS Total **81.00**

SUPPLY CHAIN AND LOGISTICS

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Supply Chain and Logistics program is designed for individuals wishing to enter the job market with the skills to perform a variety of job functions in the logistics and supply chain field. Supply Chain professionals are responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery and final disposal of resources.

Supply Chain and Logistics graduates work in the logistics field incorporating such tasks as transportation, warehousing, inventory control, purchasing, scheduling, safety, management, electronic data interchange, order processing, traffic management, security, packaging and location site analysis.

SUPPLY CHAIN AND LOGISTICS AAS DEGREE

TERM 1

		Credits
CSC:110	Introduction to Computers	3.00
MAT:110	Math for Liberal Arts **OR**	3.00
MAT:156	Statistics	
MFG:106	Workplace Safety	3.00
MGT:260	Introduction to Business Logistics	3.00
MGT:263	Principles of Distribution and Warehouse Management	3.00
MGT:269	Introduction to Inventory Management	3.00
		18.00

TERM 2

BUS:300	Introduction to Radio Frequency Identification	3.00
BUS:302	Radio Frequency Identification (RFID) Software	3.00
ENG:107	Composition I: Technical Writing	3.00
MFG:505	Lean Manufacturing	1.00
MGT:130	Principles of Supervision	3.00
MGT:261	Principles of Transportation Management	3.00
		16.00

TERM 3

BUS:180	Business Ethics	3.00
BUS:293	Principles of Workforce Competitive Advantage	3.00
MGT:165	Principles of Quality	3.00
MGT:265	International Transportation and Logistics	3.00
MGT:268	Principles of Logistics Operations Management	3.00
		15.00

TERM 4

		Credits
BUS:161	Human Relations	3.00
BUS:185	Business Law I	3.00
MGT:910	Supply Chain Internship	3.00
MKT:110	Principles of Marketing	3.00
PSY:213	Industrial & Organizational Psychology	3.00
		15.00

Supply Chain and Logistics AAS Total.................................. 64.00

SUPPLY CHAIN AND LOGISTICS DIPLOMA

TERM 1

		Credits
CSC:110	Introduction to Computers	3.00
MAT:110	Math for Liberal Arts **OR**	3.00
MAT:156	Statistics	
MFG:106	Workplace Safety	3.00
MGT:260	Introduction to Business Logistics	3.00
MGT:263	Principles of Distribution and Warehouse Management	3.00
MGT:269	Introduction to Inventory Management	3.00
		18.00

TERM 2

BUS:300	Introduction to Radio Frequency Identification	3.00
BUS:302	Radio Frequency Identification (RFID) Software	3.00
MFG:505	Lean Manufacturing	1.00
MGT:130	Principles of Supervision	3.00
MGT:261	Principles of Transportation Management	3.00
		13.00

TERM 3

MGT:165	Principles of Quality	3.00
MGT:265	International Transportation and Logistics	3.00
MGT:268	Principles of Logistics Operations Management	3.00
		9.00

Supply Chain and Logistics Diploma Total........................... 40.00
Gainful employment information for the Supply Chain and Logistics program is located at www.eicc.edu/gainfulemployment

LOGISTICS AND TRANSPORTATION CERTIFICATE

TERM 1

		Credits
CSC:110	Introduction to Computers	3.00
MFG:106	Workplace Safety	3.00
MGT:260	Introduction to Business Logistics	3.00
MGT:261	Principles of Transportation Management	3.00
MGT:263	Principles of Distribution and Warehouse Management	3.00
MGT:269	Introduction to Inventory Management	3.00
		18.00

TERM 2

MFG:505	Lean Manufacturing	1.00
MGT:265	International Transportation and Logistics	3.00
MGT:268	Principles of Logistics Operations Management	3.00
		7.00

Logistics and Transportation Certificate Total **25.00**
Gainful employment information for the Supply Chain and Logistics program is located at www.eicc.edu/gainfulemployment

INVENTORY CONTROL CERTIFICATE

TERM 1

		Credits
BUS:300	Introduction to Radio Frequency Identification	3.00
CSC:110	Introduction to Computers	3.00
MFG:106	Workplace Safety	3.00
MGT:260	Introduction to Business Logistics	3.00
MGT:263	Principles of Distribution and Warehouse Management	3.00
MGT:269	Introduction to Inventory Management	3.00
		18.00

TERM 2

BUS:302	Radio Frequency Identification (RFID) Software	3.00
MFG:505	Lean Manufacturing	1.00
MGT:165	Principles of Quality	3.00
		7.00

Inventory Control Certificate Total **25.00**
Gainful employment information for the Supply Chain and Logistics program is located at www.eicc.edu/gainfulemployment

SURGICAL TECHNOLOGY

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

The Surgical Technology program prepares students to be an integral part of the team of medical practitioners providing surgical care to patients. Surgical technologists work under the supervision of a surgeon to facilitate the safe and effective conduct of invasive surgical procedures, ensuring that the operating room is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety.

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Surgical Technology program can be found at www.eicc.edu/future-students/our-programs.

SURGICAL TECHNOLOGY - FALL START AAS DEGREE

PREREQUISITE COURSES

		Credits
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
BIO:186	Microbiology	4.00
CSC:110	Introduction to Computers	3.00
ENG:105	Composition I	3.00
HSC:113	Medical Terminology	2.00
MAT:110	Math for Liberal Arts **OR**	3.00
HIT:139	Math for Health Care Professionals	
PSY:111	Introduction to Psychology	3.00
		26.00

TERM 1

BUS:161	Human Relations	3.00
CSP:110	Infection Control and Health Regulations	2.00
FLS:141	Elementary Spanish I [4.00 credits] **OR**	3.00 – 4.00
HUM:110	Changes and Choices [3.00 credits] **OR**	
HUM:183	Living with Space, Time and Technology [3.00 credits]	
SUR:110	Introduction to Surgical Technology	5.00
SUR:421	Surgical Technology Pharmacology	1.00
		14.00 – 15.00

TERM 2

SPC:112	Public Speaking	3.00
SUR:225	Surgical Technology II	4.00
SUR:330	Surgical Technology Specialties	3.00
SUR:518	Clinical I	2.50
		12.50

TERM 3

		Credits
SUR:450	Advanced Concepts in Surgical Technology	4.00
SUR:524	Clinical II	6.50
		10.50

Surgical Technology - Fall Start AAS Total **64.00**

SURGICAL TECHNOLOGY - SPRING START AAS DEGREE

PREREQUISITE COURSES

		Credits
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
BIO:186	Microbiology	4.00
CSC:110	Introduction to Computers	3.00
ENG:105	Composition I	3.00
HSC:113	Medical Terminology	2.00
MAT:110	Math for Liberal Arts **OR**	3.00
HIT:139	Math for Health Care Professionals	
PSY:111	Introduction to Psychology	3.00
		26.00

TERM 1

BUS:161	Human Relations	3.00
CSP:110	Infection Control and Health Regulations	2.00
FLS:141	Elementary Spanish I [4.00 credits] **OR**	3.00 – 4.00
HUM:110	Changes and Choices [3.00 credits] **OR**	
HUM:183	Living with Space, Time and Technology [3.00 credits]	
SUR:110	Introduction to Surgical Technology	5.00
SUR:421	Surgical Technology Pharmacology	1.00
		14.00 – 15.00

TERM 2

SPC:112	Public Speaking	3.00
SUR:225	Surgical Technology II	4.00
SUR:330	Surgical Technology Specialties	3.00
		10.00

TERM 3

SUR:450	Advanced Concepts in Surgical Technology	4.00
SUR:528	Clinical	9.00
		13.00

Surgical Technology - Spring Start AAS Total **64.00**

TECHNICAL STUDIES

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

You have skills, knowledge and abilities gained from years on the job, participation in an apprenticeship, an on-the-job training program, or from general life and work experiences. Those skills and abilities can be validated through Clinton, Muscatine or Scott Community College Technical Skills degree.

Validation means that skills are evaluated, and, if they meet the criteria, credits are awarded and put toward completion of a degree. Credits are judged in a variety of ways, depending upon which method works best for your field of study. This could be a written test, a performance test or a evaluation of a portfolio of your work called Credit for Prior Learning.

The end result is an Associate of Applied Science degree in the career field in which you have the most experience and interest.

TECHNICAL STUDIES AAS DEGREE

The AAS degree in Technical Studies consists of a total of 64 credits. Some of these can come from Credit for Prior Learning and be combined with credits earned from the following components:

CORE CONCENTRATION
24 credit hours of this degree program must come from one program-specific area (for example, Auto Technology).

ELECTIVE COURSES
22 credit hours of this degree program can be selected from any of the current career program (AAS) courses offered at the colleges.

GENERAL EDUCATION
18 credit hours required from the following areas:

___:___	English or Communications	3.00
___:___	Math or Science	3.00
___:___	Microcomputer Applications	3.00
___:___	Arts and Humanities	3.00
___:___	Cultural/Historical Perspectives	3.00
___:___	Social Sciences	3.00
		18.00

TERM 1

		Credits
___:___	Technical Core Electives	9.00
___:___	Math Elective (above 100 level) **OR**	3.00
___:___	Biology Elective **OR**	
___:___	Chemistry Elective **OR**	
___:___	Environmental Science **OR**	
___:___	Physical Science Elective **OR**	
___:___	Physics Elective	
ENG: 105	Composition I **OR**	3.00
ENG:107	Composition I: Technical Writing **OR**	
SPC: 112	Public Speaking **OR**	
SPC:117	Professional Communication	
		15.00

TERM 2

___:___	Technical Core Electives	12.00
CSC:110	Introduction to Computers	3.00
___:___	Cultural/Historical Perspectives Elective	3.00
		18.00

TERM 3

___:___	Technical Core Electives	12.00
___:___	Arts and Humanities Elective	3.00
		15.00

TERM 4

___:___	Technical Core Electives	13.00
ECN:120	Principles of Macroeconomics **OR**	3.00
ECN:130	Principles of Microeconomics **OR**	
POL:111	American National Government **OR**	
PSY:111	Introduction to Psychology **OR**	
SOC:110	Introduction to Sociology	
		16.00

Technical Studies AAS Total.. **64.00**

TRUCK DRIVING

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE CERTIFICATE

The ten-week commercial driver development program prepares the student for a career in the transportation industry. The student will spend three weeks consisting of 60 hours in the classroom developing the knowledge to take and pass the CDL permit state test, gaining an in-depth understanding of the Federal Motor Carrier Safety Administration rules and regulations, becoming conversant with the hours of service regulations and how to fill out log books, mapping and trip planning, and reviewing CSA2010 and driving techniques, situations and safety. The seven-week vehicle operations portion of the course consists of a minimum of 10 hours per week of behind the wheel operation of a tractor trailer unit on city streets, rural roads, primary highways and interstate settings. This prepares the student to operate the vehicle safely in a variety of situations and to take and pass the pre-trip test, skills test, and road test administered by state to obtain a CDL license.

TRUCK DRIVING AND TRANSPORTATION TRAINING CERTIFICATE - DAY

TERM		Credits
TDT:111	Commercial Drivers License Regulations	3.00
TDT:130	Commercial Vehicle Operation	7.00
		10.00

Truck Driving and Transportation Training Certificate Day Total..**10.00**

Day sessions start every seven weeks beginning in February and ending in November.

TRUCK DRIVING AND TRANSPORTATION TRAINING CERTIFICATE - EVENING

TERM		Credits
TDT:112	Commercial Drivers License Regulations	2.50
TDT:131	Commercial Vehicle Operation	5.00
		7.50

Truck Driving and Transportation Training Certificate Night Total **7.50**

TURF AND LANDSCAPE

CAMPUS MUSCATINE COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Turf and Landscape AAS will provide students with the knowledge and skills to enter professional careers that include: golf and sports turf management, landscape design, landscape installation, grounds maintenance, lawn care, garden center management and other green industry related careers. Educational diversity within the curriculum creates career and technical advantages. During the third semester, additional value for students is created for hands on learning in a summer of paid on the job training. As a member of the National Professional Agricultral Student Organization (PAS) and National Association of Landscape Professionals (NALP) organization, the program offers students an opportunity to travel and compete nationally in competitive events and participate in networking and leadership opportunities.

TURF AND LANDSCAPE AAS DEGREE

TERM 1

		Credits
AGB:108	Human Relations I	1.50
AGB:191	Agricultural Sales I	1.50
AGH:112	Introduction to Turfgrass Management	3.00
AGH:152	Landscape Design Techniques	3.00
AGH:220	Plant Identification I	3.00
AGH:221	Principles of Horticulture	3.00
AGH:801	Turf and Landscape Seminar I	1.00
		16.00

Turf Management Certificate Total **16.00**
Gainful employment information for the Turf Management program is located at www.eicc.edu/gainfulemployment

TERM 2

AGH:142	Landscape Construction	3.00
AGH:143	Equipment Repair	3.00
AGH:200	Landscape Estimating and Bidding	2.00
AGH:252	Horticulture Pest Management	3.00
SPC:170	Professional Communication **OR**	3.00
ENG:105	Composition I **OR**	
SPC:112	Public Speaking	
		14.00

TERM 3

AGC:941	Employment Experience I	3.00
		3.00

Turf and Landscape Diploma Total **33.00**
Gainful employment information for the Turf and Landscape program is located at www.eicc.edu/gainfulemployment

TERM 4

AGA:182	Introduction to Soil Science	3.00
AGH:159	Landscape Graphics	2.00
AGH:211	Advanced Turfgrass Management	3.00
AGH:821	Turf and Landscape Seminar II	1.00
CSC:110	Introduction to Computers **OR**	3.00
AGC:103	Ag Computers	
MAT:104	Applied Math Topics [3.00 credits] **OR**	3.00 – 4.00
MAT:110	Math for Liberal Arts [3.00 credits] **OR**	
MAT:121	College Algebra [4.00credits]	
		15.00 – 16.00

TERM 5

AGA:390	Introduction to Renewable Resources **OR**	3.00
ENV:115	Environmental Science	
AGB:112	Human Relation II	1.75
AGB:192	Agricultural Sales II	1.75
AGH:161	Irrigation Systems	3.00
AGH:292	Garden Center Management	3.00
AGH:400	Athletic Field Maintenance	3.00
		15.50

Turf and Landscape AAS Total .... **63.50 - 64.50**

VETERINARY TECHNICIAN

The Veterinary Technician program prepares students to enter the job market as assistants to veterinarians. New technologies in anesthesia, laboratory equipment, diagnostic testing, and medical treatment have vastly improved animal care. To prepare for these responsibilities, the vet tech program at MCC is designed to enable its graduates to perform a variety of functions necessary for the care of animals.

The Veterinary Technician program is accredited by the American Veterinary Medical Association (AVMA) Committee on Veterinary Technician Education and Activities.

In addition to the general admission requirements of the college, applicants to this program must meet specific program admission criteria. The application process and admission requirements for the Veterinary Techician program can be found at www.eicc.edu/future-students/our-programs.

VETERINARY TECHNICIAN AAS DEGREE

PREREQUISISTE TERM

		Credits
BIO:114	General Biology IA	4.00
CHM:122	Introduction to General Chemistry	4.00
		8.00

TERM 1

		Credits
AGV:118	Animal Anatomy and Physiology I	4.00
AGV:119	Veterinary Medical Terminology	2.00
AGV:130	Clinical Technology I	3.00
AGV:186	Canine and Feline Behavior	2.00
ENG:105	Composition I	3.00
		14.00

TERM 2

AGV:127	Animal Anatomy and Physiology II	4.00
AGV:131	Clinical Technology II	3.00
AGV:133	Veterinary Clinic Pathology I	3.00
AGV:146	Large Animal Care	3.00
MAT:104	Applied Math Topics	3.00
		16.00

TERM 3 - SUMMER

AGV:113	Canine and Feline Nutrition	2.00
AGV:149	Large Animal Diseases	1.00
AGV:184	Lab Animal Medicine	2.00
___:___	Humanities Elective*	3.00
SPC:170	Professional Communication	3.00
		11.00

TERM 4

		Credits
AGV:134	Veterinary Clinic Pathology II	3.00
AGV:140	Veterinary Pharmacology	3.00
AGV:182	Diagnostic Imaging	3.00
AGV:232	Clinical Technology III	4.00
AGV:248	Surgery and Anesthesia for Veterinary Technicians	2.00
		15.00

TERM 5

AGV:159	Surgical Nursing	3.00
AGV:170	Veterinary Anesthesiology	3.00
AGV:933	Internship	6.00
		12.00

Veterinary Technician AAS Total..**76.00**

Students who successfully complete this AAS program are eligible to sit for the Iowa Veterinary Technician Examination and the National Veterinary Technician Exam (NVTE).

*HUMANITIES ELECTIVE

(Select one course from the following)

		Credits
HUM:183	Living with Space, Time and Technology	3.00
PHI:110	Introduction to Logic	3.00
PHI:105	Introduction to Ethics	3.00
PHI:101	Introduction to Philosophy	3.00
HUM:110	Changes and Choices	3.00
REL:101	Survey of World Religions	3.00
DRA:110	Introduction to Film	3.00

WELDING

CAMPUS SCOTT COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE, DIPLOMA, AND CERTIFICATE

The Welding program provides options in certificate, diploma, or degree programs in a range of industrial welding techniques: ARC, MIG, TIG, core wire, gas. Certificate programs are offered in basic welding, general maintanence welding, production welding, and structural welding. The welding lab is equipped to provide each student with hands-on learning opportunities, with instructors present and available for guidance. Courses are offered in an eight-week format with flexible schedule of attendance during the day or evening.

WELDING AAS DEGREE

TERM 1

		Credits
MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:123	Welding Symbols	1.00
WEL:274	Shielded Metal Arc Welding I: SENSE1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE1	3.00
		14.00

TERM 2

CSC:112	Computer Fundamentals for Technicians I/A	2.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
WEL:215	Shielded Metal Arc Welding Adv I	5.00
WEL:256	Gas Metal Arc Welding Basic	4.50
		13.50

TERM 3 - SUMMER

ENG:107	Composition I: Technical Writing	3.00
WEL:192	Gas Tungsten Arc Welding	4.00
WEL:257	Flux Core Arc Welding	2.50
___:___	Humanities /Social Science Elective*	3.00
___:___	Technical Elective**	3.00
		15.50

TERM 4

WEL:258	Shielded Metal Arc Welding Advanced II	5.00
WEL:416	Advanced Gas Metal Arc Welding (GMAW)	2.00
___:___	Technical Elective**	5.00
___:___	Humanities/Social Science Elective*	3.00
		15.00

TERM 5

WEL:259	Oxy-Acetylene Arc Welding	1.00
___:___	Technical Elective**	3.00
		4.00

Welding AAS Total **62.00**

*HUMANITIES/SOCIAL SCIENCE ELECTIVES

(Select two courses from the following)

		Credits
ANT:105	Cultural Anthropology	3.00
CLS:150	Latin American History and Culture	3.00
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
FLS:141	Elementary Spanish I	4.00
GEO:121	World Regional Geography	3.00
GLS:100	Contemporary World Issues	3.00
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History Since 1877	3.00
HIS:211	Modern Asian History	3.00
HIS:231	Contemporary World Affairs	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

**TECHNICAL ELECTIVES

(Select a minimum of 11 credit hours total)

		Credits
CAD:286	SolidWorks – Modeling	3.00
CAD:287	SolidWorks – Applications	3.00
DRF:131	Basic Drafting and Design I	3.00
DRF:132	Basic Drafting and Design II	3.00
ELE:216	DC Circuit Analysis	3.00
ELE:217	AC Circuit Analysis	3.00
MFG:105	Machine Shop Measuring	3.00
MFG:111	Machinery's Handbook	1.00
MFG:112	Drills and Saws	2.00
MFG:116	Carbide Tooling	1.00
MFG:190	Metallurgy	2.00

WELDING DIPLOMA

TERM 1

		Credits
MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:123	Welding Symbols	1.00
WEL:274	Shielded Metal Arc Welding I: SENSE1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE1	3.00
		14.00

TERM 2

ENG:107	Composition I: Technical Writing	3.00
WEL:192	Gas Tungsten Arc Welding	4.00
WEL:256	Gas Metal Arc Welding Basic	4.50
___:___	Humanities/Social Science Elective*	3.00
		14.50

TERM 3

		Credits
WEL:257	Flux Core Arc Welding	2.50
WEL:259	Oxy–Acetylene Arc Welding	1.00
		3.50

Welding Diploma Total **32.00**
Gainful employment information for the Welding program is located at www.eicc.edu/gainfulemployment

*HUMANITIES/SOCIAL SCIENCE ELECTIVES

ANT:105	Cultural Anthropology	3.00
CLS:150	Latin American History and Culture	3.00
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
FLS:141	Elementary Spanish I	4.00
GEO:121	World Regional Geography	3.00
GLS:100	Contemporary World Issues	3.00
HIS:117	Western Civilization I: Ancient and Medieval	3.00
HIS:118	Western Civilization II: Early Modern	3.00
HIS:119	Western Civilization III: The Modern Period	3.00
HIS:151	U.S. History to 1877	3.00
HIS:152	U.S. History Since 1877	3.00
HIS:211	Modern Asian History	3.00
HIS:231	Contemporary World Affairs	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
HUM:183	Living with Space, Time and Technology	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

BASIC WELDING CERTIFICATE

TERM 1

		Credits
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:257	Flux Core Arc Welding	2.50
WEL:274	Shielded Metal Arc Welding I: SENSE1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE1	3.00
		12.50

TERM 2

WEL:192	Gas Tungsten Arc Welding	4.00
WEL:256	Gas Metal Arc Welding Basic	4.50
WEL:259	Oxy–Acetylene Arc Welding	1.00
		9.50

Basic Welding Certificate Total **22.00**
Gainful employment information for the Basic Welding program is located at www.eicc.edu/gainfulemployment

GENERAL MAINTENANCE WELDING CERTIFICATE

TERM 1

		Credits
CSC:112	Computer Fundamentals for Technicians I/A	2.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
ELE:101	Industrial Safety	1.00
MAT:733	Math for Technologies A	1.50
MAT:734	Math for Technologies B	1.50
MFG:192	Blueprint Reading	3.00
WEL:126	Shielded Metal Arc Weld–Basic [4.75 credits] **OR**	4.75 – 6.00
WEL:274	Shielded Metal Arc Welding I: SENSE1 [3.00 credits] **AND**	
WEL:275	Shielded Metal Arc Welding II: SENSE1 [3.00 credits]	
WEL:129	Gas Metal Arc Welding–Basic [4.25 credits] **OR**	4.25 – 4.50
WEL:256	Gas Metal Arc Welding Basic [4.50 Credits]	
		20.00 – 21.50

TERM 2

EGT:133	Hydraulics/Pneumatics I	2.00
ELE:115	Basic Electricity I	2.00
WEL:136	Oxy–Acetylene Welding and Cutting	4.25
		8.25

Term 2 Optional Course

WEL:259	Oxy–Acetylene Arc Welding	1.00

General Maintenance Welding Certificate Total .... **28.25 - 29.75**
Gainful employment information for the General maintenance Welding program is located at www.eicc.edu/gainfulemployment

PRODUCTION WELDING CERTIFICATE

TERM 1		Credits
MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:123	Welding Symbols	1.00
WEL:256	Gas Metal Arc Welding	4.50
WEL:416	Advanced Gas Metal Arc Welding (GMAW)	2.00
		14.50

TERM 2		
WEL:257	Flux Core Arc Welding	2.50
WEL:259	Oxy–Acetylene Arc Welding	1.00
		3.50

Production Welding Certificate Total **18.00**
Gainful employment information for the Production Welding program is located at www.eicc.edu/gainfulemployment

STRUCTURAL WELDING CERTIFICATE

TERM 1		Credits
MAT:733	Math for Technologies A	1.50
MAT: 734	Math for Technologies B	1.50
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
WEL:259	Oxy–Acetylene Arc Welding	1.00
WEL:274	Shielded Metal Arc Welding I: SENSE1	3.00
WEL:275	Shielded Metal Arc Welding II: SENSE1	3.00
		14.00

TERM 2		
WEL:215	Shielded Metal Arc Welding Adv I	5.00
WEL:257	Flux Core Arc Welding	2.50
WEL:258	Shielded Metal Arc Welding Advanced II	5.00
		12.50

Structural Welding Certificate Total **26.50**
Gainful employment information for the Structural Welding program is located at www.eicc.edu/gainfulemployment

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EASTERN IOWA
COMMUNITY COLLEGES
CLINTON • MUSCATINE • SCOTT

THE *Community's College*

**SHARED
PROGRAMS**

Challenge.
Success.
Community.

DENTAL HYGIENE

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGE/CARL SANDBURG COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

NOTE: DEGREE AWARDED BY CARL SANDBURG COLLEGE

Through a unique partnership with Carl Sandburg College, located in Galesburg, Illinois, students can complete some of their courses at Clinton, Muscatine or Scott Community College and transfer them to Carl Sandburg College. Students attend Dental Hygiene (DHG) courses in Galesburg and pay the Carl Sandburg College's in-district tuition rate for these courses.

Additional information about the Carl Sandburg College Dental Hygiene program, including admissions requirements and the application process, can be found at www.sandburg.edu/Academics/Degree-Certificates/Dental%20Hygiene/index.html.

The following courses taken at Clinton, Muscatine or Scott Community College will fulfill course requirements for admission to the Dental Hygiene Program.
Note that Carl Sandburg College requires a grade of C or higher in these courses.

BIO:114	General Biology I/A*	4.00
CHM:122	Introduction to General Chemistry	4.00

* BIO:168 with a minimum grade of C or BIO:186 with a minimum grade of C.

The following additional courses can also be completed at Clinton, Muscatine or Scott Community College and will fulfill course requirements of the Dental Hygiene Program.
Note that Carl Sandburg College requires a grade of C or higher in these courses.

BIO:151	Nutrition	3.00
BIO:168	Human Anatomy and Physiology I	4.00
BIO:173	Human Anatomy and Physiology II	4.00
BIO:186	Microbiology	4.00
ENG:105	English Composition I	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00
SPC:112	Public Speaking	3.00
		27.00

AAS DEGREE

PRIOR TO ADMISSION

		Credits
BIO:114	General Biology IA	4.00
CHM:122	Introduction to General Chemistry	4.00
HSC:113	Medical Terminology	2.00
		10.00

TERM 1		Credits
BIO:168	Human Anatomy and Physiology I	4.00
DHY:109	Preclinic Lab	1.50
DHY:112	Head, Neck, & Oral Anatomy	3.00
DHY:115	Dental Hygiene Practice I	2.00
DHY:161	Oral Radiology	3.00
DHY:170	Principles of Dental Hygiene	2.00
DHY:228	Clinical Preventive Dentistry	2.00
		17.50

TERM 2		
BIO:173	Human Anatomy and Physiology II	4.00
DHY:118	Oral Histology & Embryology	1.00
DHY:125	Dental Hygiene Practice II	4.00
DHY:211	Periodontology	2.00
DHY:281	Dental Hygiene II	2.00
ENG:105	Composition I	3.00
SOC:110	Introduction to Sociology	3.00
		19.00

TERM 3		
DHY:291	Dental Hygiene III	2.00
		2.00

TERM 4		
BIO:186	Microbiology	4.00
DHY:205	Dental Hygiene Practice III	3.00
		7.00

TERM 5		
BIO:151	Nutrition	3.00
DHY:131	Pharmacology	2.00
DHY:140	General and Oral Pathology	2.00
DHY:215	Dental Hygiene Practice IV	5.00
DHY:257	Community Dental Health	2.00
DHY:301	Dental Hygiene IV	2.00
		16.00

TERM 6		
DHY:212	Periodontology II	2.00
DHY:218	Dental Office Management & Jurisprudence	2.00
DHY:225	Dental Hygiene Practice V	5.00
DHY:270	Local Anesthesia for Dental Hygienists	1.00
DHY:311	Dental Hygiene V	2.00
PSY:111	Introduction to Psychology	3.00
SPC:112	Public Speaking	3.00
		18.00

AAS Total **89.50**

Graduates of the Dental Hygiene program are eligible to take the National Dental Hygiene Board Examination, the respective clinical dental hygiene board examination and the examination for registration as a dental hygienist in the respective state.

MORTUARY SCIENCE

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGE/CARL SANDBURG COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

NOTE: DEGREE AWARDED BY CARL SANDBURG COLLEGE

Through a unique partnership with Carl Sandburg College, located in Galesburg, Illinois, students can complete some of their courses at Clinton, Muscatine or Scott Community College and transfer them to Carl Sandburg College. Students attend Mortuary Science courses in Galesburg and pay the Carl Sandburg College's in-district tuition rate for these courses.

AAS DEGREE

TERM 1 - SUMMER
		Credits
ENG:101	Freshman Composition 1	3.00
		3.00

TERM 2 - FALL
BIO:111	Anatomy and Physiology Fundamentals	4.00
CHM:100	Concepts of Chemistry	3.00
MTS:110	History of Mortuary Science	3.00
MTS:120	Mortuary Law	3.00
MTS:150	Psychology of Grief and Death	3.00
		16.00

TERM 3 - SPRING
ACC:101	Principles of Financial Accounting	3.00
BLA:202	Business Law	3.00
BUS:201	Management Fundamentals	3.00
MTS:130	Introduction to Microbiology – Mort Sci	2.00
MTS:131	Introduction to Pathology–Mortuary Sci	2.00
MTS:210	Funeral Service Counseling	4.00
		17.00

TERM 4 - FALL
MTS:140	Embalming 1	4.00
MTS:160	Funeral Service Administration	5.00
MTS:170	Restorative Art	4.00
MTS:215	Introduction–Mass Fatalities Incidents	2.00
MTS:225	Thanatochemistry	3.00
		18.00

TERM 5 - SPRING
		Credtis
Session I		
MTS:220	Funeral Directing	4.00
MTS:230	Embalming 2	4.00
MTS:240	Funeral Service Seminar	1.00
Session II		
MTS:250	Funeral Service Practicum	3.00
MTS:260	Restorative Arts/Embalming Practicum	3.00
MTS:270	Exam Review Seminar	1.00
		16.00

AAS Total **70.00**

NOTE: Students enrolled in the Mortuary Science program must complete all MTS courses with a grade of C or better in order to be eligible to register for subsequent courses. In order to graduate, students must complete all required courses with a grade of C or better.

Additional information about the Carl Sandburg College Mortuary Science program, including admissions requirements and the application process, can be found at www.sandburg.edu/Academics/Degree-Certificates/Mortuary-Science/index.html

RESPIRATORY CARE

CAMPUS CLINTON, MUSCATINE, AND SCOTT COMMUNITY COLLEGES/NORTHEAST IOWA COMMUNITY COLLEGE

DEGREE ASSOCIATE OF APPLIED SCIENCE DEGREE

NOTE: DEGREE AWARDED BY NORTHEAST IOWA COMMUNITY COLLEGE

The Respiratory Care program prepares students to be respiratory care practitioners who play a crucial role within the health care team. Working closely with physicians and other health care professionals, they care for patients with respiratory and cardiovascular conditions. Under the supervision of a physician, they are involved with the assessment, treatment, diagnostic testing, rehabilitation, and prevention of conditions that affect the respiratory and cardiovascular systems. Employment opportunities are found in hospitals, clinics, home health care agencies, product support and sales, education, rehabilitation and continuing care, and health/disease prevention programs.

PARTNERSHIP BETWEEN EICC AND NICC

A Respiratory Therapy program is available to our students through a cooperative partnership between Eastern Iowa Community Colleges (Clinton, Muscatine, and Scott Community Colleges) and Northeast Iowa Community College (NICC). The program is accredited by the Committee on Accreditation for Respiratory Care (CoARC).

The application process, admission, costs, and clinical requirements for the Respiratory Care program can be found at www.nicc.edu/respiratorycare.

TRANSFERRING TO NICC

Students need to complete an NICC application indicating a major in Respiratory Therapy. Students must also complete a transcript request form at the Registrar's Office of CCC, MCC or SCC so that the Registrar submits their course transcript to NICC.

AAS DEGREE

TERM 1

		Credits
BIO:168	Human Anatomy and Physiology I*	4.00
RCP:270	Respiratory Therapy Techniques I**	8.00
RCP:320	Respiratory Therapy Science I	3.50
		15.50

TERM 2

		Credits
PSY:111	Introduction to Psychology*	3.00
RCP:460	Respiratory Science II	3.50
RCP:540	Respiratory Therapy Techniques II	8.00
MAT:___	Math Elective Above 100	3.00
		17.50

TERM 3

BIO:173	Human Anatomy and Physiology II*	4.00
CSC:110	Introduction to Computers*	3.00
RCP:350	Pulmonary Pathology ***	3.00
RCP:490	Respiratory Therapy Science III***	6.00
		16.00

TERM 4

BIO:186	Microbiology*	4.00
ENG:105	Composition I*	3.00
RCP:600	Neonatal/Pediatric Respiratory Therapy	3.00
RCP:820	Respiratory Therapy Techniques IV	7.50
		17.50

TERM 5

HSC:136	Advanced Life Support (ACLS/PALS)	1.50
RCP:830	Respiratory Therapy V	12.00
RCP:840	Innovations in Respiratory Care	5.50
		19.00

AAS Total **85.50**

* Courses that may be completed at Clinton, Muscatine and Scott Community College.

** Must have CPR Certification – Health Care Provider or Professional Rescuer Level.

*** Courses are offered online only. All other respiratory care courses are offered in the classroom setting at the NICC campus located in Peosta, Iowa.

AWARD

After completing the program, students earn an AAS degree and are eligible for credentialing exams offered by the National Board for Respiratory Care (NBRC).

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COURSE
DESCRIPTIONS

Challenge.
Teamwork.
Community.

COURSE DESCRIPTIONS

ACC:111 Introduction to Accounting   3.0 cr.
This course serves as an introduction to the accounting cycle, and the structured systems and records used by small businesses and professional offices. The student will learn fundamental accounting concepts and principles that can be used directly in the workplace or as the foundation for further accounting coursework. (59.4 Lec. Hrs.)

ACC:121 Principles of Accounting I   3.0 cr.
An introduction to accounting terminology and concepts, and accepted accounting practices of analyzing, recording, summarizing, presenting, and interpreting business financial transactions of sole proprietorships and partnerships. Significant emphasis is placed upon practice and application. (59.4 Lec. Hrs.)

ACC:142 Financial Accounting   3.0 cr.
An introduction to the use of accounting in the decision making process. Information will be presented with a bias toward user orientation as opposed to preparer orientation. Course competencies will be developed in the areas of: Identifying the role of accounting in society, basic accounting and business terminology, concepts behind financial information, accepted accounting practices, analysis and interpretation of financial statements of sole proprietorships and corporations. (59.4 Lec. Hrs.)
Prerequisite: RDG:032 or RDG:033, MAT:041; or minimum reading and math placement scores based on college assessment.

ACC:146 Managerial Accounting   3.0 cr.
This course emphasizes financial statement analysis, including the reporting of cash flows, and managerial accounting as it relates to decision-making and to the manufacturing environment. This course serves as a foundation for other accounting courses for students planning careers in accounting, as well as providing for the needs for students in business administration.(59.4 Lec. Hrs.)
Prerequisite: ACC:142. Students pursuing an AAS may take ACC:121 instead.

ACC:161 Payroll Accounting   3.0 cr.
This course covers the processes of payroll accounting. Topics include methods of computing compensation, state and federal laws affecting payroll, mandatory and voluntary payroll deductions, methods of keeping payroll records, and preparation of internal and governmental reports. (59.4 Lec. Hrs.)
Prerequisite: ACC:111, ACC:121, ACC:142, or permission of instructor.

ACC:221 Cost Accounting   3.0 cr.
This course introduces basic cost accounting concepts and product cost accumulation procedures emphasizing differences between job order, process, and standard costing. Emphasis is placed in managerial accounting activities of controlling costs, cost analysis, and decision making activities. (59.4 Lec. Hrs.)
Prerequisite: ACC:146 with a minimum grade of C.

ACC:237 Intermediate Accounting   4.0 cr.
The in-depth study of selected financial accounting theory and practices. Topics may include professional organizations, structures, financial statements, the time-value of money, inventories, and other current and noncurrent assets and liabilities. As time permits some other specialty topics will be looked at; such as the statement of cash flows, accounting for leases, and revenue recognition principles. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)

ACC:265 Income Tax Accounting   4.0 cr.
This course is an introduction to federal income taxes applicable to individuals and businesses, including research of tax laws and regulations and the preparation of paper and electronic tax returns. (79.2 Lec. Hrs.)
Prerequisite: ACC:111, or ACC:121, or ACC:142 with a minimum grade of C, or better or permission of the Instructor

ACC:311 Computer Accounting   3.0 cr.
This course transfers manual accounting skills to a computerized accounting system. Students will create an accounting system will be created for a new company, and learn to record various business transactions in that system. The closing of the accounting cycle and generation of financial reports as well as the processing of payroll will also be studied. (59.4 Lec. Hrs.)
Prerequisite: ACC:111, ACC:121

**ACC:332 Computer Accounting –
QuickBooks   2.0 cr.**
In this course students will apply accounting concepts to keep financial records for small service and merchandising companies using the accounting software QuickBooks. Topics will include setting up a company, creating a chart of accounts, recording customer and vendor transactions, processing payroll, printing financial reports, recording adjusting entries and closing the accounting cycle. (29.7 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: ACC:111, ACC:121, or ACC:142

**ADI:111 Sonography Principles &
Instrumentation I   2.0 cr.**
This course familiarizes students with the basic physical principles governing medical ultrasound equipment and its use. This course initially examines the history and development of Diagnostic Medical Sonography as a modality. Emphasis is placed on the properties of acoustic waves and their behavior as they propagate and encounter human tissue. The instruments used to generate and receive sound waves for medical imaging purposes are studied with respect to their design and operating characteristics. (39.6 Lec. Hrs.)

**ADI:211 Sonography Principles &
Instrumentation II   2.0 cr.**
This course examines the hemodynamics of blood flow in the human body and the physical principles of Doppler ultrasound techniques. Continuous wave, pulsed wave, color flow, power Doppler, as well as emerging technologies will be explored. Students will evaluate both gray scale and color images as well as spectral tracings as they study data acquisition methods and learn to identify normal versus abnormal display patterns Associated with the vascular system. Quality assurance standards and methods of equipment testing are emphasized as image and display characteristics are evaluated. The relationship between intensity levels and exposure time are also addressed as they relate to the potential for bioeffects in human tissue. (39.6 Lec. Hrs.)
Prerequisite: ADI:111

ADI:256 Cardiac Sonography I   4.0 cr.
This course provides an introduction to the field of Cardiac Sonography and the role of the echocardiographer in a healthcare setting. The student will be introduced to relevant terminology as well as sonographer safety issues. The study of embryology, anatomy, and function of the heart and peripheral vascular system will play a vital role in understanding the cardiovascular system and how it relates to cardiac function. Patient assessment, correlation of pertinent laboratory and other medical procedures will be discussed. Students will learn basic imaging techniques and develop a standard protocol for examination of the adult heart. Normal sonographic appearances and anatomy recognition will be emphasized. (79.2 Lec. Hrs.)

**ADI:262 Sectional Anatomy for
Diagnostic Imaging   3.0 cr.**
This course covers the fundamentals of sectional anatomy for the commonly imaged planes of the human body. Units of study include: Cranium and Facial Bones, Brain, Neck, Spine, Thorax, Abdomen, Pelvis, Upper Extremity, and Lower Extremity. Line drawings, Computed Tomography (CT) images, Magnetic Resonance (MR) images, and ultrasound pictures are used to illustrate body parts in the coronal, sagittal, and/or axial planes. (59.4 Lec. Hrs.)
Prerequisite: BIO:114 with a minimum grade of C or better

ADI:266 Cardiac Sonography II   4.0 cr.
This course introduces the student to cardiovascular disease processes and pathophysiology. Risk factors, signs and symptoms, as well as medical, surgical, and interventional treatment options will be discussed. The appearance of pathology will be correlated with changes seen on sonographic images of the cardiovascular system. Spectral and color Doppler techniques used in evaluation of the heart with respect to pathology and diagnosis will be presented. (79.2 Lec. Hrs.)
Prerequisite: ADI:256

COURSE DESCRIPTIONS

ADI:276 Cardiac Sonography III   **4.0 cr.**
This course continues the study of cardiovascular disease processes in the adult patient. Advanced imaging techniques and new advances in the field will be explored. Students will also be introduced to professional governing agencies and explore opportunities for professional growth and development. (79.2 Lec. Hrs.)

ADI:277 Cardiac Imaging Interpretation and Critique   **2.0 cr.**
This course provides students the opportunity to further study concepts essential to quality patient care and sonographic exam performance. A wide variety of cardiac case studies will be presented and critiqued with emphasis on identification of normal anatomy, recognition of pathologic processes, and technical exam quality. Pathology-specific clinical history and physical assessment, imaging protocols and formulation of a preliminary exam interpretation will be discussed. (39.6 Lec. Hrs.)

ADI:286 Cardiac Sonography IV   **4.0 cr.**
This course emphasizes the clinical applications of cardiac sonography pertaining to basic fetal and pediatric examinations and the diagnosis of congenital heart disease. Students will investigate various correlative modalities used to examine the heart including magnetic resonance imaging, nuclear medicine, computed tomography and cardiac catheterization. Review sessions in preparation for certification examinations will be provided. (79.2 Lec. Hrs.)

ADI:321 Abdominal Sonography I   **5.0 cr.**
This course introduces students to basic sonographic terminology, imaging planes and techniques as well as sonographer safety issues. Normal anatomy and physiology of the upper abdominal organs, anatomical variations and pathologies will be studied with respect to their sonographic appearances. Emphasis is also placed on the acquisition of pertinent clinical history and physical findings and the evaluation of laboratory and related imaging reports. (99.0 Lec. Hrs.)

ADI:326 Abdominal Sonography II   **4.0 cr.**
This course covers anatomy and physiology and common pathologies of select abdominal organs as well as various superficial structures. Scanning protocols and normal versus abnormal sonographic findings Associated with each procedure are studied.(79.2 Lec. Hrs.)
Prerequisite: ADI:321 with a minimun garde of C or better

ADI:330 Sonography Interpretation and Critique   **2.0 cr.**
This course provides students the opportunity to further study concepts essential to quality patient care and sonographic exam performance. A wide variety of case studies will be presented and critiqued with emphasis on identification of normal anatomy, recognition of pathologic processes, and technical exam quality. Pathology-specific clinical history and physical assessment, imaging protocols and formulation of a preliminary exam interpretation will be discussed. (39.6 Lec. Hrs.)

ADI:349 Vascular Technology   **5.0 cr.**
This course will introduce students to basic vascular anatomy, hemodynamics and the use of sonography in evaluation of the vascular system. Clinical applications with regards to pathophysiology, patient signs and symptoms and findings related to common types of vascular disease will be presented. Emphasis will also be placed on the concepts essential to the performance and interpretation of vascular exams. (99.0 Lec. Hrs.)

ADI:357 Obstetrical & Gynecological Sonography   **6.0 cr.**
This course will introduce students to the sonographic evaluation of the non-gravid and gravid uterus. In gynecologic sonography students will assemble a comprehensive knowledge of anatomy, physiology, pathophysiology, and the sonographic appearance of the embryologic, pre-menarchal, menarchal, and post-menopausal female reproductive system. Obstetrical imaging focuses on fetal development and sonographic appearances of fetal and extrafetal anatomy throughout the gestational period. This course emphasizes an understanding of the fertilization process, clinical indications for obstetrical sonography and the sonographic appearances of the normal and abnormal gravid uterus specific to each trimester of pregnancy. (118.8 Lec. Hrs.)

ADI:800 Sonography Clinical Education I   **9.0 cr.**
This course provides the student with 3-4 days per week of clinical experience in affiliate hospitals, clinics, and/or imaging centers. Students will observe and gain introductory hands-on scanning experience on a variety of sonographic procedures under direct supervision of a staff sonographer. Students will observe laboratory demonstrations and perform standard exam protocols. Emphasis in the lab will focus on ergonomic safety, gaining proficiency in basic abdominal imaging techniques as well as identification of normal anatomy and pattern recognition. (133.65 Lec. Hrs. / 39.6 Lab Hrs. / 74.25 Clinical Hrs.)

ADI:803 Cardiac Sonography Clinical Education I   **9.0 cr.**
This course provides the echocardiography student with 3-4 days per week of clinical experience in affiliate hospitals, clinics, and/or imaging centers. Students will observe and gain introductory hands-on scanning experience on a variety of cardiac sonographic procedures under direct supervision of a staff sonographer. Students will observe laboratory demonstrations and perform standard exam protocols. Emphasis in the lab will focus on ergonomic safety, gaining proficiency in basic cardiac imaging techniques as well as identification of normal anatomy and pattern recognition. (133.65 Lec. Hrs. / 39.6 Lab Hrs. / 74.25 Clinical Hrs.)

ADI:805 Sonography Clinical Education II   **6.0 cr.**
This course provides the student with 4 days per week of clinical experience in affiliate hospitals, clinics, and/or imaging centers. Students will continue to gain hands-on scanning experience on a variety of sonographic procedures under direct supervision of a staff sonographer. Emphasis will be placed on ergonomic safety, gaining proficiency in a variety of imaging techniques and protocols, as well as identification of normal and abnormal anatomy and pattern recognition. In addition students will be required to perform select basic imaging and technical competencies. (356.4 Clinical Hrs.)

ADI:808 Cardiac Sonography Clinical Education II   **6.0 cr.**
This course provides the student with 4 days per week of clinical experience in affiliate hospitals, clinics, and/or imaging centers. Students will continue to gain hands-on scanning experience on a variety of cardiac sonographic procedures under direct supervision of a staff sonographer. Emphasis will be placed on ergonomic safety, gaining proficiency in a variety of imaging techniques and protocols, as well as identification of normal and abnormal anatomy and pattern recognition. In addition students will be required to perform select basic imaging and technical competencies. (356.4 Clinical Hrs.)

ADI:811 Sonography Clinical Education III   **9.0 cr.**
This course involves 3-4 days per week of clinical experience in affiliate hospitals, clinics, and/or imaging centers. Clinical assignments are made based on the student's clinical education needs, experience, and competency level. Students will advance their skill in exam performance, image interpretation, and analyzing the technical quality of the exam. In addition the student will be required to perform select basic imaging and technical competencies. In the lab setting students will be exposed to advanced scanning techniques and procedures. Emphasis in the lab will focus on ergonomic safety and demonstrating scanning proficiency in various techniques. (133.65 Lec. Hrs. / 39.6 Lab Hrs. / 74.25 Clinical Hrs.)

COURSE DESCRIPTIONS

ADI:814 Cardiac Sonography Clinical Education III 9.0 cr.
This course involves 3–4 days per week of clinical experience in affiliate hospitals, clinics, and/or imaging centers. Clinical assignments are made based on the student's clinical education needs, experience, and competency level. Students will advance their skill in exam performance, image interpretation, and analyzing the technical quality of the exam. In addition the student will be required to perform select basic imaging and technical competencies. In the lab setting students will be exposed to advanced scanning techniques and procedures. Emphasis in the lab will focus on ergonomic safety and demonstrating scanning proficiency in various techniques. (133.65 Lec. Hrs. / 39.6 Lab Hrs. / 74.25 Clinical Hrs.)

ADI:817 Sonography Clinical Education IV 9.0 cr.
This course provides 3–4 days per week of scanning experience in affiliate hospitals, clinics, imaging centers, and specialty clinics. Rotations are assigned to provide students with the opportunity to refine their skills in performing exams and scrutinizing the technical quality of the procedure. Advanced scanning techniques and procedures with integration of patient history and physical findings to determine the course of the examination will be emphasized. (133.65 Lec. Hrs. / 39.6 Lab Hrs. / 74.25 Clinical Hrs.)

ADI:824 Cardiac Sonography Clinical Education IV 9.0 cr.
This course provides 3–4 days per week of scanning experience in affiliate hospitals, clinics, imaging centers, and specialty clinics. Rotations are assigned to provide students with the opportunity to refine their skills in performing exams and scrutinizing the technical quality of the imaging procedure. Advanced scanning techniques and procedures with integration of patient history and physical findings to determine the course of the examination will be emphasized. Continued growth and demonstration of an increasing level of competence relating to critical thinking skills and problem solving will be developed. Students will demonstrate an increasing level of speed and efficiency in performance of exams. Successful completion of professional and technical competencies are required as outlined in the program handbook. This course will also include labs which will focus on advanced scanning techniques and exam performance. (133.65 Lec. Hrs. / 39.6 Lab Hrs. / 74.25 Clinical Hrs.)

ADM:105 Introduction to Keyboarding 1.0 cr.
This course is designed for the student with little or no prior keyboarding experience. The major objective is to develop touch control of the keyboard with speed and accuracy through proper keyboarding techniques. (39.6 Lab Hrs.)

ADM:122 Document Formatting 2.0 cr.
This course is designed for the student with minimal keyboarding experience. The major objectives are to develop touch control of the keyboard with speed and accuracy through proper keyboarding techniques and to learn proper formatting of letters, simple tables, short reports, and memorandums. (39.6 Lec. Hrs.)

ADM:149 Transcription 3.0 cr.
This course emphasizes the development of efficient machine transcription skills. Throughout this course, students will transcripe documents from taped dictation. The exercises gradually become more complex, giving the students many opportunities to make formatting, grammar, punctuation, usage, and style decisions.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ADM:105, ADM:122, and ADM:157

ADM:157 Business English 3.0 cr.
This course is designed to help the students sharpen their communication skills. The student will study and upgrade their skills in the four basic areas of grammar and usage, punctuation, spelling, and proofreading and editing.

ADM:179 Records Management 3.0 cr.
This course is designed for the student to learn and apply the indexing and filing rules that are applicable to the four major filing systems: alphabetic, geographic, numeric, and subject filing. Numerous records management supplies, equipment, computer database information, and careers in the records management field are also integrated into this course. (59.4 Lec. Hrs.)
Prerequisite: ENG:013, RDG:033; or minimum English and reading placement scores based on college assessment.

ADM:222 Career Capstone 3.0 cr.
This course is designed to be a capstone in the Administrative and Office Support program. This capstone emphasizes the integration of the student's knowledge and application of office skills. This course should be taken during the last semester before graduation. (59.4 Lec. Hrs.)
Prerequisite: ADM:122, BCA:120, and MGT:151

ADM:254 Business Professionalism 1.0 cr.
This course is designed to provide students the opportunity to develop professional growth in the areas of leadership, community service, cooperation, patriotism and business knowledge through membership and participation in a professional organization. This course may be repeated once. (19.8 Lec. Hrs.)

ADM:255 Business Professionalism II
1.0 cr.
This course is designed to provide students the opportunity to develop professional growth in the areas of leadership, community service, cooperation, patriotism, and business knowledge through membership and participation in a professional organization. This course may be repeated once. (19.8 Lec. Hrs.)
Prerequisite: ADM:254

ADM:936 Occupational Experience
3.0 – 5.0 cr.
This course is designed to provide students with the opportunity to receive practical office-related work experience through on-the-job training. While at work, students apply knowledge and skills learned in the classroom to complete the tasks and responsibilities of their positions. Students are guided by the coordinated efforts of the employer and the occupational experience coordinator. (237.6 – 396.0 Co-op Hrs.)
Prerequisite: Complete approximately half of the credit hours required for graduation in the degree program or consent of instructor. Minimum Grade Point Average of 2.0.

ADM:940 Leadership Seminar 2.0 cr.
This course is designed to develop self and professional growth in the area of leadership. Included during this course will be an emphasis on soft skills needed in today's workplace. (39.6 Lec. Hrs.)

ADN:109 Introduction to Health Concepts
10.0 cr.
This course introduces the concepts within the three domains of the individual, healthcare and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence based practice, individual centered care and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.
(118.8 Lec. Hrs. / 237.6 Clinical Hrs.)
Prerequisite: Must be accepted into the Associate Degree Nursing program.
Corequisite: ADN:220, BIO:168

ADN:220 Pharmacology 2.0 cr.
This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, pharmacokinetics, routes of administration, contraindications and side effects. Upon completion, students should be able to compute medication dosages and administer medications safely. (39.6 Lec. Hrs.)
Prerequisite: Must be accepted into the Associate Degree Nursing program.
Corequisite: ADN:109, BIO:168

COURSE DESCRIPTIONS

ADN:301 Holistic Health–Illness Concepts 9.0 cr.
This course is designed to further develop the concepts of acid–base, metabolism, cellular regulation, oxygenation, fluid and electrolytes, inflammation, infection, health–wellness–illness, caring interventions, teaching and learning, managing care, safety, health policy, quality improvement, informatics, elimination, intracranial regulation, perfusion, sensory perception, professional behaviors, thermoregulation, immunity, mobility, comfort, clinical decision making, and collaboration. Upon completion, students will be able to provide safe nursing care incorporating the concepts identified in this course. (99.0 Lec. Hrs. / 237.6 Clinical Hrs.)
Prerequisite: Complete ADN:109 and ADN:220 with a grade of C or better.
Corequisite: BIO:151, BIO:173

ADN:301 Holistic Family Health Concepts 10.0 cr.
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of thermoregulation, oxygenation, sexuality, reproduction, infection, grief/loss, mood/affect, behavior, development, family, health–wellness–illness, communication, caring interventions, managing care, metabolism, teaching and learning, and safety. Stress/coping, cognition, self, violence, professional behaviors, health policy, and informatics are also emphasized. Upon completion, students will provide safe nursing care incorporating the concepts identified in this course. (118.8 Lec. Hrs. / 237.6 Clinical Hrs.)
Prerequisite: Complete ADN:109 and ADN:220 with a grade of C or better.
Corequisite: BIO:151, BIO:173

ADN:451 Health System Concepts 3.0 cr.
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health–wellness illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability and evidence–based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (59.4 Lec. Hrs.)
Prerequisite: Complete ADN:109, ADN:220, BIO:151 and BIO:173 with a minimum grade of C or better.

ADN:452 Complex Health Concepts Mod A 5.0 cr.
This course is designed to assimilate the concepts within the domain of the individual. Emphasis is placed on the concepts of fluid and electrolytes, metabolism, perfusion, professional behaviors, caring interventions, and managing care, Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care. (59.4 Lec. Hrs. / 118.8 Clinical Hrs.)
Prerequisite: ADN:301, ADN:302, and ADN:451 with a minimum grade of C or better.

ADN:453 Complex Health Concepts Mod B 5.0 cr.
This course is designed to assimilate the concepts within the two domains of healthcare and nursing. Emphasis is placed on the concepts of mobility, stress/coping, violence, health–wellness–illness, professional behaviors, caring interventions, managing care, healthcare systems and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills and attitudes necessary to provide quality, individualized, entry–level nursing care. (59.4 Lec. Hrs. / 118.8 Clinical Hrs.)
Prerequisite: ADN:452 with a minimum grade of C or better.

ADN:905 Preceptorship 2.5 cr.
Preceptorship is an exit course for Associate degree nursing students, which builds upon concepts taught in previous nursing courses. The concepts of individual, healthcare and nursing are closely examined. Emphasis is placed on the use of the nursing process to meet the health needs of individual and groups across the life span. Upon completion, students should be able demonstrate specific strategies to meet the challenges of role transition from student to professional practitioner. (19.8 Lec. Hrs. / 89.1 Clinical Hrs.)
Prerequisite: ADN:453 with a minimum grade of C or better.

AGA:154 Fundamentals of Soil Science 3.0 cr.
Introduction to physical, chemical and biological properties of soils, their formation classification and distribution. (59.4 Lec. Hrs.)

AGA:182 Introduction to Soil Science 3.0 cr.
This course will help student understand soil function, texture, structure, formation, taxonomy, and other properties of soil. (59.4 Lec. Hrs.)

AGA:210 Corn and Soybean Production 3.0 cr.
This course covers the principles of corn and soybean production relative to managerial decisions needed to produce maximum economic yield. This course is designed to enable the student to learn and discuss the most current issues and research information dealing with the commercial and specialized production of corn and soybeans. Special focus will be placed on management's critical thinking abilities in relation to the above production factors and the economical and responsible use of all resources. (59.4 Lec. Hrs.)

AGA:285 Crop Protection 3.0 cr.
This course introduces students to the safe handling and use of agricultural chemicals; the biology of weed, insect, and disease pests in production agriculture; the control of weed, insect, and disease pests in production agriculture through integrated pest management practices; the maximum use of all economic resources as they relate to agricultural pest controls; the development of philosophies to protect the environment, and federal and state laws regarding the use of pesticides. Students will take the state pesticide applicator's exam upon completion of this course. Residents of states other than Iowa should be able to successfully complete those equivalent requirements in those states. (59.4 Lec. Hrs.)

AGA:336 Forage Production 1.5 cr.
Forage Production is a study of the cultivation and production of grass and legume forage. Topics include identification of forage species, variety selection, seeding, fertilization, control of weeds, insects and diseases, grazing, harvesting and storage. (29.7 Lec. Hrs.)

AGA:349 Fertilizers 1.5 cr.
The manufacture and kinds of lime and fertilizer materials, the economical and efficient use of lime and fertilizer materials, and the impact of lime and fertilizers materials on the environment with practical application to production. Agriculture and horticulture soil and fertilizer management will be discussed. (29.7 Lec. Hrs.)
Prerequisite: AGA:351, AGA:890

AGA:351 Soil Science 1.5 cr.
The nature of soils including soil formation, soil physical properties, biological properties, and soil stewardship with practical application to production agriculture and horticulture soil and fertilizer management will be addressed. (29.7 Lec. Hrs.)
Prerequisite: AGC:942

AGA:373 Integrated Crop Management 2.0 cr.
The integrated approach to management of weeds, insects, diseases, and disorders common to corn, soybeans, wheat, and alfalfa will be discussed and observed in the field environment. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

AGA:390 Introduction to Renewable Resources 3.0 cr.
This course will provide an overview of soil, water, plants, and animals as renewable natural resources in an ecosystem context. The history and organization of resource management and concepts of integrated resource management will be covered. (59.4 Lec. Hrs.)

AGA:881 Grain Science 1.75 cr.
Grain handling, grading, discounts, pricing, drying, storage, insect and mold control will be discussed. The student will be introduced to the equipment used in grain sampling and testing, and to practices used in grain handling on the farm and at elevator grain terminal businesses. (34.65 Lec. Hrs.)

COURSE DESCRIPTIONS

AGA:890 Soil Chemistry   **1.5 cr.**
Soil chemical properties, including clay mineralogy, cation exchange, pH, and availabilities of nitrogen, phosphorus, potassium, and micronutrients in the soil with practical application to production agriculture and horticulture soil and fertilizer management will be discussed. (29.7 Lec. Hrs.)
Prerequisite: AGA–351

AGA:901 Seed Science   **1.5 cr.**
The biology of monocotyledonous and dicotyledonous seeds and seedlings, germination and seedling establishment, germination testing, certification, seed laws, seed purity and quality, variety selection, inoculation and seed treatments will be discussed. (29.7 Lec. Hrs.)

AGB:103 Agricultural Economics   **1.5 cr.**
This course describes how the economic system in the United States affects the agricultural industry and how the agricultural industry affects the economic system. (29.7 Lec. Hrs.)

AGB:105 Business Principles for Agriculture I   **1.75 cr.**
This an introductory retail agribusiness course designed to enable students to learn and explore American agriculture, free enterprise systems, managerial functions, and business decision-making. (34.65 Lec. Hrs.)

AGB:106 Business Principles for Agriculture II   **1.75 cr.**
This course is a study of the comprehensive managerial and operational sides of the retail agribusiness sector of American agriculture. Course emphasis shall be placed on financial management, service analysis and getting the most out of the human and financial resources employed by a retail agribusiness firm. (34.65 Lec. Hrs.)
Prerequisite: AGB:105

AGB:108 Human Relations I   **1.5 cr.**
Designed to help the student prepare for employment, satisfactory work performance, coworker relations, employer–employee relations, work habits and attitudes, and the procedures for applying and interviewing for a job. (29.7 Lec. Hrs.)

AGB:112 Human Relations II   **1.75 cr.**
This course will help the student understand how the study of human relations will help them achieve career success and increased work/life balance. Students will learn the nature, purpose, and importance of human relations in an organizational setting. The student will be able to identify major developments in the workplace that have given new importance to human relations and identify some basic themes that serve as a foundation for effective human relations. (34.65 Lec. Hrs.)

AGB:143 Applied Agribusiness Accounting I   **1.25 cr.**
This course is an introduction to the accrual accounting system. Emphasis is given to the accounting cycle and basic accounting principles and practices used by companies in the input supply sector of the agriculture industry. (24.75 Lec. Hrs.)

AGB:144 Applied Agribusiness Accounting II   **1.0 cr.**
This is the second of a two-course series of double entry accrual accounting. Major emphasis of this course focuses on payroll accounting and the accounting practices of a merchandising business as found in retail agribusiness. Accounting for sales and purchases will be a primary focus. (19.8 Lec. Hrs.)
Prerequisite: AGB:143

AGB:180 Agribusiness Ethics   **1.5 cr.**
In this course, students will develop an awareness of the legal and ethical environment in which businesses must operate. They will understand the history and development of business ethics in the United States and recognize newly emerging trends in business ethics specific to the agriculture industry. Students will develop an understanding of ethics as a dimension of social responsibility and identify the laws regulating ethical behavior. Students will also identify and implement the steps necessary for ethical decision making, as well as create an effective ethics program. There will also be exploration and discussion of current ethical issues in the agriculture industry. (29.7 Lec. Hrs.)

AGB:190 Customer Relations in Agriculture   **1.5 cr.**
This course is designed to introduce students to the concepts of customer service and to help them learn the skills and techniques necessary to provide excellent service in the agriculture industry. Students will be able to develop and cultivate professional relationships, make effective decisions and present themselves as a competent, capable representative of the agriculture organization they work for. These skills are vital for every job since identifying and satisfying customer needs is an essential part of every business organization. (29.7 Lec. Hrs.)

AGB:191 Agricultural Sales I   **1.5 cr.**
This course will investigate agricultural sales as a career. Students will study and prepare for the sales process utilizing sales techniques and knowledge of the behavioral sciences. (29.7 Lec. Hrs.)

AGB:192 Agricultural Sales II   **1.75 cr.**
Students will develop an understanding and practice approach, presentation and demonstration techniques using role play situations. The students will learn how to overcome objections and close a sale successfully. (34.65 Lec. Hrs.)
Prerequisite: AGB:191

AGB:193 Agricultural Sales III   **1.25 cr.**
A continuation of Agricultural Sales I and Agricultural Sales II (AGB:191 and AGB:192) with emphasis on sales to agricultural customers. The total scope of the duties of a salesperson is emphasized. Use of the phone in sales is covered. (24.0 Lec. Hrs.)
Prerequisite: AGB:192

AGB:195 Upselling in Agriculture   **1.0 cr.**
This course introduces students to Upselling in Agriculture. (19.8 Lec. Hrs.)

AGB:231 Futures and Options   **1.5 cr.**
Principles of futures market operations, terminology, contract specifications and charting of trends will be discussed in this course. Hedging and how it fits in farm operations will be also be discussed. (29.7 Lec. Hrs.)
Prerequisite: AGC:861

AGB:232 Livestock and Grain Marketing   **3.0 cr.**
This course is the study of agricultural commodity marketing with emphasis on traditional row crop, feed, oil grains and traditional livestock. Topics of value added and direct marketing will also be explored. (59.4 Lec. Hrs.)
Prerequisite: AGB–231

AGB:280 Business Law for Agriculture   **1.5 cr.**
In this course, students will learn and apply business law to the retail agribusiness setting. The course will focus on the legal and social environment of business, contracts, personal property and bailments, sales and leases of personal property, negotiable instruments, debtor–creditor relations and risk management, agency and employment, business organizations, and real property. This course will also address the legal, liability, risk management and security issues of a modern corporate or retail agribusiness. Specific laws will be addressed pertaining to the products and services a business represents. (29.7 Lec. Hrs.)

AGB:299 Farm Business Analysis   **1.5 cr.**
This course covers appropriate record keeping, documentation and analysis of various crops and livestock budgets, cash flow, whole farm budgeting, rental and leasing agreements. (29.7 Lec. Hrs.)
Prerequisite: AGB–302

AGB:301 Applied Accounting – Farm Management I   **1.5 cr.**
Emphasis is placed on the importance of farm recordkeeping as an essential management tool. Inventory, depreciation, receipts and expenses, cash and accrual methods of accounting, net farm income statements and net worth statements are included in this course. The students are given practical recordkeeping problems for experience. (29.7 Lec. Hrs.)

COURSE DESCRIPTIONS

**AGB:302 Applied Accounting –
Farm Mgt II**   **1.5 cr.**
This course will develop the student's understanding of income tax management, depreciation, capital gains, setting up cash flows, net farm income statements, and net worth statements to help the student analyze the farm business.
(29.7 Lec. Hrs.)
Prerequisite: AGB:301

AGB:304 Agricultural Finance   **1.5 cr.**
This course covers the importance of obtaining credit, its wise use, credit sources for farmers and maintaining a good credit rating. Students are exposed to credit instruments and the necessary budgets required for obtaining credit.
(29.7 Lec. Hrs.)

AGB:305 Agricultural Law   **1.5 cr.**
This course is a study of torts, restrictions on the use and ownership of property, water rights, fence issues, employer–employee relationships, forms of business ownership and structure, leasing and renting, estate planning, and contract law as it relates to production agribusiness. (29.7 Lec. Hrs.)

AGB:306 Risk Management   **1.5 cr.**
This course deals with the principles of insurance coverage used in the farm business and other risk management tools available to production agribusiness professionals. This course also presents the fundamental principles and strategies of a diverse risk management portfolio including crop insurance, liability issues and personal finance.
(29.7 Lec. Hrs.)

**AGB:357 Agribusiness Marketing
and Retailing**   **3.0 cr.**
This course provides the student with knowledge required to understand and execute marketing promotions. It equips students with the ability to identify and construct successful public relations campaigns and evaluate advertising communication used in agribusiness. (59.4 Lec. Hrs.)

AGC:103 Ag Computer   **3.0 cr.**
This course introduces students to hardware, software, word processing, presentation, database and spreadsheet programs with an emphasis on how these programs are used in the agriculture industry. This course studies the use of computers and computer software to keep farm records, keep a database of customer profiles or inventory, create professional business documents, and many other tasks that are completed in the world of agriculture.

AGC:861 Farm Experience I   **3.0 cr.**
Through this course students gain practical farm experience over a six week period at an approved employment center. Employment centers are approved and coordinated by a faculty member. Instructors work with students in selecting an employment center. Students receive pay as negotiated during an employment interview.
(237.6 Co-op Hrs.)

AGC:862 Farm Experience II   **1.0 – 4.0 cr.**
Through this course students gain practical farm experience over a six week period at an approved employment center. Employment centers are approved and coordinated by a faculty member. Instructors work with students in selecting an employment center. Students receive pay as negotiated during an employment interview.
(79.2 – 316.8 Co-op Hrs.)
Prerequisite: AGC:861 or consent of instructor

AGC:864 Farm Experience III   **3.0 cr.**
Through this course students gain practical farm experience over a six week period at an approved employment center. Employment centers are approved and coordinated by a faculty member. Instructors work with students in selecting an employment center. Students receive pay as negotiated during an employment interview.
(237.6 Co-op Hrs.)
Prerequisite: AGC:862 or consent of instructor

AGC:865 Farm Experience IV   **1.0 – 4.0 cr.**
Through this course students gain practical farm experience over a six week period at an approved employment center. Employment centers are approved and coordinated by a faculty member. Instructors work with students in selecting an employment center. Students receive pay as negotiated during an employment interview.
(79.2 – 316.8 Co-op Hrs.)
Prerequisite: AGC:864 or consent of instructor

AGC:915 Alpha Mu Sigma I   **1.0 cr.**
Designed to help the student develop a working knowledge of parliamentary procedures, develop the ability to successfully conduct meetings, develop leadership qualities, and develop and foster relationships with other students, Postsecondary Agriculture Students (PAS) chapters, and industry on state and national level. (19.8 Lec. Hrs.)

AGC:916 Alpha Mu Sigma II   **1.0 cr.**
This course is designed to further help students develop a working knowledge of parliamentary procedures, develop the ability to successfully conduct meetings, develop leadership qualities, and develop and foster relationships with other students, Postsecondary Agriculture Student Organization (PAS), and industry on a state and national level. (19.8 Lec. Hrs.)

AGC:918 Seminar I   **1.0 cr.**
This course is designed to offer the student an opportunity to present and discuss current topics, problems, ideas that do not relate to current course content and discuss questions pertaining to the agricultural industry. Instructors will guide discussions and attempt to provide conclusions and develop attitudes conducive to successful farm business management. A major portion of each Seminar course is devoted to the educational programming and leadership activities of Postsecondary Agricultural Students (PAS) organization. This is the first of four sequential courses that are required for graduation from the Farm Management Program. (19.8 Lec. Hrs.)

AGC:919 Seminar II   **1.0 cr.**
This course is designed to offer the student an opportunity to present and discuss current topics, pertaining to the agricultural industry. Instructors will guide discussions and attempt to provide conclusions and develop attitudes conducive to successful farm business management. A major portion of each Seminar course is devoted to the educational programming and leadership activities of Postsecondary Agricultural Students organization. This is the second of two sequential courses that are required for graduation from the Farm Management Program. (19.8 Lec. Hrs.)
Prerequisite: AGC:918

AGC:941 Employment Experience I   **3.0 cr.**
Instructors and students select employment centers to gain practical experience from approved places of business during a six to seven week employment experience period. The experience centers are approved and coordinated by a faculty member. Students receive the appropriate wages during these periods. (237.6 Co-op Hrs.)
Prerequisite: Must be a student in the Agribusiness program; or consent of instructor.

**AGC:942 Employment
Experience II**   **1.0 – 4.0 cr.**
Instructors and students select employment centers to gain practical experience from approved places of business during a six to seven week employment experience period. The experience centers are approved and coordinated by a faculty member. Students receive the appropriate wages during these periods. (79.2 – 316.8 Co-op Hrs.)
Prerequisite: Must be a student in the Agribusiness program.

AGC:943 Employment Experience III   **3.0 cr.**
Instructors and students select employment centers to gain practical experience from approved places of business during a six to seven week employment experience period. The experience centers are approved and coordinated by a faculty member. Students receive the appropriate wages during these periods. (237.6 Co-op Hrs.)
Prerequisite: Must be a student in the Agribusiness program.

**AGC:944 Employment
Experience IV**   **1.0 – 4.0 cr.**
Instructors and students select employment centers to gain practical experience from approved places of business during a six to seven week employment experience period. The experience centers are approved and coordinated by a faculty member. Students receive the appropriate wages during these periods. (79.2 – 316.8 Co-op Hrs)
Prerequisite: Must be a student in the Agribusiness program.

COURSE DESCRIPTIONS

AGH:112 Introduction to Turfgrass Management 3.0 cr.
This is an introductory course discussing the establishment and maintenance practices used on turfgrasses, including plant classification, plant characteristics, warm and cool season grasses, soils and selection of turfgrasses for a site. Students will learn how to apply principles and practices involved in successful maintenance of turfgrass areas. (59.4 Lec. Hrs.)

AGH:115 Turf Management 2.0 cr.
This course introduces the types of grass species and their uses; their growth habits, and development as a unique plant species. Proper culture and establishment procedures are studied as well as their importance to the environment. (39.6 Lec. Hrs.)

AGH:131 Greenhouse Management 3.0 cr.
This course presents the management of greenhouse crops. Common commercial crops are addressed and techniques used in the production of greenhouse crops are demonstrated. (59.4 Lec. Hrs.)

AGH:142 Landscape Construction 3.0 cr.
Principles and practices of landscape construction will be explained. Curriculum encompasses process from initial client contact to installation of plant material and hardscape. Laboratory work in the course involves landscape installation using various materials and techniques. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

AGH:143 Equipment Repair 3.0 cr.
This course is designed for basic maintenance of mechanical, hydraulic, and electrical systems of horticulture equipment. Major topics will include safety, tools, small engine maintenance(both 2-cycle and 4-cycle), trouble shooting , and other equipment used in the horticulture industry. (49.5 Lec. Hrs. / 19.8 Lab Hrs.)

AGH:152 Landscape Design Techniques 3.0 cr.
Studies the theory and principles of landscape design as they are applied to selected problems in landscape development. The use of trees, shrubs, and planting in the public, living and service area of the home will be included. (59.4 Lec. Hrs.)

AGH:159 Landscape Graphics 2.0 cr.
This course is an introduction to landscape graphics associated with drafting equipment and materials, and computer aided drawings (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGH:152 with a minimum grade of C

AGH:161 Irrigation Systems 3.0 cr.
Familiarize the students with the basics of the irrigation system and the components involved. Some of the components include: heads, valves, controllers, pipes, and other accessories used in an irrigation system, plus troubleshooting. (39.6 Lec. Hrs. / 39.6 Lab Hrs)

AGH:200 Landscape Estimating and Bidding 2.0 cr.
This course focuses on the fundamentals of creating a landscape project estimate including material take-offs, plant pricing, labor rates, measuring, reading landscape plans and math calculations. (39.6 Lec. Hrs.)

AGH:211 Advanced Turfgrass Management 3.0 cr.
This course concentrates on practices that will promote a healthy turf area after it is fully established. (59.4 Lec. Hrs.)
Prerequisite: AGH:112

AGH:220 Plant Identification I 3.0 cr.
Studies the identification and use of a set of annual, herbaceous perennial and woody ornamental shrubs and trees currently used in Midwestern landscape horticulture. Includes plant identification using botanical nomenclature, specific cultural requirements and how each is used in landscape design. (59.4 Lec. Hrs.)

AGH:221 Principles of Horticulture 3.0 cr.
This course is a study in horticulture. The goal of this course is to provide the basic knowledge in horticulture science and clearly illustrate how that knowledge is applied in both home and production agriculture. (59.4 Lec. Hrs.)

AGH:252 Horticulture Pest Management 3.0 cr.
This course introduces students to the safe handling and use of Horticulture chemicals. Using integrated pest management practices students will explore updated philosophies that protect the environment while controlling common pest. Students will take the state pesticide applicator's exam upon completion of this course. Residents of states other than Iowa should be able to successfully complete those equivalent requirements in those states. (59.4 Lec. Hrs.)

AGH:292 Garden Center Management 3.0 cr.
Display, promotion and merchandising in the modern garden center will be stressed. Problems of distribution functions of marketing and their costs will be studied. Management's role in organizing a business and financial planning will be discussed. (59.4 Lec. Hrs.)

AGH:400 Athletic Field Maintenance 3.0 cr.
Studies specific sport facilities utilizing turf grasses including football, soccer, field hockey, baseball, and softball fields. Techniques of operation, management, maintenance, budgets, construction, and irrigation will be covered. (59.4 Lec. Hrs.)

AGH:801 Turf and Landscape Seminar I 1.0 cr.
This course is designed to be an overview of the Turf and Landscape Industry. Students will be introduced to local experts in different areas of the Turf and Landscape Industry and will be expected to research and discuss current industry topics. (19.8 Lec. Hrs.)

AGH:821 Turf and Landscape Seminar II 1.0 cr.
This course is designed to provide students the opportunity to discuss current issues in horticulture and meet horticulture professionals as well as other horticulture students throughout the region. This course is designed to improve career skills and investigate possible careers in the turf and landscape field. (19.8 Lec. Hrs.)

AGM:130 Farm Electrification 1.5 cr.
This is a basic electrical planning course which includes farmstead distribution planning, layout of circuits, electrical code, and selection of electric motors. Wiring skills will be a major emphasis of this course. (29.7 Lec. Hrs.)

AGM:157 Machinery Management 3.0 cr.
The economics of machinery selection and use will receive major emphasis. Management decisions concerning size of machine, purchasing, and the operation of major farm machines will also be topics for class consideration. (59.4 Lec. Hrs.)

AGM:160 Farm Structures 1.5 cr.
A course in building materials and planning to provide the student with fundamental knowledge needed in selecting economical, flexible and highly useful farm buildings. Structure trends, types, building materials and plan reading will be emphasized. (29.7 Lec. Hrs.)

AGM:423 Equipment & Diesel Performance 2.0 cr.
In this course, students will learn about the operation of and how to repair and maintain farm equipment, with special emphasis on diesel engine performance. The focus of study will be on diesel engines and components, fuel systems, electronic and performance enhancement technologies, and hydraulic systems. (39.6 Lec. Hrs.)

AGP:243 Precision Agricultural Applications 3.0 cr.
This introductory course is designed to help retail students assist agricultural producers to become more profitable and preserve non-renewable resources, identify computer hardware and software needs, and to make recommendations to producers based on agronomic and economic data. This course will concentrate on the theories and applications of Geographic Information Systems (GIS), Site Specific Farming (SSF), Precision Farming (PF) and Global Positioning Systems (GPS) and will explore various tools for Variable Rate Technology (VRT) and Variable Rate Application (VRA). Utilization of remote sensing data as a diagnostic tool for managerial decisions will be emphasized. (59.4 Lec. Hrs.)

COURSE DESCRIPTIONS

AGP:420 Geospatial Data Collection   3.0 cr.
This course introduces students to Global Positioning System (GPS) and how it can be used in collecting relevant agricultural data. Students learn about GPS equipment, related field procedures, and preliminary analysis of GPS data. Emphasis is on GPS applications related to mapping and decision making projects. The primary purpose is to demonstrate the various tools available in industry to assist GIS Specialists, Precision Ag Technicians, Agronomists, and Soil Surveyors in collecting accurate field data. The most important equipment used in this course will consist of GPS receivers and devices for spatial data activities. (59.4 Lec. Hrs.)

AGS:119 Advanced Animal Science   2.0 cr.
This course is designed to provide students with an understanding of the practices, management programs, labor requirements, reproduction programs, gestation periods, sanitation, health, and disease control concerns of livestock management. The student will also gain background knowledge needed to comprehensively advise livestock producers on livestock production enterprises. (39.6 Lec. Hrs.)

AGS:180 Sheep Production   1.5 cr.
Students will gain the basic production principles necessary for raising sheep. Topics will include genetics, reproduction, health, nutrition and management. (29.7 Lec. Hrs.)

AGS:315 Principles of Animal Nutrition   3.0 cr.
This course is a study of the digestive systems of farm livestock, the basic food nutrients, how and why they are needed by the animals, and the individual nutrient requirements of each farm animal depending on the stage of growth, development, or function. This course also covers topics such as selection of feeds for feeding farm animals and the procedures used to determine what feeds to use. Students will select the proper feed rations to use and learn to formulate balanced feed rations. (59.4 Lec. Hrs.)

AGS:324 Dairy Production   1.5 cr.
This course is designed to teach students how to profitably manage a dairy herd. Consideration is given to rations, feeding practices, care of replacements and use of records. (29.7 Lec. Hrs.)

AGS:352 Genetics   1.5 cr.
This course deals with basic genetics principles as applied to crop and livestock science. Topics will include selection, breeding systems, breeding animals on individual type, progeny testing and genetic improvement. Seed selection based on hybrid characteristics and basic biotechnological advances will be discussed. (29.7 Lec. Hrs.)
Prerequisite: AGC:861

AGS:401 Swine Production   3.0 cr.
This is the first of two courses that together provide the basic knowledge required when planning to operate a profitable swine enterprise. Swine facilities from past to present are analyzed with special emphasis on the economic, social, environmental and physical demands of sustainability. Included are the fundamentals of swine care, selection, breeding, reproduction, management and disease prevention and control. (59.4 Lec. Hrs.)

AGS:410 Swine Production II   1.5 cr.
This course is one of two swine courses that together provide a basic foundation required for one planning to operate or become employed by a swine enterprise. Major topics include the fundamentals of swine care in the grower finisher phase, comprehensive management, disease prevention and control. The evaluation of swine, feeding, housing management, sanitation, biosecurity and practices that optimize production efficiency and animal well-being are also covered. This course will also place address the economic, social, environmental and physical demands of swine production sustainability. (29.7 Lec. Hrs.)

AGS:554 Beef Production   3.0 cr.
This course is designed to prepare the student to be successful in the field of beef production. Emphasis is on beef cattle breeding and cow-calf operations in part one and nutrition and herd health in part two. Topics in beef cattle breeding, selection, ration planning, sire evaluation, and approved management practices relevant to Midwest operations. Topics in cow-calf operation include cow-calf production records, breed selection, reproduction, economics and marketing and feed processing. (59.4 Lec. Hrs.)

AGV:113 Canine and Feline Nutrition   2.0 cr.
This course highlights nutrition as an essential component of pet care. The student will learn basic nutrition and the nutrient requirements for feeding and maintaining healthy dogs and cats. This course teaches students to provide optimal nutritional care for pets. (39.6 Lec. Hrs.)
Prerequisite: AGV:118, AGV:127

AGV:114 Microbiology for Veterinary Technicians   3.0 cr.
This course highlights the opportunity for the students to learn the techniques used to identify the various forms of microorganisms, including bacteria and fungi that cause clinical illness. Students will learn culture techniques and determine antimicrobial agents of choice through sensitivity testing. The student will know how to use this information to assist the veterinarian in the diagnosis and treatment of these diseases. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:133

AGV:118 Animal Anatomy and Physiology I   4.0 cr.
This course introduces the student to the basic concepts of an animal's form, structure, and function. These concepts are then used to study the gross anatomy, microscopic anatomy, and physiology of the animal body. The lab section of the class will give the student an in depth look at the gross anatomy of tissue types and organ systems to help them understand how the body works as a machine. (59.4 Lec. Hrs.)
Prerequisite: BIO:114, CHM:122

AGV:119 Veterinary Medical Terminology   2.0 cr.
This course introduces the student to the language of veterinary medicine. Students will learn to write, pronounce, spell, define, and use medical terminology in the professional setting. The student will be able to apply and demonstrate their knowledge of the terminology in everyday conversations with fellow students, instructors, and veterinary professionals. (39.6 Lec. Hrs.)
Corequisite: AGV:186

AGV:127 Animal Anatomy and Physiology II   4.0 cr.
This course is a continuation of AGV-118, Animal Anatomy & Physiology I. Students will continue to explore the gross anatomy and physiology of the various organ systems including the cardiovascular, respiratory, digestive, nervous, endocrine, urinary, and reproductive systems. The sense organs, pregnancy, development, and lactation will be examined. A small section on avian and exotic anatomy & physiology will be covered. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:118, CHM:122

AGV:130 Clinical Technology I   3.0 cr.
This course highlights communication within the veterinary medical team as well as provides an introduction to veterinary technology as a career. This course covers common names for species, general animal care and restraint, basic principles of a proper physical exam, nutrition, diagnostic techniques, and wound management. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

AGV:131 Clinical Technology II   3.0 cr.
This course is designed to acquaint the students with common business procedures that the veterinary technician may be responsible for, as well as fundamental record keeping procedures, and computer utilization. There will be a presentation on veterinary careers, including a discussion on job placement, and interviewing. Veterinary ethics will also be discussed. (59.4 Lec. Hrs.)
Prerequisite: AGV:119, AGV:130

COURSE DESCRIPTIONS

AGV:133 Veterinary Clinic Pathology I   3.0 cr.
This course will introduce students to the veterinary laboratory. Students will to learn the techniques used to identify the various forms of Microorganisms including bacteria, viruses,and fungi that cause illness. Students will learn culture technique as well as sensitivity testing to determine antibiotics of choice for these organisms. Various animal internal and external parasites, their life cycles and methods of detection will be taught. Students will learn history, terminology, equipment, structure, and classification of the various veterinary organisms. Students will be acquainted with the microscope, laboratory facility, and various preparation techniques available.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:118, AGV:119, and AGV:130

AGV:134 Veterinary Clinic Pathology II 3.0 cr.
This course is designed to familiarize students with the part of the laboratory that is devoted to analyzing blood, urine, cytology smears, and cytology preparation. It will acquaint the students with laboratory equipment, reagents, and techniques required to utilize blood samples and other bodily fluids as a diagnostic aid.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:118, AGV:133

AGV:140 Veterinary Pharmacology   3.0 cr.
This course covers the study of drugs and other pharmaceuticals used in veterinary medicine. Emphasis will be on drug usage, client education, calculations, measurement, administration, inventory, and storage. This course will give a detailed outline of the technician's role and responsibility in the pharmacy. (59.4 Lec. Hrs.)
Prerequisite: AGV:118, AGV:131, and AGV:133

AGV:146 Large Animal Care   3.0 cr.
Information will be given regarding the large animal industry, management, and husbandry. Diseases and common clinical procedures including restraint, diagnostic testing, bandaging, surgery and anesthesia, fluid therapy, medical nursing, and euthanasia and necropsy.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:18, AGV:19, and AGV:130

AGV:149 Large Animal Diseases   1.0 cr.
This course will introduce students to issues related to diseases of large animals. (19.8 Lec. Hrs.)
Prerequisite: AGV:127 and AGV:146

AGV:159 Surgical Nursing   3.0 cr.
Introduces the student to the methods and mechanics of the sterilization process. Course covers the technician's role in the surgery room as well as patient prep, sterile techniques, surgical instrument identification, pack preparation, and surgical nursing care. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:140, AGV:232, and AGV:248

AGV:170 Veterinary Anesthesiology   3.0 cr.
This course involves the study of pharmacology, application of anesthetic agents, the physiological effects and means of monitoring them, principles and administration of inhalant anesthetics, and a broad overview of anesthetic protocol and care. Emphasis will be on anesthetic practical skills and anesthesia equipment.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:134, AGV:140, and AGV:248

AGV:182 Diagnostic Imaging   3.0 cr.
This course is designed to familiarize the student with the x-ray machine, darkroom, troubleshooting techniques, and radiation safety. Areas of emphasis will include technique failures, positioning, and standard diagnostic procedures. It will also introduce the student to digital radiography and ultrasound technologies.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:127 and AGV:131 with a minimum grade of C.

AGV:184 Lab Animal Medicine   2.0 cr.
This course is designed to give the student a broad overview of laboratory animal medicine and technology. It will show the student how to utilize and manage various species in a research environment. Emphasis will be on the laboratory setting, regulatory guidelines, and ethical considerations, as well as information on handling, behavior, nutrition, lab, and treatment procedures.
(29.7 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: AGV:119 and AGV:131

AGV:186 Canine and Feline Behavior   2.0 cr.
This course teaches students to have an understanding of small animals' behavior, primarily canines and felines, to assist clients with choosing and training their pets as well as to maintain a controlled veterinary office setting. Techniques in preventing and resolving behavior problems will be discussed. (39.6 Lec. Hrs.)
Prerequisite: AGV:130

AGV:232 Clinical Technology III   4.0 cr.
This course is a continuation of Clinical Technology I & II. It includes information on preventative medicine, pathology and response to diseases, fluid therapy and blood transfusions, dentistry, and emergency and critical care. In addition to new information the student will also be able to review any areas of concern or techniques in order to prepare for the upcoming national exam.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AGV:113, AGV:127, AGV:131, and AGV:133

**AGV:248 Surgery and Anesthesia for
Vet Techs   2.0 cr.**
This course will introduce the student surgery and anesthesia as it pertains to veterinary medicine.
(29.7 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: AGV:119, AGV:127, AGV:131, and AGV:146

AGV:933 Internship   1.0 – 6.0 cr.
During the final semester of the Veterinary Technology Program, each student will complete 250 hours of internship at an approved veterinary practice under the supervision of a licensed veterinarian. Successful completion of this course is required to graduate from the Veterinary Technology program.. (59.4 – 356.4 Clinical Hrs.)
Prerequisite: AGV:159, AGV:170, and consent of Program Director.

ANT:105 Cultural Anthropology   3.0 cr.
This course is a comparative study of culture and social organization and the study of the effect and influence of language. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

ANT:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

**ANT:943 Readings in
Anthropology   1.0 – 2.0 cr.**
Provides the student with additional reading in anthropology, allowing the student to obtain a greater understanding in various problem areas in the discipline. The student has the opportunity to earn one to two credit hours. This course may be repeated twice for additional credits.
(39.6 – 79.2 Lab Hrs.)

ART:101 Art Appreciation   3.0 cr.
Introduction to the history of paintings, sculpture and architecture. Emphasis is on the appreciation of well-known works of art in a variety of media. The artist and the creative process are explored.
(59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

ART:120 2–D Design   3.0 cr.
This course is an introductory design class exploring visual organization, form, content, and creative problem solving in two-dimensional (2-D) pictorial design. Using a variety of art media, students will investigate the definition and expression of design as both a noun and a verb. Students will deepen their understanding of the visual elements as they relate to good design through the creative process.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

COURSE DESCRIPTIONS

ART:133 Drawing   **3.0 cr.**
An introductory drawing course investigating traditional drawing techniques and materials. This class focuses on the realistic depiction of observed forms and objects. Using basic drawing materials, students will concentrate on the construction of still life objects, landscape and the human figure. Perspective, line, value and composition will be examined. Additionally, students will develop their knowledge of Master works and critical arts movements. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ART:134 Drawing II   **3.0 cr.**
An intermediate level drawing course that further explores the use of traditional drawing materials, along with use of some non-traditional materials. This class continues with the study of observed forms and objects with expanded subject matter and development of personal expression through drawing. Development of strong compositional skills will be emphasized. Students in this second-level course will apply some study of human anatomy as it relates to drawing. Students will continue to increase and apply their knowledge of Master works, contemporary artists and critical arts movements to their course work.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ART:133

ART:143 Painting   **3.0 cr.**
A study of artistic principles in the various major paint media. Includes the selection, preparation and use of various surfaces employed. Designed to stress proper selection, usage and maintenance of tools, brushes and palettes. Exercises will teach the student the principles of art, good technical habits and cover special effects in the paint media. Students should demonstrate a working understanding of the properties of paint, color mixing and application, and will gain familiarity with painting terminology. The ability to paint directly from observation will be emphasized.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ART:144 Painting II   **3.0 cr.**
In Painting II students work in a variety of painting media. The student is encouraged to pursue independent painting problems in depth, as well as assigned research areas. An expanded, in-depth study of color theory and composition is presented. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ART:143

ART:157 Printmaking   **3.0 cr.**
Introductory printing course with emphasis in basic printmaking techniques and processes. Printing proficiency in woodblock and serigraph prints will be pursued. Students will be expected to print a minimum of one hour per week outside of class. (59.4 Lec. Hrs.)

ART:161 Digital Art   **3.0 cr.**
This course introduces the computer as a tool for visual communication and creation of various types of art in the Fine and Graphic Art context. It includes raster- and vector-based image-making, digital collage, digital image manipulation, digital painting and drawing, blending of traditional and digital art-making and experimentation in a variety of input and final output methods.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ART:163 Sculpture   **3.0 cr.**
This studio course explores traditional and contemporary sculpture materials and processes. Emphasis is on both additive and subtractive methods of working. Goals include acquiring technical skills, understanding the physical and expressive possibilities of diverse materials, and learning safe, appropriate use of tools and materials.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ART:164 Sculpture II   **3.0 cr.**
A course designed to provide the intermediate art student opportunity to explore in greater depth the processes and techniques of the beginning sculpture course. The general goals of Sculpture II are to generate the artistic vision and the technical ability of each student, work in an individualized and supportive class environment; and strengthen the quality of the student's portfolio.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ART:163

ART:173 Ceramics   **3.0 cr.**
Introductory ceramics course with emphasis on ceramics as a creative art. The student will work with the basic elements of forming, glazing and firing clay. Awareness of three-dimensional design and the effects of glaze, color and texture will be stressed. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ART:174 Ceramics II   **3.0 cr.**
A continuation of ART:173 Ceramics, this course provides the student an opportunity to further explore and develop their artistic vision and technical skills. Students will strengthen the quality of their portfolio. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ART:173

ART:186 Digital Photography   **3.0 cr.**
Digital Photography is designed for the Communications Media majors who focus on the visual arts. It is highly recommended for those who concentrate their studies in video productions and web graphics. The focus of the class is the manipulation of digital images using Adobe146s Photoshop software. Although some basic principles of photography will be discussed, a previous photography course is not a prerequisite for enrollment. Students must be familiar with Microsoft146s Windows operating system software.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ART:203 Art History I   **3.0 cr.**
Designed to investigate the visual arts from earliest prehistoric times through the Middle Ages and the thinking of the people responsible for creating the art. Emphasis in lecture and class discussion will focus on the world's visual creative development from the caves of France through the Middle Ages. (59.4 Lec. Hrs.)

ART:204 Art History II   **3.0 cr.**
Designed to study the significant works of art from the late Gothic period to the present and the thinking of the people responsible for creating the art. Emphasis in lecture and class discussion will focus on the world's visual imagery throughout time. (59.4 Lec. Hrs.)

ART:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

ART:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 -118.8 Lab hrs).

ART:949 Special Topics   **2.0 cr.**
Independent study in painting is a course designed to provide the more advanced student an opportunity to explore in greater depth processes and techniques the students has experienced in previous painting courses. (79.2 Lab Hrs.)
Prerequisite: ART:143, ART:144

ASL:151 American Sign Language I   **5.0 cr.**
This course introduces students interpersonal communication skills utilizing conversational ASL. In additions students will be introduced to cultural beliefs, values, and attitudes within American Deaf culture. This course will prepare students to use ASL both in and outside of the classroom via interaction with the Deaf Community, establishing a foundation for life long language learning.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: Ability to enroll in ENG:105.

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ASL:181 American Sign Language II 5.0 cr.
This course is designed to teach interpersonal communication skills utilizing conversational ASL. Introduction of American Deaf cultural beliefs, values and attitudes, and an appreciation of perspectives and contributions of Deaf Americans in the areas of arts and history will be included. This course will prepare students to use ASL both in and outside of the classroom via interaction with the Deaf Community, establishing a foundation for lifelong language learning.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ASL:151 and ability to enroll in ENG:105

ASL:251 American Sign Language III 5.0 cr.
This course expands on basic language skills in American Sign Language (ASL). Students will begin to engage in group conversations, exchange information and communicate with others in a culturally appropriate manner on a wide range of topics. (79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ASL:181

ASL:281 American Sign Language IV 4.0 cr.
This course expands on basic language skills in American Sign Language (ASL). Students will further develop their ability to engage in group conversations, exchange information and communicate with others in a culturally appropriate manner on a wide range of topics.
(79.2 Lec. Hrs.)
Prerequisite: ASL:251

ASL:296 American Sign Language V 4.0 cr.
This course is designed to teach academic and technical communication skills utilizing American Sign Language (ASL). Students will expand their presentation and communication skills to discuss technical topics such as mathematical or scientific terminology. Discussion of American Deaf cultural beliefs, values, and attitudes, as well as an appreciation of the contributions of Deaf Americans in the areas of arts and history, will be included. This course will prepare students to use ASL both in and outside of the classroom via interactions with the Deaf Community.
(79.2 Lec. Hrs.)
Prerequisite: ASL:281

ASL:297 American Sign Language VI 4.0 cr.
This course is designed to build on previous American Sign Language (ASL) courses to develop apply advanced level discourse skills in areas such as medical, scientific, and religious topics utilizing ASL. Discussion of American Deaf cultural beliefs, values, and attitudes as well as an appreciation of the contributions of Deaf Americans will be included. This course will prepare students to use ASL both in and outside of the classroom via interactions with the Deaf Community.
(79.2 Lec. Hrs.)
Prerequisite: ASL:296

ATR:105 Industrial Robotics 3.0 cr.
The student enrolled in Industrial Robotics will learn the history and evolution of industrial robots, the basic parts of a robotic work cell, robot motion and input/output programming, safe interaction with robot while programming, robot power systems and basic robot troubleshooting and maintenance procedures. While in the lab the student will program industrial robots to perform various functions. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELE:225

ATR:106 Motion Control 3.0 cr.
This course provides the student with an understanding of the concepts, terminology, functionality, and applications of motion control. This course will provide the foundation for learning the skills necessary to maintain and program motion control systems. Topics include servo motors, stepper motors, motion controllers, feedback systems, and servo-mechanisms.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELT:312

ATR:276 Networking for Industry 3.0 cr.
This course gives the student experiences with common types of networks used in industrial locations. The student will learn computer communication techniques and gain hands on experience with RS 232, RS 422 and Ethernet networks.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

AUT:103 Survey of Auto Technology 1.5 cr.
This course is designed to introduce the student to a variety of tasks and skills commonly used in the automotive technology repair field. Topics will include basic maintenance and electrical service, engine performance service, brake, tire & wheel service and gasoline engine operation and repair.
(59.4 Lab Hrs.)
Corequisite: AUT:115

AUT:115 Automotive Shop Safety 1.0 cr.
This course is designed to acquaint the student with the proper personal and shop safety procedures needed to function in an automotive or truck shop. Students will learn general safety rules and work place safety including Right to Know and Occupational Safety and Health Administration (OSHA) Regulations. Basic first aid will also be discussed. (19.8 Lec. Hrs.)

AUT:164 Automotive Engine Repair 4.0 cr.
This course introduces the basic theory of two-cycle and four-cycle gasoline engines and their application. Students will participate in the disassembly, inspection and reassembly of an engine. Cooling, lubrication, induction, exhaust, compression and valve systems will be discussed. Students will develop competencies in precision measuring and services procedures.
(39.6 Lec. Hrs. / 118.8 Lab Hrs.)
Corequisite: AUT:115

AUT:232 Automotive Transmission I 3.0 cr.
This course is designed to provide basic knowledge in the diagnosis and repair of the automatic transmission. The student will develop skills necessary to perform in-car automatic transmission service. The student will also develop an understanding of the operation and service of torque converters, planetary gear trains and hydraulic components used in automatic transmissions. In-car service, as well as, removal-installation and overhaul procedures will be stressed in the lab portion of this course. (39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:115

AUT:233 Automotive Transmission II 3.0 cr.
This course is designed to provide advanced knowledge and skills in the diagnosis and repair of automatic transmissions and transaxles. The student will develop skills in reading transmission hydraulic control circuit schematics. The student will perform diagnosis of electronically controlled automatic transmissions and transaxles. The student will dis-assemble and re-assemble an automatic overdrive transaxle. The use of pressure gauges, scan tools and other test equipment will be practiced. (34.65 Lec. Hrs. / 74.25 Lab Hrs.)
Prerequisite: AUT:232

AUT:304 Automotive Manual Drive Train and Axles 4.0 cr.
Provides basic knowledge in automotive clutches, standard transmissions, transaxles and differentials. Basic theory, diagnosis and service procedures are covered. Students will be able to correctly disassemble and reassemble standard transmissions, transaxles and differentials in accordance with manufacturers' guidelines.
(49.5 Lec. Hrs. / 89.1 Lab Hrs.)
Prerequisite: AUT:115

AUT:404 Automotive Suspension and Steering 4.0 cr.
This course deals specifically with automobile suspension and steering systems. Specific skills needed for the development of competencies will be taught. Competencies are aimed for skills as an entry-level suspension and steering specialist. (49.5 Lec. Hrs. / 89.1 Lab Hrs.)
Prerequisite: AUT:115

AUT:524 Automotive Brake Systems And Service 4.0 cr.
This course deals specifically with disc and drum brakes, power and conventional braking systems and emergency braking systems used on today's cars and light trucks. The use of measuring tools, brake lathes and antilock brake system (ABS) scan tools will be stressed. Students will develop competencies aimed at entry-level skills as a brake specialist. (49.5 Lec. Hrs. / 89.1 Lab Hrs.)
Prerequisite: AUT:115

COURSE DESCRIPTIONS

AUT:606 Basic Automotive Electricity/ Electronics 3.0 cr.
This course introduces the student to basic electrical and electronic principles applied to automotive electrical circuits. Lab sessions are spent turning theory into "hands-on" practice.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:115

AUT:614 Automotive Electrical I 3.0 cr.
This course introduces the student to basic automotive battery, charging, and starting systems. The operating principles will be discussed during the lecture sessions. Lab sessions will be spent practicing testing, diagnosis, and repair.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:606

AUT:656 Automotive Electrical II 4.0 cr.
This course deals specifically with the automobile chassis electrical systems. The student will be taught how automobile circuits are wired and how they operate. Troubleshooting and repair of the systems will be stressed. Upon completion, the student should be able to demonstrate an understanding of the operation and design of chassis electrical systems.
(59.4 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:606, AUT:614

AUT:704 Automotive Heating and Air Conditioning 4.0 cr.
This course provides students with a basic knowledge in automotive heating and air conditioning. Basic theory, system diagnosis and service procedures are covered. Students will be taught to troubleshoot, purge, evacuate, charge and performance test an automobile or truck air conditioning system. (59.4 Lec. Hrs. / 59.4 Lab Hrs.)

AUT:802 Engine Performance I 3.0 cr.
This course is designed to train the student in engine mechanical testing and ignition testing. Basic ignition system theory, operation, and diagnosis will be covered. Electronic (EI) and distributor (DI) ignition systems will be discussed. Lab time will be used to learn the use of diagnostic equipment in troubleshooting and repair of engine mechanical and ignition systems as they relate to drivability.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Corequisite: AUT:115, AUT:606

AUT:811 Engine Performance II 4.0 cr.
This course is designed to give students an understanding of electronic fuel injection and the use of computer controls in today's automobiles. The course will present Electronic Fuel Injection theory and component operation as well as automotive computer operation, sensor inputs and actuator outputs. Diagnosis and testing of these systems will be discussed and practiced. Similarities and differences of various Original Equipment Manufacturer systems will be discussed.
(59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: AUT:802

AUT:817 Automotive Engine Performance III 3.0 cr.
The course covers automotive emissions, emission control devices, and 5-gas analysis. This course is designed to help the student improve their ability to diagnose drivability problems. Diagnosis and testing will be discussed and practiced. A review of fuel, ignition, and computer system testing will also be included.
(34.65 Lec. Hrs. / 74.25 Lab Hrs.)
Prerequisite: AUT:811
Corequisite: AUT:811

AUT:911 Cooperative/Internship 4.0 cr.
This Cooperative/Internship will integrate classroom theory with on-the-job training. The College will assist the student in securing employment related to the student's major field of study and/or career interests. Under the supervision of the College and the employer the student participates in job training experiences. Student eligibility consists of the successful completion of 12 credit hours with EICC with at least two courses in the chosen major and maintenance of a grade point average of 2.0 or higher. Eligibility requirements and credit hours available vary by program area.
(316.8 Co-op Hrs.)
Prerequisite: Complete minimum of 12 EICC credit hours with at least two AUT courses. Minumum Grade Point Average of 2.0 and consent of faculty coordinator.

AVR:101 Introduction to EON Studio 3.0 cr.
This course offers students an introduction to the EON Studio development environment, with a focus on developing content for virtual and augmented reality applications. Students will learn the basics of interactive content development in EON Studio. Topics to be covered include basics of EON Studio, development and deployment for stereoscopic systems, solutions with natural interfaces, mobile application development, development for head mounted displays, and programming the physics in real-time rendering applications.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Corequisites: CIS:148, CIS:248, CIS:222, CIS:322

AVR:105 Augmented and Virtual Reality Projects 7.0 cr.
In this course, students will complete real world augmented and virtual reality projects for real companies, under the direct supervision of the instructor. Students will participate in projects that apply not only the technical skills learned in previous coursework, but also practice skills such as project management, Agile methodology, teamwork, collaboration, and presentation and leadership skills. (415.80 Lab. Hrs.)
Perquisite: AVR:101

AVR:110 Introduction to Unity 3.0 cr.
This course offers students an introduction to the Unity game development environment, with a focus on developing content for virtual and augmented reality applications. Students are expected to have some previous experience in AR/VR content development and coding. Topics to be covered include an introduction to C# syntax and object oriented programming techniques; object creation in Unity; rigging, lighting, materials and shaders; scripting and troubleshooting; scene and character creation; animation; and application optimization and deployment. Students will complete the class by developing their own augmented reality business cards using the Unity platform.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Perquisite: CIS:169

BCA:120 Computer Orientation 1.0 cr.
This is a first-semester course required of all Administrative and Office Support students. This course must be completed prior to enrolling in other computer-related courses in the program. The student will receive hands-on experience of introductory concepts of the computer. The class will cover basic computer hardware and software, how to work with files and folders, and a brief overview of the Internet.
(14.85 Lec. Hrs. / 9.9 Lab Hrs.)

BCA:129 Basic Word Processing 2.0 cr.
This course is designed to give the student an introductory knowledge of an industry-standard word processing software. Topics to be covered include creating, printing, and editing documents; formatting characters and paragraphs; formatting documents and sections; printing envelopes and labels; using templates; cutting and pasting text within and between documents; and creating headers, footers; footnotes and endnotes in reports; and creating tables with a graph.
(39.6 Lec. Hrs.)
Prerequisite: ADM:105 or consent of instructor

BCA:130 Advanced Word Processing 2.0 cr.
This course is designed to give the student advanced applications of an industry standard word processing software. Topics to be covered may include the production of documents using headers and footers, footnotes and endnotes, find and replace, advanced level tables and charts applications, columnar reports, outlines, forms and templates. (39.6 Lec. Hrs.)
Prerequisite: BCA:129

BCA:147 Basic Spreadsheets 2.0 cr.
This course offers the student the opportunity to learn the fundamentals of Microsoft Excel, to be exposed to practical examples of the computer as a useful tool, and to become acquainted with the proper procedures to create worksheets suitable for course work, professional purposes, and personal use. The student will learn to write formulas and use built-in functions, answer what-if questions, format spreadsheets, create graphs, and use the database functions of spread-sheets.
(39.6 Lec. Hrs.)

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BCA:148 Advanced Spreadsheets **2.0 cr.**
This class is designed to take the student beyond the fundamentals of spreadsheets and to give them the opportunity to learn how to solve complex spreadsheet problems. Some of the topics include financial functions, templates, 3-D references in formulas, macros, an introduction to Visual Basic for Applications (VBA) for Excel, the Solve command, and pivot charts and pivot tables. (39.6 Lec. Hrs.)
Prerequisite: BCA:147

BCA:165 Basic Databases **2.0 cr.**
This course provides basic training using Microsoft Access, a database management system. The term database describes a collection of data organized in a manner that allows access, retrieval and use of that data. Using Access, students will create databases; add, change, and delete records in tables; stablish relationships among tables; sort and index data; retrieve data using queries; and calculate statistics from the databases. In addition, students will create and edit forms for data entry and reports for more formal presentation of the data. (29.7 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: BCA:120 or CSC:110

BCA:188 Computer Fundamentals for Technicians **3.0 cr.**
This course introduces students to personal computer concepts and the basics of using computer applications. Students gain knowledge and skills using Microsoft operating systems and applications including word processing, spreadsheet and presentation software. Students also gain experience using the Internet and email. Conducting research and creating appropriate citations will be emphasized. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

BCA:220 Integrated Computer Business Applications **2.0 cr.**
This is an advanced course in microcomputer software applications. Students will plan and create spreadsheets, databases, presentations and world processing documents using integrated systems software that allows for data transfer among applications. (39.6 Lec. Hrs.)
Prerequisite: BCA:130 and BCA:147 and BCA:165, or CSC:110. Ability to register for college level reading and writing courses as determined by appropriate college placement tests.

BCA:226 Integrated Software Applications **3.0 cr.**
This is an advanced course in microcomputer software applications. Students will plan and create spreadsheets, databases, presentations and word processing documents using integrated systems software that allows for data transfer among applications. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ADM:130, BCA:134, and CSC:110

BCA:250 Desktop Publishing **3.0 cr.**
This course takes the student beyond the basic commands of word processing while gaining knowledge and practice in desktop publishing by integrating both graphics and text. The student will learn advanced features of the word processing software, such as creating and applying styles, macros, and master documents. Decision making skills will be used to complete desktop publishing projects, such as letterheads, business cards, flyers, newsletters, brochures and certificates. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: BCA:130

BCA:711 Introduction to Microsoft PowerPoint **1.0 cr.**
PowerPoint skills are needed to help deliver a dynamic, professional-looking message to an audience. Customized visual presentations contain diagrams, charts, tables, pictures, shapes, videos, sounds and animation effects to make presentations more effective. Students will learn how to customize presentations that will reinforce a speaker's message and help the audience retain information presented.
(14.85 Lec. Hrs. / 9.9 Lab Hrs.)
Prerequisite: A minimum grade of C in BCA:120 or CSC:110

BCA:722 Introduction to the Internet **1.0 cr.**
Students are introduced to the World Wide Web and its components. They will explore the World Wide Web and learn how the Web is organized; URLs; browsing Web pages; Web page management techniques; and saving and printing material obtained from a website. In addition, they will learn techniques for searching the vast amount of material using search engines. (19.8 Lec. Hrs.)
Test Out Available.
Prerequisite: BCA:106, BCA:118

BCA:732 Getting Organized with Outlook **1.0 cr.**
In this course students will discover the benefits of using a powerful desktop information management program. They will learn how this program can assist in organizing a busy schedule, keeping track of files, and communicating with others. Topics include sending e-mail messages; generating and managing daily, weekly, and monthly schedules; printing and saving a calendar; generating a list of contacts; and creating and printing tasks. (14.85 Lec. Hrs. / 9.9 Lab Hrs.)
Test Out Available.
Prerequisite: A minimum grade of C in BCA:120 or CSC:110. Basic computer navigation. Ability to register for college level reading and writing courses as determined by appropriate college placement tests.

BIO:105 Introductory Biology **4.0 cr.**
This course is an introduction to the science of biology for students who are not majoring in biology or health-related fields. Course topics include the scientific method, evaluating scientific literature, basic chemistry, the structure and function of cells and their organelles, energy transformations, cellular reproduction, genetics and inheritance, DNA applications, evolution, and the classification of organisms. This course is not intended to replace or substitute for BIO114 or BIO115. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.

BIO:114 General Biology IA **4.0 cr.**
This course is an introduction to the basic principles of biology. Topics studied include chemical applications in biology, cellular biology, bioenergetics, cell division, and genetics.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: HIT:139, MAT:047 or MAT:053 and RDG:032 or RDG:033; or minimum math and reading placement scores based on college assessment.

BIO:115 General Biology IIA **4.0 cr.**
This course is a continuation of General Biology IA (BIO:114). Course topics include evolution, biological diversity, plant and animal anatomy and physiology and ecology.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: BIO:114

BIO:125 Plant Biology **4.0 cr.**
This course is an introduction to the study of plants, emphasizing structure, function, reproduction, and diversity. Topics include basic plant anatomy and physiology and the evolution of plant diversity. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: ENG:013, MAT:041 or MAT:053; or minimum English and math placement scores based on college assessment.

BIO:133 Ecology **3.0 cr.**
Introduction to ecological concepts; the interdependence of organisms the totality and patterns or relations between organisms and their environment. (59.4 Lec. Hrs.)

BIO:136 Field Ecology **1.0**
A survey of the flora and fauna of various habitats including classification, life history data and ecology. Emphasis is on field observations and techniques useful in analysis of natural populations. (19.8 Hrs.)

BIO:137 Field Ecology **2.0 cr.**
A survey of the flora and fauna of various habitats including classification, life history, data and ecology. Emphasis is on field observations and techniques useful in analysis of natural populations. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

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BIO:138 Field Ecology   **3.0 cr.**
A survey of the flora and fauna of various habitats including classification, life history data and ecology. Emphasis is on field observations and techniques useful in analysis of natural populations. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

BIO:139 Field Ecology   **4.0 cr.**
A survey of the flora and fauna of various habitats including classification, life history data and ecology. Emphasis is on field observations and techniques useful in analysis of natural populations. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)

BIO:151 Nutrition   **3.0 cr.**
This course explores dietary sources, functions, and requirements of major nutrients for all individuals. Course topics include tools for healthy eating, digestion and absorption, the macronutrients, vitamins and minerals, water balance, energy balance, food safety and technology, and nutrition during the life stages. This course will also include the role that culture, diversity, and socioeconomic status plays in nutritional health. (59.4 Lec. Hrs.)
Prerequisite: MAT:053, or MAT:065; or minimum reading and math placement score based on college assessment.
Corequisite: ENG:105

BIO:157 Human Biology   **4.0 cr.**
This course is designed for students who are not majoring in a science or health-related field. Human Biology is an introductory course in biological science that focuses on the general concepts of life as demonstrated by the human body through its chemistry, organization, and continuity. This course will introduce the structure and function of the human body. Students will study major systems of the human body — with applications to health, disease, genetics, nutrition, and wellness. This course is not equivalent to or intended to replace BIO:114 or BIO:168.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.))
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: RDG:032 or RDG:033; or minimum reading placement score based on college assessment.

BIO:163 Essentials of Anatomy and Physiology   **4.0 cr.**
This course covers the fundamentals of human anatomy and physiology. Units of study include basic chemistry, cell structure and function, tissues and the systems of the body, including integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: RDG:033 or minimum reading placement score based on college assessment.

BIO:168 Human Anatomy and Physiology I   **4.0 cr.**
This course is a study of the structure and function of the human body. The study begins at the cellular level and proceeds through selected organ systems including integumentary, skeletal, muscular, nervous, and endocrine.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: BIO:114 or one year of high school biology within the last five years. CHM:110, CHM:122, CHM:165, or CHM:179; or one year of high school chemistry within the last five years.

BIO:173 Human Anatomy and Physiology II   **4.0 cr.**
The second course in a two-semester sequence. The content includes the completion of the study of the organ systems: cardiovascular, lymphatic/immune, respiratory, digestive / metabolism, urinary, and reproductive.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: BIO:168

BIO:186 Microbiology   **4.0 cr.**
This course is an in-depth examination of the microbial world, with emphasis on classification, reproduction, genetics, physiology, infectious disease, and control. Laboratory exercises will be directed toward the use of equipment and identification of clinically and economically important organisms. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: BIO:114 or BIO:168

BIO:226 Local Flora   **3.0 cr.**
This course examines the identification, ecology, and distribution of common native and exotic trees, shrubs, flowers, and other plants of the Upper Midwest. (59.4 Lec. Hrs.)
Prerequisite: BIO:115

BIO:255 Neuroanatomy   **3.0 cr.**
The gross anatomy of the brain and spinal cord will be discussed. Emphasis will be placed on clinical applications of the functional anatomy of the nervous system. Topics will include the structure and function of the sensory and motor pathways, basal ganglia, cranial nerves, ventricular system, vascular system and peripheral nervous system. (59.4 Lec. Hrs.)
Prerequisite: BIO:168 and BIO:173

BIO:280 Biology Projects   **1.0 cr.**
Study of special problems and research into a specific area of biology. (39.6 Lab Hrs.)
Prerequisite: Consent of instructor

BIO:741 PLTW — Principles of Biomedical Science   **3.0 cr.**
This course provides an introduction to the biomedical sciences utilizing hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Students will investigate lifestyle choices, medical treatments, and demonstrate how the development of disease is related to changes in human body systems. (59.4 Lec. Hrs.)
Prerequisite: Complete high school Biology with grade of C or better.

BIO:921 Field Biology   **4.0 cr.**
Study of organismic interactions with biotic and abiotic components of the environment. Includes observation, collection, identification and preservation of local flora and fauna.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)

BIO:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

BIO:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

BUS:102 Introduction to Business   **3.0 cr.**
This course is designed to introduce the student to American contemporary business, its nature and environment. A survey course providing exposure to the social responsibilities of business, management, production, human resources, marketing, finance, quantitative methods, world business law. Recommended to be taken early in business program. (59.4 Lec. Hrs.)

BUS:106 Employment Strategy   **2.0 cr.**
Students will complete assignments focused on their individual career targets, while developing successful lifetime job search skills and career management tools. Students will also learn job search techniques, such as completing employment applications, preparing letters of application and resumes, and participating in a mock interview. (39.6 Lec. Hrs.)
Prerequisite: ADM:105, ADM:157

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BUS:110 Business Math and Calculators   **3.0 cr.**
This course is a review of math fundamentals and their application to business. Topics covered include multiplication, division, fractions, percentage, interest, discounts, etc. (59.4 Lec. Hrs.)

BUS:130 Introduction to Entrepreneurship   **3.0 cr.**
This course is designed for the student interested in developing knowledge in the area of small business management and entrepreneurship. Emphasis is on the essential concepts and techniques related to the start up of a small firm. (59.4 Lec. Hrs.)
Prerequisite: ENG:013, MAT:063 and RDG:045; or minimum English, math and reading placement scores based on college assessment.

BUS:135 Managing the Entrepreneurial Venture   **3.0 cr.**
This course will introduce the student to contemporary business, its nature and environment. Also, this course will provide exposure to managerial functions such as planning, decision making, staffing, organizing and directing. The student will develop a basic understanding of financial accounting concepts and systems. This course also provides a comprehensive introduction to the diversified services offered by the banking industry. (59.4 Lec. Hrs.)
Prerequisite: BUS:147

BUS:147 The Successful Entrepreneur   **3.0 cr.**
This course will provide an integrated, analytical and managerial approach to the study of marketing. Legal issues, financial and economic forces are also analyzed as relative to becoming a successful entrepreneur. (59.4 Lec. Hrs.)
Prerequisite: BUS:130

BUS:161 Human Relations   **3.0 cr.**
Provides a foundation of accepted personal and business behavior in office relationships. Personality characteristics with relation to fellow employees and business Associates are an integral part of the course. Topics include motivation of individuals and groups, contribution to a desirable working atmosphere, adjustment to the job, stress management techniques and other areas of human relations. (59.4 Lec. Hrs.)

BUS:167 Leadership and Professionalism   **1.0 cr.**
This course is designed to provide students the opportunity to develop professional growth in the areas of leadership, community service, cooperation, patriotism and business knowledge. Students will be provided opportunities to demonstrate and refine leadership skills both inside and outside of the classroom. (19.8 Lec. Hrs.)

BUS:168 Leadership and Professionalism II   **1.0 cr.**
This course is designed to provide students the opportunity to develop professional growth in the areas of leadership, community service, cooperation, patriotism and business knowledge and is a continuation of Leadership and Professionalism I. Students will be provided opportunities to demonstrate and refine leadership skills both inside and outside of the classroom. (19.8 Lec. Hrs.)
Prerequisite: BUS:167

BUS:180 Business Ethics   **3.0 cr.**
Through this course the student will study ethical principles and the application of ethical principles to situations relevant to decision-making in the professional and business world. (59.4 Lec. Hrs.)

BUS:185 Business Law I   **3.0 cr.**
This course provides the student with a basic knowledge of major concepts in business law. Topics may include an introduction to the legal environment (ethics, the workings of the United States Court system and constitutional law); contracts, employer/employee relations, consumer protection, product liability, social media and intellectual property law, torts criminal law and wills. (59.4 Lec. Hrs.)

BUS:186 Business Law II   **3.0 cr.**
This course is a continuation and expansion of the legal topics covered in BUS:185. Additional topics may include, but are not limited to, sales and lease contracts, warranties, International law, creditor's rights and remedies, bankruptcy law, agency law, Immigration and labor law, consumer law, environmental law, antitrust law, professional liability, and real property and landlord-tenant law. (59.4 Lec. Hrs.)
Prerequisite: BUS:185

BUS:210 Business Statistics   **3.0 cr.**
Through this course students develop an in-depth knowledge of the following statistics principles: frequency distributions, cumulative frequency distributions, relative frequency distributions, histograms, measures of central tendency, measures of dispersion, probability, the Central Limit theorem, confidence interval estimates, methods of sampling, hypothesis testing, analysis of variance, correlation analysis, linear and multiple regression analysis, chi-squared test, time series and forecasting, statistical quality control, and statistical decision-making. (59.4 Lec. Hrs.)
Prerequisite: MAT:156

BUS:293 Principles of Workforce Competitive Advantage   **3.0 cr.**
This course focuses on developing basic professional skills to maximize productivity in the workplace and increase an individual's competitive edge. The emphasis is placed on the student's ability to be prepared for the challenges of everyday situations in the workplace. Major topics include work ethics, workplace values promoted by employers, self-reflection and willingness to make changes as needed, business etiquette, effective communication, teamwork, problem-solving, diversity in the workplace and stress management. (59.4 Lec. Hrs.)

BUS:300 Introduction to Radio Frequency Identification   **3.0 cr.**
Covers Radio Frequency Identification (RFID) concepts and fundamentals, and how emerging electronic product code (EPCglobal) standards are influencing adoption. Content includes RFID capabilities, current applications of RFID in businesses, and practical ways to articulate applications and uses of this technology to potential employers and peers. (59.4 Lec. Hrs.)
Prerequisite: CSC:110 and MGT:260

BUS:302 Radio Frequency Identification (RFID) Software   **3.0 cr.**
This course covers all aspects of Radio Frequency Identification (RFID) software as well as the hardware that is utilized in RFID technology. Specifically students will learn how to install, configure and implement various applications and uses found in the supply chain. Topics include an understanding of the capabilities of the solution and how various applications and uses influence read rates and reliability. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: BUS:300

BUS:908 Cooperative Education   **1.0 – 3.0 cr.**
Cooperative Education Experience will integrate classroom theory with on-the-job training. The College will assist the student in securing employment which will be related to the student's major field of study and/or career interests. Under the supervision of the college and the employer, the student participates in job training experiences. In addition to employment, attendance at scheduled on-campus seminars is required. Seminars may include job searching skills as well as professional development. Student eligibility consists of the successful completion of 12 EICCD credit hours with at least two courses in the major and maintenance of a grade point average of 2.0 or higher. Eligibility requirements and credit hours available vary by program area. (79.2.2 - 237.6 Co-op Hrs.)
Prerequisite: Consent of instructor

COURSE DESCRIPTIONS

BUS:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

BUS:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 –118.8 Lab hrs)

CAD:114 AutoCAD I   **2.0 cr.**
This is a basic course covering the fundamentals of two–dimensional AutoCAD. Students begin with basic shapes and work through multi–view drawings in a series of extensive lessons. During the course students will cover: lines and essential tools; circles and drawing aids; layers, colors, and linetypes; templates, copies, and arrays; arcs and polar arrays; object snaps; text; and dimensions. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

CAD:196 Architectural Drafting   **3.0 cr.**
An introduction to architectural drawing which includes: basic house design, room planning, foundation plans, floor plans, elevations, electrical plans, plumbing plans, HVAC plans, and presentation drawings. The student will be provided enough information to prepare a set of architectural working drawings.(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CAD:114

CAD:263 SolidWorks – Assembly Modeling   **3.0 cr.**
This course will introduce students to the Assembly Modeling functionality of SolidWorks. Topics will include basic assembly functionality, sub–assemblies, creating features at the assembly level and exploded assemblies. Assembly Mates will be covered in order to create complex interconnected models. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: CAD:286
Corequisite: DRF:132

CAD:264 SolidWorks – Detailing   **4.0 cr.**
This course will introduce students to the Detailing or 2D drawing creation functionality of Solid-Works. Students will use orthographic projection skills previously mastered to create multi–view drawings of 3D part models. Drawings will have full associability with the part models allowing automatic updates from part model to drawing and drawing to part model. Students will also use the SolidWorks drawing functionality to create 2D drawings of assembly models. Exploded assembly views will be created and bill of materials generated from the assembly model.
(39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: CAD:263

CAD:286 SolidWorks – Modeling   **3.0 cr.**
This course will introduce students to the basic and more advanced parametric modeling concepts using SolidWorks. Coverage will also include customizing the SolidWorks environment, Parametric Equations and Design Tables. Other areas of coverage will include sweeps, lofts and reference geometry creation. Students will follow tutorials in each chapter and will use the skills learned in the tutorials to complete assigned projects at the end of each chapter. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Corequisite: DRF:131

CAD:287 SolidWorks – Applications   **3.0 cr.**
This is an advanced course dealing with real life manufacturing situations that students will be faced with while using SolidWorks. Multi–body parts, sheet metal and top–down assembly, weldments and 3D–sketching and surfacing and mold tools will be covered.
(29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: CAD:264 and CAD:286

CAD:288 SolidWorks – CSWA Preparation   **3.0 cr.**
This course covers all the areas of study from the previous SolidWorks courses. These include part modeling, assembly modeling and drawing creation. It will prepare students to take the CSWA test which will be administered at the end of the course. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: CAD:287

CAD:290 Introduction to 3D Printing   **3.0 cr.**
The course will begin by introducing students to the historical factors that have helped shape manufacturing over centuries. From there we will address the current and emerging 3D printing applications and describe advantages and limitations of each technology. Students will evaluate real-life scenarios and make possible recommendations for the appropriate printing technology. We will discuss 3D printing technology from a time and cost saving viewpoint based on product requirements. There will be major emphasis placed on discussion of the economic implications of 3D printing which will include impact on business startup and implications on supply chain as well. There will also be a hands on component of this class. Students will be required to download and print a model as well as create a 3D model and then make a .stl file and print it.
(29.7 Lec. Hrs. / 59.4 Lab Hrs.)

CDH:101 Dental Health Legal and Ethical Issues   **3.0 cr.**
This course will provide students with an overview of legal and ethical issues in relation to the role of Community Dental Health Coordinator (CDHC). This course will cover professional conduct, consumer protection, policy, confidentiality and liability as well as Health Insurance Portability and Accountability Act (HIPPA) regulations.
(59.40 Lec. Hrs.)

CDH:105 Oral Health Communication   **2.0 cr.**
This course will provide students with an overview of oral health communication and oral health literacy for the Community Dental Health Coordinator (CDHC). The course will emphasize the impact of oral health literacy on health and will cover also communication strategies including verbal and nonverbal communication skills. (39.60 Lec. Hrs.)

CDH:110 Interviewing Skills for Dental Health Advocate   **3.0 cr.**
This course will provide students with an overview of patient assessment interviewing skills used in the role of Community Dental Health Coordinator (CDHC). This course will cover motivational interviewing, human behaviors, and emphasize behavior change interventions for oral health of dental patients. (59.40 Lec. Hrs.)
Prerequisite: CDH:101 and CDH:105 with a minimum grade of C.

CDH:201 Dental Care Finance   **1.0 cr.**
This course will teach students the procedures used to determine dental payment eligibility. This course will cover public financing available to clients as well as non-governmental third party insurance. (19.80 Lec. Hrs.)
Prerequisite: CDH:110 with a minimum grade of C.

COURSE DESCRIPTIONS

CDH:205 Dental Health Advocacy and Outreach   **4.0 cr.**
This course provides students with an overview of role of the Community Health Worker and the Community Dental Health Coordinator responsibilities. This course will introduce advocacy concepts, processes of advocacy in the community, community outreach topics and strategies, and methods for assisting underserved populations in health and social services. (79.20 Lec. Hrs.)
Prerequisite: CDH:110 with a minimum grade of C.

CDH:901 Internship   **3.0 cr.**
This course will allow students to apply practical application of the Community Dental Health Coordinator (CDHC) skills within an internship setting. (178.20 Clinical Hrs.)
Prerequisite: CDH:205 with a minimum grade of C.

CFR:100 Introduction to Computer Forensics   **3.0 cr.**
This course is designed to to aquaint the student with the field of computer forensics, investigation tools and techniques. Students will explore the set up of an investigator's office and laboratory, as well as examine what computer forensic hardware and software is available. Topics covered include procedures for identification, preservation, and extraction of electronic evidence, auditing and investigation of network and host intrusions and forensic tools. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:107

CHM:110 Introduction to Chemistry   **3.0 cr.**
This course is designed for the student with no high school chemistry background. It is a study of chemistry in our lives and chemical principles preparatory to CHM:122 Introduction to General Chemistry or CHM:132 Introduction to Organic and Biochemistry or CHM:165/166 General Chemistry I. This course is an introduction to the composition and properties of matter, bond types, acids and bases, pH and a description of the major branches of chemistry. This course does not meet the lab science requirement for graduation. (59.4 Lec. Hrs.)
Prerequisite: MAT:047 or MAT:053 or minimum math placement score based on college assessment.

CHM:122 Introduction to General Chemistry   **4.0 cr.**
Introduction to General Chemistry is the first course in a sequence of two introductory chemistry courses with lab. An elementary approach to chemical principles and laboratory practices is taken. Emphasis is placed on the nature of matter, bonding, nomenclature, equations, acids and bases and chemistry as applied to everyday life. This course is intended primarily to fulfill laboratory science requirements and to fulfill chemistry requirements for nursing, dental hygiene, and some home economics and agricultural programs. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: MAT:041 or MAT:053 or minimum math placement score based on college assessment.

CHM:132 Introduction to Organic and Biochemistry   **4.0 cr.**
Introduction to Organic and Biochemistry is a continuation of CHM:122. A study of aliphatic and aromatic compounds, their chemistry and uses in consumer products will be discussed. Example compounds include polymers, drugs and foods. Attention is also given to biologically important compounds: proteins, nucleic acids, carbohydrates and lipids and the chemistry of these molecules in the living organism. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CHM:122

CHM:165 General Chemistry I   **4.0 cr.**
The first course in a sequence of two general chemistry courses for students in pre-med, pre-chiro, pre-vet, pre-dental, pre-pharmacy, pre-engineering, other physical or biological sciences, or liberal arts. Topics include calculation methods, stoichiometry, gases, atomic structure and periodicity, solutions, chemical bonding, and thermochemistry. The five credit-hour course also covers crystal structures and treats the topics listed in greater detail. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: CHM:110, CHM:122, or high school chemistry. MAT:067 or minimum math placement score based on college assessment.

CHM:166 General Chemistry I   **5.0 cr.**
The first course in a sequence of two general chemistry courses for students in pre-med, pre-chiro, pre-vet, pre-dental, pre-pharmacy, pre-engineering, other physical or biological sciences, or liberal arts. Topics include calculation methods, stoichiometry, gases, atomic structure and periodicity, solutions, chemical bonding, and thermochemistry. The five credit-hour course also covers crystal structures and treats the topics listed in greater detail. (79.2 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: CHM:110, CHM:122, or high school chemistry. MAT:067 or minimum math placement score based on college assessment.

CHM:175 General Chemistry II   **4.0 cr.**
A continuation of CHM:165/166. Topics include kinetics, equilibrium, acid-base, thermochemistry, thermodynamics, electrochemistry and solubility equilibrium. The five credit hour course also covers organic chemistry, descriptive chemistry and qualitative analysis. These three topics as well as

nuclear chemistry may be covered as enrichment topics (in the four credit hour course.) A project may be included in the 5-credit course. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: MAT:121
Prerequisite: CHM:165 or CHM:166

CHM:176 General Chemistry II   **5.0 cr.**
A continuation of CHM:165/166. Topics include kinetics, equilibrium, acid-base, thermochemistry, thermodynamics, electrochemistry and solubility equilibrium. The five credit hour course also covers organic chemistry, descriptive chemistry and qualitative analysis. These three topics as well as nuclear chemistry may be covered as enrichment topics (in the four credit hour course.) A project may be included in the 5-credit course. (79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: MAT:121
Prerequisite: CHM:165 or CHM:166

CHM:261 Organic Chemistry I   **4.0 cr.**
Study includes the classes of organic compounds: aliphatic hydrocarbons, aromatic hydrocarbons, alcohols and phenols. Attention is also on methods of instrumental analysis including IR, NMR, and mass spectrometry. A functional group approach with emphasis on nomenclature, structure and bonding, physical properties, basic synthetic reactions and mechanisms. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CHM:175 or CHM:176

CHM:263 Organic Chemistry I   **5.0 cr.**
Study includes the classes of organic compounds: aliphatic hydrocarbons, aromatic hydrocarbons, alcohols and phenols. Attention is also on methods of instrumental analysis including IR, NMR, and mass spectrometry. A functional group approach with emphasis on nomenclature, structure and bonding, physical properties, basic synthetic reactions and mechanisms. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: CHM:175 or CHM:176

CHM:271 Organic Chemistry II   **4.0 cr.**
A continuation of CHM:261/263. Covers topics on (alkyl halides) aromatic hydrocarbons, phenols, ketones and aldehydes, ethers, carboxylic acids, amines and other selected topics in biochemistry. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CHM:261 or CHM:263

CHM:273 Organic Chemistry II   **5.0 cr.**
A continuation of CHM:261/263. Covers topics on (alkyl halides) aromatic hydrocarbons, phenols, ketones and aldehydes, ethers, carboxylic acids, amines and other selected topics in biochemistry. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: CHM:261 or CHM:263

CHM:281 Chemistry Projects   **1.0 cr.**
Chemistry Projects is an individual chemical project, laboratory-oriented course with a written report required at end of semester unless taken as a year-long project. (39.6 Lab Hrs.)
Prerequisite: CHM:165, CHM:166, CHM:261, or CHM:263

COURSE DESCRIPTIONS

CHM:282 Chemistry Projects 2.0 cr.
Chemistry Projects is an individual chemical project, laboratory-oriented course with a written report required at end of semester unless taken as a year-long project. (79.2 Lab Hrs.)
Prerequisite: CHM:165, CHM:166, CHM:261, or CHM:263

CHM:928 Independent Study 1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student.(39.6 –118.8 Lab hrs)

CIM:200 Registry Organization and Operations 3.0 cr.
Students will develop an understanding of the regulatory requirements for an approved cancer program. Emphasis will be given to the requirements outlined by the Commission on Cancer (CoC) of the American College of Surgeons (ACoS), data standards set by the North American Association of Central Cancer Registries (NAACCR), data standards set by the National Cancer Institute (NCI) in its Surveillance, Epidemiology and End Results (SEER) program, data standards set by the World Health Organization (WHO) and other organizations. Legal, ethical and confidentiality issues in both the internal and external settings will be addressed. Students will obtain an overview of the relationships between a registry and other departments within a facility. Basic daily operational tasks, reference resources and computer hardware and software needs will be introduced. (59.4 Lec. Hrs.)
Prerequisite: Completion of HIT diploma, CIM first year coursework or consent of instructor.

CIM:205 Cancer Pathophysiology 3.0 cr.
Cancer Pathophysiology is a focused study of the major histological cell types in which cancer arises. Students will learn to differentiate between a new primary cancer and a recurrence of previous primary cancer cases utilizing the Surveillance on Epidemiology & End Results (SEER) Program guidelines on Multiple Primaries/Histologies. Students will study advanced terminologies used by pathologists on gross and microscopic pathology reports. Students will study cancer epidemiology, diagnostic work up, and current therapies. (59.4 Lec. Hrs.)
Prerequisite: BIO:173, HIT:150

CIM:210 Oncology Coding and Staging Systems 4.0 cr.
This course will focus on the basic concepts of coding and staging of malignant neoplasms. It will provide a general overview of the International Classification of Diseases in Oncology, 3rd Ed. (ICD-O-3) topography codes and International Classification of Disease, 9th Ed. (ICD-9) morphology nomenclature and classification systems. American Joint Committee on Cancer (AJCC) staging, Surveillance, Epidemiology, & End Results (SEER) Summary staging, Collaborative Staging (CS), and extent of disease concepts used by physicians and cancer surveillance organizations to determine treatment and survival will be emphasized. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: Completion of HIT diploma, CIM first year coursework, or consent of instructor.

CIM:215 Abstracting Principles & Practices I 2.0 cr.
Students will be introduced to the principles of cancer registry abstracting. Identification and selection of appropriate clinical information from medical records in a manner consistent with cancer registry regulatory core data item requirements will be emphasized. Recording accurate coding & staging of site-specific cancer information and use of CNExT cancer registry software from C/NET Solutions will be introduced. (79.2 Lab Hrs.)
Prerequisite: Completion of HIT diploma or consent of instructor. CIM:200, CIM:210.

CIM:220 Abstracting Principles & Practices II 2.0 cr.
This course further applies the principles of cancer registry abstracting. Identification and selection of appropriate clinical information from medical records in a manner consistent with cancer registry regulatory core data item requirements; recording, coding and staging site-specific cancer information; and using accuracy, timeliness and completeness of data. (79.2 Lab Hrs.)
Prerequisite: CIM:215

CIM:240 Cancer Patient Follow:Up 2.0 cr.
This course will cover follow-up methodology, confidentiality and ethical issues; identification of second primaries, recurrence, spread of disease and survival data. Physician, patient and other follow-up resources and activities will be introduced. (39.6 Lec. Hrs.)
Prerequisite: Completion of HIT diploma, CIM first year coursework, or consent of instructor.

CIM:250 Cancer Statistics & Epidemiology 3.0 cr.
This course will introduce the student to cancer statistics, principles of epidemiology, cancer surveillance, annual report preparation, presentation of cancer data and special studies. Use of cancer statistical data for marketing and strategic planning will also be studied. (59.4 Lec. Hrs.)
Prerequisite: Completion of HIT diploma, CIM first year coursework, or consent of instructor.

CIM:260 CIM Seminar 1.0 cr.
This course provides a comprehensive discussion of all topics common to the cancer registry profession. Emphasis is placed on application of professional competencies, job search tools and preparation for the certification exam. (19.8 Lec. Hrs.)
Prerequisite: Consent of instructor

CIM:261 CIM Seminar 2.0 cr.
This course provides a comprehensive discussion of all topics common to the cancer registry profession. Emphasis is placed on application of professional competencies, job search tools and preparation for the certification exam. (39.6 Lec. Hrs.)
Prerequisite: A minimum grade of C- in CIM:200 and CIM:240. Must be in program major.

CIM:270 Cancer Registry Practicum 4.0 cr.
Students must have student health forms completed and on file. This course will provide students with hands-on experience in all aspects of registry organization and operation. A total of 198 hours under the supervision of a CTR will be spent by the student abstracting and experiencing all the tasks of a full-time cancer registrar. (237.6 Clinical Hrs.)
Prerequisite: Completion of all other CIM coursework or consent of instructor.

CIM:271 CIM Capstone 6.0 cr.
This course will provide students with hands-on experience in all aspects of registry organization and operation. A total of 160 hours under the supervision of a Cancer Tumor Registrar (CTR) will be spent by the student abstracting and experiencing all the tasks of a full-time cancer registrar. Students must have student health forms completed and on file. (39.6 Lec. Hrs. / 237.6 Clinical Hrs.)
Prerequisite: A minimum grade of C- in the following: CIM:215, CIM:220, CIM:240 or permission from program director. Must be in program major.

CIS:121 Introduction to Programming Logic 3.0 cr.
Introduction to structured programming logic using a variety of methods to solve programming problems. Topics covered include flowcharting, pseudocode, hierarchy charts, truth tables, and logic constructs. The application of these tools will be to the COBOL and Visual Basic languages. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

CIS:138 Introduction to PC Programming 2.0 cr.
Introduction to PC Programming is designed as a beginning programming course. The C++ language is used to teach the programming concepts of selection, iteration, arrays and classes. (29.7 Lec. Hrs. / 19.8 Lab Hrs.)

COURSE DESCRIPTIONS

CIS:140 Introduction to Game Design   3.0 cr.
This course introduces game design theory, history of gaming, types of games, gaming platforms, major game components, and the gaming industry. Students will participate in designing games and develop prototypes using a variety of software tools. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:073 and RDG:032 or RDG:033; or minimum math and reading placement scores based on college assessment.

CIS:148 3D Modeling and Character Animation   3.0 cr.
This course gives students a hands-on, example-based introduction to the modeling and animation used in creating three dimensional (3D) games and simulations. Students will use industry standard software such as Autodesk 3D STUDIO MAX, Autodesk MAYA, or other similar tools to develop 3D models and assets. Students are exposed to topics such as mesh modeling, rigging and skinning, character animation, texturing, and texture mapping.
(19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MAT:073

CIS:149 Advanced MS Access   3.0 cr.
This course will teach students to use MS-Access to create advanced forms and reports, to create and use macros, to implement Graphical User Interfaces (GUIs) and automation in a MS-Access database, to integrate MS-Access with other applications and to administer a MS-Access database and use SQL statements in MS-Access development environment.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:110

CIS:161 C++   3.0 cr.
This course is designed to give students a basic understanding of the C++ language. Topics covered include the Visual C++.NET environment, variables, calculations, loop structures, decision structures, arrays, functions, and function templates.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:073 and RDG:032 or RDG:033; or minimum math and reading placement scores based on college assessment.

CIS:164 Advanced C++   3.0 cr.
This course is designed to give students a basic understanding of the C++ language. Topics covered include the Visual C++ environment, controls, properties, events, ActiveX controls, menus, dialog boxes, SDI applications, MDI applications, file access, and classes. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:161

CIS:169 C#   3.0 cr.
This course is designed to introduce the student to the C# Language. The course will cover C# basics and object-oriented programming techniques in the .NET environment.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:121, MAT:063

CIS:170 Java   2.0 cr.
This course is designed for a beginning programming course. The course covers Java classes, methods, and objects, decisions, looping, strings and string buffer, arrays, applets and graphics. (29.7 Lec. Hrs. / 19.8 Lab Hrs.)

CIS:171 Java   3.0 cr.
This course provides an introduction to Object Oriented Programming. Students will learn how to create classes, objects, and applications using the Java language. Topics also include the language fundamentals, the Java language API (Application Programming Interface API).
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:121

CIS:172 Java   4.0 cr.
This course introduces students to the Java programming language using its Object Oriented Programming features. Students learn how to use existing and create their own classes and objects and develop solutions to common real world-based problems using applications developed in Java. Students will also learn to create interactive elements and GUI elements. The use of the java.awt library components, event-handling model, containers and layout managers will also be emphasized. File handling techniques and multi-threading will be introduced and practiced, along with JavaBeans. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:121

CIS:185 Oracle Academy: Database Design   5.0 cr.
This course is the first in a two-course sequence of database design and development courses sponsored by Oracle. Students will identify business needs and create the database conceptual and physical models to meet those needs. Students who successfully complete the two course sequence will earn an Oracle Academy Certificate.
(59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: Consent of instructor

CIS:186 Oracle Academy: Database Development with SQL   5.0 cr.
This course is the second in a two-course sequence of the database design and development courses sponsored by Oracle. Students will extend their skills learned in CIS:185 by creating and implementing their database design using SQL, the industry standard database programming language. Students who successfully complete the two course sequence will earn an Oracle Academy Certificate. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: CIS:185, CIS:121

CIS:196 Oracle Database Programming with PL/SQL   5.0 cr.
This course will introduce student to Procedural Language/Structured Query Language (PL/SQL), Oracle's procedural extension language for SQL and the Oracle relational database. Students will explore the differences between SQL and PL/SQL, examine the characteristics of PL/SQL and learn how to use it to extend and automate SQL to administer the Oracle database. This course culminates with a project that challenges students to program, implement and demonstrate a database solution for a business or organization.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:186

CIS:210 Web Development I   3.0 cr.
Students will learn how to evaluate, design, construct and maintain web pages and websites. Topics include: HTML, SHTML, DHTML, graphics, animation, and FTP. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: RDG:032 or RDG:033; or minimum reading placement scores based on college assessment.

CIS:211 Web Development II   3.0 cr.
Students will learn how to evaluate, design, construct and maintain interactive Internet Web pages and Websites using Dynamic Hyper Text Markup Language (DHTML). Topics include: JavaScript, server-side and client-side programs, variables, arrays, control structures, form validation, object properties, methods and event handlers, multimedia via Java applets and ColdFusion.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:210

CIS:222 Games and Simulations I   3.0 cr.
This course covers the design and development of computer games and simulations on various platforms (Windows, Mac, Android, Tablet, etc.). The course also includes the design of user interface, animation and software development techniques. Students will use industry standard development tools. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

CIS:224 Server Side Scripting   4.0 cr.
This course will teach students to develop and implement web applications using server side scripting with emphasis on Hypertext Preprocessor (PHP). Additional server side scripting languages and technologies will be discussed. Students will gain hands-on experience while writing real world-based web applications from the ground up. Basic Structured Query Language (SQL) will also be learned as needed. Simple databases will be created for use with web application back-ends. Students will learn to access and modify their databases by building front-ends using server side scripting and embedded SQL. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:185 and CIS:210

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CIS:248 3D Modeling and Character Animation II **3.0 cr.**
This course is the second course in 3D modeling and animation and will give students a hands-on and example based introduction to modeling and animation process for use in 3D games. Students will use industry standard software to develop their models and will be exposed to topics such as mesh modeling, rigging and skinning, character animation, texturing, and texture mapping.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:148

CIS:251 Fundamentals of Web Design I **3.0 cr.**
Students will learn how to design websites focusing on the overall website production processes with particular emphasis on design elements involving layout, navigation, accessibility and interactivity. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:210

CIS:274 E–Commerce Design **3.0 cr.**
An overview of technologies relevant to electronic commerce, programming languages, security, databases and archiving, web authoring tools, multimedia, transaction processing, search engines, and data mining, topics include storefronts, web servers, web hosting, site development, transaction systems, security, order management and integration with supply chain technology. This course covers the design, development, and implementation and management of electronic commerce solutions.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

CIS:280 Client Side Scripting **3.0 cr.**
In this course students will make a survey of scripting languages and learn to use JavaScript client-side scripting language resources and techniques and Visual Basic Script language to create interactive websites, Web programming, data processing and application extension, including programming concepts as they apply to scripting. Course includes design and completion of small projects to illustrate the content learned and provide extensibility for future use.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:210

CIS:307 Introduction to Databases **3.0 cr.**
This course provides the student with an overview in database management systems. The student will learn about database fundamentals, database modeling, Structured Query Language (SQL), database administration and current issues. Through hands-on exercises, students will develop databases on different platforms.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: RDG:032 or RDG:033; or minimum reading score based on college assessment.

CIS:322 Games and Simulations II **3.0 cr.**
This course builds upon skills developed in Games and Simulations I and includes designing for test, software architecture design, object-oriented practices for game play, performance tuning, debugging, asset management, and coding best practices.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AVR:101 and CIS:248

CIS:331 Microsoft SQL Server **3.0 cr.**
This course will cover MS SQL Server structure and characteristics as well as Structured Query Language (SQL) commands from both console and user interface. While learning MS SQL Server commands, students will compare and contrast them to the American National Standards Institute (ANSI) SQL and apply both against the server. Students will use MS SQL Server in a client computer and in a Web server supported by Microsoft Active Server Page (ASP). (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:186

CIS:353 Database Models and Design Strategies **3.0 cr.**
This course will teach students to apply strategies and methodologies for database design, implementation and administration of local, remote and web-based database systems using industry and example-based studies and applications.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:185

CIS:450 PLTW – Computer Science Principles **3.0 cr.**
This course implements the College Board's CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. The course aligns with CSTA 3B standards. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: EGT:400

CIS:451 PLTW – Computer Science Applications **3.0 cr.**
This course focuses on further developing computational thinking skills through the medium of AndroidT App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, JavaT programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. The course curriculum is a College Board-approved implementation of AP CS A.
(19.8 Lec. Hrs. / 79.2 Lab Hrs.)

CIS:504 Structured Systems Analysis **3.0 cr.**
This course provides a broad yet specific treatment of the makeup, analysis, design, and implementation of systems projects with emphasis on learning how to analyze existing systems applications and design better ones for computer processing. Object-oriented design techniques and good communication skills will be emphasized.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: Complete at least two semsters of programming language courses or equivalent work experience.

CIS:606 Visual BASIC.NET I **3.0 cr.**
This hands-on course provides a strong foundation in essential aspects of Visual Basic.NET. It will include user interface design, logic development, and object-oriented programming techniques. Students will develop business applications for Windows and Web with multiple forms, arrays, and simple data access. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

CIS:607 Visual BASIC.NET II **3.0 cr.**
This course covers the use of ADO.NET and ASP.NET in creating multi-tier applications with database connections and Web based resources. Students will also write and consume Web Services, create User Controls, write HTML help files, and create sophisticated reports using Crystal Reports. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:606

CIS:608 Visual BASIC.NET III **3.0 cr.**
In this third course, students will develop a comprehensive, professional application. Good programming standards, object-oriented techniques, multi-tier approach, database connectivity, project management, deployment, evaluation, and maintenance will be emphasized. Students will explore trends in Visual Basic.NET as they participate in the developer's communities.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:607

CIS:624 .NET Development II **3.0 cr.**
Extends students' knowledge of Microsoft .NET and related tools. Emphasizes the use of SQL and ADO.NET for the creation of stand-alone and distributed database applications to solve common business problems. Covers issues related to n-tier design, network communications, error handling and the production of flexible database reports.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:169

CIS:626 .NET Development III **3.0 cr.**
Provides a practical introduction to Internet programming with Microsoft .NET. Emphasizes development of websites and web services with ASP.NET and related tools. Focuses on creating multi-tier business web applications. Includes basic ASP.NET web controls and script integration, along with server-side issues such as authentication, state management and database connectivity. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:624

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CIS:653 Operating System and User Software Support   **3.0 cr.**
This course will prepare the student to support end–user application. The foundational principles of end-user support including client operating system and application software, hardware and software installation, system configuration, problem diagnosis and resolution and computer security. The courses in the program provide an intensive, classroom–based, hands–on skills development. The demonstration of hands–on skills is critical to employers. Students completing the program are prepared for a variety of industry certification exams as well as entry–level employment technical interviews.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:305

CIS:704 UNIX/LINUX   **3.0 cr.**
This course is designed to give students a basic understanding of the UNIX operating system, commands, and system administrative duties required when administering a UNIX–based system. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:114, NET:303

CIS:711 Audio Programming for Games 3.0 cr.
In this course, students create sound effects and music for games. Topics include: composing dynamic music, 3D sound, real– time voice chat. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

CIS:750 Project Management   **3.0 cr.**
This course is designed to provide students exposure to project management and its importance to improving success in information technology projects. Topics addressed in the course will include triple constraints of project management, project life cycle, cost estimates, value management and motivation theory, and team building. Tools and techniques important to project management will also be presented, including project selection methods, work breakdowns, network diagrams, critical path analysis and scheduling. Students will have the opportunity to utilize software to help plan and manage an information technology project. (59.4 Lec. Hrs.)
Prerequisite: CIS:210, NET:167, or NET:612

CIS:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

CLS:121 Studies in Non–Western Culture   **3.0 cr.**
This course is an interdisciplinary humanities course that will introduce students to selected regions and countries of the designated region.

Regions are limited to East, South, Southeast and Southwest Asia; Africa; Oceania; the Caribbean Region; and Native American Cultures. Emphasis will be placed on cultural, historical and geographical perspectives and the arts, issues and events that help to define and shape that part of the world. (59.4 Lec. Hrs.)

CLS:150 Latin American History and Culture   **3.0 cr.**
This course is designed to introduce Latin America – a region encompassing Mexico, Central America, South America, and the Caribbean. Emphasizing Latin American geography, history, culture, and politics, the course explores the links between the region's complex past and present circumstances. Emphasis is placed on how Latin Americans view themselves and how their history and culture differ from those of the United States and Europe. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

CLS:200 International Study   **1.0 – 3.0 cr.**
This course provides students with the opportunity to pursue studies in such areas as history, art, politics, music, literature, foreign language, and occupational program areas.
(19.8 – 59.4 Lec. Hrs.)

CLS:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

CNS:105 Conservation   **2.0 cr.**
A study of the historical and biological basis for the conservation of natural resources with an emphasis on biodiversity and a survey of current problems and issues. (39.6 Lec. Hrs.)

CNS:109 Wildlife Ecology   **3.0 cr.**
Study of the application of wildlife ecology and management techniques, censuring, capture and marking of wildlife, habitat evaluation, habitat restoration, Iowa game laws, life history studies and the application of wildlife management principles as they relate to important ecological and recreational resources. (59.4 Lec. Hrs.)

CNS:131 Wildlife Habitat Management 2.0 cr.
Study of managing communities which provide habitat for wildlife. Primary emphasis is placed on manipulating vegetation to increase wildlife population. (39.6 Lec. Hrs.)

CNS:132 Wildlife Management   **2.0 cr.**

Study of the application of wildlife management techniques, censuring, capture and marking of wildlife, habitat evaluation, Iowa gaming laws, life history studies, and the application of wildlife management principles as they relate to important recreational resources. (39.6 Lec. Hrs.)
Prerequisite: BIO:114, BIO:133

CNS:137 Fisheries Management   **2.0 cr.**
Study of the application of fish management principles. Topics include fish identification, population estimation techniques, age and growth studies, watershed evaluation and management, fish life history features, and fish hatchery procedures. (39.6 Lec. Hrs.)

CNS:150 Occupations in Conservation   1.0 cr.
Orientation to the careers/career opportunities in conservation and ecology. (19.8 Lec. Hrs.)

CNS:901 Wilderness Experience   **2.0 cr.**
Designed to provide the student with a ''living laboratory'' experience in a natural wilderness area to study biology, ecology, geology, and related environmental conservation problems. The student will develop an appreciation of the wilderness environment and gain some basic skills of canoeing, water safety, camping, fishing, wilderness survival, map reading, and the use of a compass. Additional fees may be charged. (79.2 Lab Hrs.)

CNS:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 –118.8 Lab hrs).

CNS:930 Employment Experience   **2.0 cr.**
Provides on–the–job training in the student's chosen area. (158.4 Co-op Hrs.)

COM:102 Communication Skills   **3.0 cr.**
The purpose of this course is to prepare the student to communicate effectively in business and professional situations. The major emphasis is on improving interpersonal skills, on using standard English in writing and speaking, on gaining proficiency in listening, and on composing specific types of business communication. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

COM:140 Introduction to Mass Media   3.0 cr.
Introductory course examining the history, evolution, and relationships of the media in and their effects on our society. Course includes both the print and electronic media as well as ethics, advertising and public relations. Recommended for students majoring in communication, journalism,

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or U.S. culture. (59.4 Lec. Hrs.)

COM:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

COM:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

**CON:170 Building Construction
Techniques I**   **6.0 cr.**
Building Construction Technique I provides practical application of selected construction techniques. Students learn construction techniques in preparation of flat concrete work as well as fundamentals of block laying and brick laying techniques as they relate to basic construction. OSHA training, plumbing, framing, HVAC, roof sheathing and shingling will also be learned techniques. (39.6 Lec. Hrs. / 158.4 Lab Hrs.)

**CON:171 Building Construction
Techniques II**   **6.0 cr.**
Building Construction Techniques II provides practical application of selected construction techniques. Students learn construction techniques in floor, wall and ceiling systems, stair construction and interior finishing skills.
(39.6 Lec. Hrs. / 158.4 Lab Hrs.)
Prerequisite: CON:170

**CON:175 Residential Construction
Applications**   **6.0 cr.**
Students will apply advanced construction procedures on decks, walls, roofs, stairwells, and related structures. Durable design and application of proven methods will be emphasized, with the goal of building a house. The course relates to sustainable building practices.
(39.6 Lec. Hrs. / 158.4 Lab Hrs.)

**CRJ:100 Introduction to Criminal
Justice**   **3.0 cr.**
An introduction to the Criminal Justice system: police, courts, corrections, the role of the Criminal Justice system in society and recommendations for reform. Discussion will include career opportunities. (59.4 Lec. Hrs.)

CRJ:118 Law Enforcement   **3.0 cr.**

This is a survey course about the historical development of law enforcement, the functions of local, state and federal law enforcement agencies, police subculture, the function of patrol and other issues important to the field of policing. The use of police authority, police discretion, police violence, and police corruption will be introduced. (59.4 Lec. Hrs.)

CRJ:120 Introduction to Corrections   **3.0 cr.**
The development of corrections, the correctional process, correctional client, alternatives to incarceration, effects of institutionalization, correctional administration and future of corrections.
(59.4 Lec. Hrs.)

CRJ:130 Criminal Law   **3.0 cr.**
A study of the substantive criminal law, its historical background and development, the basic elements of criminal law, including criminal intent and criminal capacity. (59.4 Lec. Hrs.)

CRJ:138 Administration of Justice   **3.0 cr.**
A study of the administration of Criminal Justice.
(59.4 Lec. Hrs.)

CRJ:141 Criminal Investigation   **3.0 cr.**
An introduction to the art of criminal investigation and case preparation. Topics include interrogation, gathering information and evidence, informants, homicide investigation, and fingerprinting and other selected evidence. (59.4 Lec. Hrs.)

CRJ:142 Criminalistics   **3.0 cr.**
Fundamentals of investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow up, and case preparation.
(59.4 Lec. Hrs.)

CRJ:200 Criminology   **3.0 cr.**
The study of human behavior and crime, the development of corrections and criminology with sociological and cultural approaches to crime and the career criminal. (Same as SOC:240.)
(59.4 Lec. Hrs.)

CRJ:201 Juvenile Delinquency   **3.0 cr.**
Introduces the causes of delinquency and the modification of such behavior by corrective institutions and individual therapy. Emphasis is placed on the study of the development of individual personality through inter-family relationships, antisocial aggressive acts from early abnormal family and social situations. (Same as SOC:230.)
(59.4 Lec. Hrs.)

**CRJ:208 Introduction to Private
Security**   **3.0 cr.**
This course will consider history, principles, and management of private security. Topics will include physical security, procedural security, personal protection, fire prevention, and the prevention of losses due to natural and man-made disasters as applied in industrial, retail, and institutional settings. (59.4 Lec. Hrs.)

CRJ:209 Vice and Drug Control   **3.0 cr.**
Vice and Drug Control examines the controversial topic of vice and vicious activities (drugs, prostitution and gambling); the reasons why society attempts to control it; and the means by which control is gained. Individual elements of vicious activity, control methods, related criminological concepts and theories are defined and examined from historical, contemporary and futuristic perspectives through objective, subjective and critical frames of reference. Success of current vice control efforts and enforcement methods are investigated and alternative policies considered.
(59.4 Lec. Hrs.)
Prerequisite: CRJ:100

CRJ:230 Evidence   **3.0 cr.**
This course traces the nature and development of evidence law and its role in the criminal justice system. The student will be introduced to concepts such as direct and circumstantial evidence, relevancy, hearsay, character evidence and the various privileges that exist in evidence law. In addition, the student will learn how to present evidence in a courtroom both from a lawyer's examination and a witness' testimony.
(59.4 Lec. Hrs.)

**CRJ:256 Law Enforcement Physical
Conditioning**   **2.0 – 4.0 cr.**
This course in law enforcement physical training will prepare a student for entry-level positions in law enforcement, corrections, and other criminal justice employment. Included in the activities will be stretching, weight training, lifting, running, self defense, and other physical skills training.
(19.8 – 39.6 Lec. Hrs. / 39.6 – 79.2 Lab Hrs.)

**CRJ:295 Contemporary Issues in
Criminal Justice**   **3.0 cr.**
Devoted to exploration and analysis of contemporary issues in criminal justice. Class discussions, lectures, and readings in conjunction with an individual research paper. Guest speakers and field trips when appropriate. (59.4 Lec. Hrs.)

CRJ:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)

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Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

CRJ:924 Honors Project   1.0 cr.
This course is designed to integrate academic study and community service. By volunteering at least 33 hours at a non-profit, service organization, students will have an opportunity to exercise civic responsibility and deepen their understanding of the content in their majors. Students will learn and develop through active participation in organized service experiences that meet our community's needs. (39.6 Lab Hrs.)

CRJ:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

CRJ:941 Practicum   3.0 – 4.0 cr.
Practicum is intended to provide hands-on learning and experience relating theory to practice. Students undertake up to 99 hours of work and observation in settings that meet individual career and academic goals. The college approves sites and faculty members oversee the practicum. Academic assignments accompany the hands-on learning experience. (118.8 - 158.4 Lab Hrs.)
Prerequisite: Minimum Grade Point Average of 2.0 and permission of faculty member, Department Coordinator, and Dean.

CRR:103 Survey of Auto Collision Repair   1.5 cr.
This course is designed to introduce the student to a variety of tasks and skills commonly used in the automotive collision repair field. Topics to be explored include detailing, metal finishing, panel alignment, and refinishing. (89.1 Lab Hrs.)

CRR:113 Welding Survey   2.0 cr.
This course is designed to acquaint the student with the fundamentals of Gas Metal Arc Welding (GMAW), Oxy-Acetylene and Plasma Cutting Processes, as it pertains to the Auto Collision Repair industry. Instruction will be given in equipment, setup, safety, and application in the Oxy-Acetylene and GMAW processes with an emphasis on safety. The lab will be correlated with the lecture to provide the student with practical hands-on experience.
(19.8 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: CRR:140
Corequisite: CRR:322

CRR:114 Welding Systems and Techniques   2.0 cr.
This course is designed to increase the students'
proficiency with the basic welding concepts and to further their knowledge and skills of other welding processes used in Auto Collision Repair. Topics covered include Squeeze Type Resistance Spot Welding (STRSW), Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), Plasma Arc Cutting (PAC) and the equipment used for these operations. (19.8 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: CRR:113

CRR:115 Advanced Welding Techniques 1.0 cr.
This is a lab course designed to enhance the students' skills with all of the welding concepts typically used in the Collision Repair Industry. It will include all welding processes used on steel, aluminum and other metallic parts typically encountered on the automobile. Joint design and fabrication will be covered to prepare the student for applicable qualification tests. (59.4 Lab Hrs.)
Prerequisite: CRR:113

CRR:140 Orientation and Safety   3.0 cr.
This is an orientation and safety course for Auto Collision Repair. Students will be oriented to the college and department procedures, policies, and expectations pertaining to safety expectations in all areas of the shop and tool use. Topics include college and department expectations, functions and regulations, employee and community right-to-know, hazard communication and the laws and regulations governing the handling of hazardous materials and waste. (59.4 Lec. Hrs.)

CRR:200 Plastic Repair   1.0 cr.
This course is designed to acquaint the student with the methods and techniques used to identify and repair plastics commonly used on modern day vehicles. Major topics of instruction include plastics identification, adhesive repairs, plastic welding, and panel replacements. All types of plastics repair will be covered including thermoset and thermoplastic bumper repair, as well as sheet molded compounds (SMC), and fiber reinforced plastics (FRP).(59.4 Lab Hrs.)

CRR:322 Basic Metal Bumping and Repair   5.0 cr.
This course is designed to acquaint the student with the tools, equipment and techniques utilized in repairing minor collision damage. Emphasis will be placed on damage identification and analysis, and formulating an appropriate repair plan.
(59.4 Lec. Hrs. / 118.8 Lab Hrs.)

CRR:405 Nonstructural Panel Repair and Replacement   5.0 cr.
This course will provide training in the repair and replacement of metallic and composite non-structural components and stationary panels. Topics covered in the course include pre-replacement
roughing and aligning, force application analysis, glass service and replacement, and the alignment of all adjustable panels.
(59.4 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: CRR:113, CRR:322

CRR:452 Trim and Component Panel Service   2.0 cr.
This course will address all facets of interior and exterior trim and component panel service. Topics such as removal, replacement, and alignment techniques will be covered in-depth. The course will also include final detailing the interior and exterior of repaired vehicles.
(19.8 Lec. Hrs. / 59.4 Lab Hrs.)

CRR:507 Structural Panel Repair and Replacement   5.0 cr.
This course is designed to provide the student with the skills necessary to repair the undercarriage on vehicles which have sustained structural damages. It will include an in-depth study of manual measuring and computerized measuring systems commonly used to analyze, isolate, and repair damage to the undercarriage and other structural parts of collision-damaged vehicles. Replacement and corrosion protection of parts will also be included as part of the repairs.
(59.4 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: CRR:114, CRR:405

CRR:605 Mechanical Service   3.0 cr.
This course is designed to help the student identify and repair the mechanical problems and failures that typically occur as a result of an automobile accident. The course will include diagnosing and repairing problems with the brake system, drive train, exhaust system and other mechanical components typically damaged in a collision situation. The course will also include instruction diagnosing and repairing problems with the vehicle's air conditioning system and the regulations governing the handling and use of chlorofluorocarbon (CFC) gases. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)

CRR:612 Steering/Suspension   3.0 cr.
This course is designed to acquaint the student with the suspension and steering systems, and how they are affected by a collision. It will include instruction in the diagnosis and repair of problems affecting the drivability of a vehicle after it has been involved in a collision. It also includes a study of the steering geometry, alignment principles, tracking and replacement procedures for damaged components. The interrelation of each part to the overall handling of the vehicle are all included.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)

CRR:674 Electrical Service   4.0 cr.
This course will acquaint the student with the methods utilized to diagnose and troubleshoot electrical problems that affect the operation of

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various electrically integrated parts of the vehicle. It will include energy production, electrical theory, interpreting wiring diagrams, electrical measuring and testing equipment as they are used in the repair of damaged passive & active restraint systems, air bags, anti-lock braking systems and other electrical problems which typically occur as a result of a collision.
(59.4 Lec. Hrs. / 59.4 Lab Hrs.)

CRR:743 Estimating   3.0 cr.
This course is designed to acquaint the student with the methods and techniques used to analyze and identify the damage sustained by a vehicle involved in a collision. It will also include an in-depth study of the collision manuals and computerized estimating systems typically used in writing an automobile damage report. (59.4 Lec. Hrs.)

CRR:799 Spray Techniques and Surface Coatings II   1.0 cr.
This course is designed for the experienced painters seeking to upgrade their skills and become more proficient with the mechanics of the spray gun and application techniques. The course will provide the student with a more in-depth analysis of the principles and concepts utilized for applying various automotive, commercial and industrial surface coatings using both the virtual painting system and conventional spray painting equipment. Emphasis will be placed on proper equipment selection, setup, manipulation and maintenance. (59.4 Lab Hrs.)

CRR:801 Refinishing I   3.0 cr.
This is an introductory course designed to acquaint the student with all phases of surface removal and the preparation required for application of fillers, paint, and primer coatings. Proper substrate preparation and basecoat application will be emphasized. Other topics will include pre-cleaning, surface removal, abrasives, fillers, basecoat selection, masking, and proper spray application.
(19.8 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: CRR:140

CRR:825 Refinishing Principles   5.0 cr.
This course will provide students with an in-depth view of the color-matching and tinting process used to achieve acceptable paint matches for collision repair work. In addition students will also learn about the common paint defects, causes, and corrections. (59.4 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: CRR:801

CRR:842 Color Matching   5.0 cr.
This course is an in-depth study of color, its make-up and the proper techniques utilized for tinting and shading paint to accomplish a color match on a vehicle. Spot repairing and blending techniques to obtain a color match on single-stage, two-stage, and three-stage finishes will be included. The students will also be trained and evaluated using the Spray Technique Analysis and Research (STAR)

criteria. (39.6 Lec. Hrs. / 178.2 Lab Hrs.)
Prerequisite: CRR:825

CRR:878 Advanced Refinishing Techniques   2.0 cr.
This is the last in a series of refinishing courses, which is designed to acquaint the student with diagnosing and repairing various paint problems and failures and repairing them using a systems approach. An in-depth study and comparative analysis will be conducted of various paint manufacturers' products and how they are to be used in resolving the various paint failures. A VOC analysis will be completed for several of the products used.
(19.8 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: CRR:842

CRR:908 Cooperative Education   3.0 cr.
This course is a cooperative education experience that integrates classroom theory with on-the-job training. The college will assist the student in securing employment related to the student's major field of study and/or career interests. Under the supervision of the college and the employer, the student will participate in job training experiences. Student eligibility consists of the successful completion of 12 credit hours with EICC with at least two courses in the chosen major and maintenance of a grade point average of 2.0 or higher. Eligibility requirements and credit hours available vary by program area. (237.6 Co-op Hrs.)
Prerequisite: Consent of instructor

CSC:107 Computer Literacy   3.0 cr.
This course introduces students to personal computer concepts and the basics of using computer applications. Students gain knowledge and skills using Microsoft operating systems and applications including word processing, spreadsheet and presentation software. Students also gain experience using the Internet and email. Conducting research and creating appropriate citations will be emphasized. (59.4 Lec. Hrs.)
This course satisfies a general education requirement for Computer Skills.

CSC:110 Introduction to Computers   3.0 cr.
An introduction to computers including operating systems, word processing, spreadsheets/worksheets, database, presentation programs, email, the internet, and certain related computer

concepts. It will include student computer projects. (59.4 Lec. Hrs.)
This course satisfies a general education requirement for Computer Skills.

CSC:112 Computer Fundamentals for Technicians I/A   2.0 cr.
CSC-112 is a basic computer class developed around the Windows operating system and Microsoft Office Suite of software. Specifically, Word and Excel. Students will learn to use Windows Explorer to create folders and manage files. Students will also use Word to create documents containing graphics and bulleted lists as well as use styles and themes to add character to documents. Word will also be used to create research documents based on the MLA style of writing documentation. Using Excel students will create spreadsheets containing formulas and graphs or charts. Spreadsheet formatting is also covered. During this learning process students will be required to access the Internet to navigate web pages and download files needed for assignments. These files will be extracted to folders created on flash drives or other storage devices. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

CSC:113 Computer Fundamentals for Technicians I/B   2.0 cr.
This course is a basic computer class developed to follow CSC-112, Computer Fundamentals for Technicians I/A. Developed around the Windows operating system and Microsoft Office 2013, the emphasis of this course will be the use of Microsoft Access and PowerPoint. Knowledge and skills gained from CSC-112 will be put to practice and students will use Microsoft Access to create and edit database information. Students will use Access (Database Management System) to create databases as well as add, change, or delete data. Queries, questions, and forms will also be created. PowerPoint will also be used allowing to students to learn to create powerful and dynamic professional presentations.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:112

CSC:450 PLTW – Computer Science and Software Engineering   3.0 cr.
CSE implements the College Board's CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization

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of data, cybersecurity, and simulation. The course aligns with CSTA 3B standards.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: EGR:400

CSC:451 PLTW – Computer Science Applications   3.0 cr.
This course focuses on further developing computational thinking skills through the medium of AndroidT App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, JavaT programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. The course curriculum is a College Board-approved implementation of AP CS A.
(19.8 Lec. Hrs. / 79.2 Lab Hrs.)

CSC:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

CSP:110 Infection Control and Health Regulations   2.0 cr.
This course introduces basic patient care skills of infection control techniques such as hand washing. Additionally the course provides an overview of the health industry as it relates to health and safety regulations based on Occupational Safety and Health Administration (OSHA) and Center for Disease Control (CDC) guidelines. (39.6 Lec. Hrs.)

DEA:110 Dental Health Education   2.0 cr.
This course covers the study of preventative dentistry to prepare dental assisting students for the role of dental health educator. Topics include etiology of dental diseases, preventative procedures, and patient education theory and practice. Upon completion, students should be able to demonstrate proficiency in patient counseling and oral health instruction in private practice or public health settings. (39.6 Lec. Hrs.)
Prerequisite: DEA:506

DEA:251 Dental Science   2.0 cr.
This course is a study of oral pathology, pharmacology, and dental office emergencies. Topics include oral pathological conditions, dental therapeutics, and management of emergency situations. Upon completion, students should be able to recognize abnormal oral conditions, identify classifications, actions and effects of commonly prescribed drugs, and respond to medical emergencies. (39.6 Lec. Hrs.)

DEA:256 Dental Anatomy   2.0 cr.
This course provides students with a study of head, neck, and dental anatomy for application in dental assisting courses. (39.6 Lec. Hrs.)

DEA:293 Microbiology and Infection Control   2.0 cr.
This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. Upon completion, students student be able to understand infectious diseases, disease transmission, infection control procedures, bio-hazard management, OSHA standards, and applicable Iowa laws. (39.6 Lec. Hrs.)

DEA:297 Ethics/Jurisprudence Seminar   1.0 cr.
Includes the study of the ethics and legal responsibilities of the dental profession as well as the functions and jurisprudence of the auxiliary personnel. (19.8 Lec. Hrs.)
Prerequisite: DEA:507

DEA:302 Dental Radiography   3.0 cr
This course provides a comprehensive view of the principles and procedures of radiography as they apply to dentistry. Topics include technics in exposing, processing, and evaluation of radiographs as well as radiation safety, quality assurance, and quality issues. Upon completing this course the student will be able to demonstrate proficiency in the production of diagnostically acceptable radiographs using appropriate safety precautions.
(59.4 Lec. Hrs.)

DEA:403 Dental Materials   3.0 cr.
This course will emphasize the physical properties, manipulation and application of dental materials used in dentistry. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)

DEA:506 Principles of Dental Assisting   5.0 cr.
This course provides instruction in procedures for the clinical dental assistant as specified by the Iowa Dental Practice Act. Emphasis is placed on orientation to the profession, infection control techniques, instruments, related expanded functions, and diagnostic, operative, and specialty procedures. (49.5 Lec. Hrs. / 99.0 Lab Hrs.)

DEA:575 Dental Assisting Clinic I   6.0 cr.
This course is designed to provide experience assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to utilize classroom theory, laboratory, and clinical skills in a dental setting.
(356.4 Clinical Hrs.)
Prerequisite: DEA:615

DEA:577 Dental Assisting Clinic II   4.0 cr.
This course is designed to provide experience assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. (237.6 Clinical Hrs.)

DEA:607 Dental Specialties   3.0 cr.
This course covers the dental specialties of endodontics, periodontics, pediatric dentistry, oral surgery, orthodontics, fixed prosthodontics, and removable prosthodontics. (59.4 Lec. Hrs.)

DEA:701 Dental Office Procedures   1.0 cr.
This course provides a study of principles and procedures related to management of the dental practice. Emphasis is placed on maintaining clinical and financial records, patient scheduling, and supply and inventory control. Upon completion, students should be able to demonstrate fundamental skills in dental practice management.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: DEA:256

DEA:810 RDA Expanded Functions I   2.0 cr.
This course provides theoretical concepts and skills to expand the dental assistant's scope of practice to include occlusal registration, gingival retraction, final impression, and provisional restorations. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: Certified by the Dental Assistant National Board or possess two years documented clinical Iowa registered dental assisting experience and complete a written assessment at 75% competency.

DEA:820 RDA Expanded Functions II   1.0 cr.
This course provides theoretical concepts and skills to expand the dental assistant's scope of practice to include application of cavity liners, desensitizing agents, bonding systems, placement and removal of dry socket medication, placement of periodontal dressing, and testing pulp vitality.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: Certified by the Dental Assistant National Board or possess two years documented clinical Iowa registered dental assisting experience and complete a written assessment at 75% competency.

DEA:830 RDA Nitrous Oxide Monitoring   1.0 cr.
This course is designed to provide theoretical concepts and skills to expand the dental assistant's scope of practice to include monitoring of nitrous oxide inhalation analgesia.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)

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Prerequisite: Certified by the Dental Assistant National Board or possess two years documented clinical Iowa registered dental assisting experience and complete a written assessment at 75% competency.

DRA:101 Introduction to Theatre   3.0 cr.
This course is a survey of the elements of theatre. The course covers units on audience/performer relationships, dramatic forms, dramatic literature, history of the theatre, dramatic theory and criticism, and technical theatre. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.

DRA:103 Children's Puppet Theatre   3.0 cr.
An exploration into all elements of theater with emphasis on the audience as receptive and perceptive participants. This will be accomplished through the development and performance of a puppet theatre show. (59.4 Lec. Hrs.)

DRA:110 Introduction to Film   3.0 cr.
Designed to introduce the student to the history, evolution, philosophic, artistic and economic aspects of motion pictures and the filmmaking industry. Students will have the opportunity to examine the various genres of the movie industry – drama, film noir, western, fantasy, documentary, romantic comedy, horror, musicals, silent film, etc. Utilizing film excerpts and entire movies as tools, students will hone skills in film analysis, beginning with recognition of theme and critically viewing productions in terms of such elements as: fictional elements, editing, cinematography, visual design, photography, special effects, sound, acting, music and directing. Progressively, students will observe similarities and distinctions in film and literature and relate philosophical, historical and cultural theories and events to the industry. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area. May be counted as either Humanities or Fine Arts, but not both.

DRA:117 Film Topics   3.0 cr.
This course offers an in-depth study of various topics in film studies. The purpose of the course is to provide understanding of how film and society interact through in-depth analysis of one significant area of film study. Topics offered and studied can include genre theory and specific genres (horror, science fiction, social drama, etc.), film adaptation of particular forms of literature, moral themes regularly present in film, documentary film, eras in film, etc. Whatever the area focused on for critical analysis, all film topics will study the relationship between the topic and culture producing the films, will identify operating principles and relevant contextual forces, and will apply these concepts to the study of specific films. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

DRA:130 Acting I   3.0 cr.
A fundamental course in the physical, vocal and imaginative techniques in the art of acting. Final project will be performance of a scene in a recital.

(59.4 Lec. Hrs.)

DRA:131 Acting II   2.0 cr.
A continuation of Acting I, students will further explore the techniques in the art of acting with special emphasis on movement and dramatic interpretation. For DRA:132 the student will publicly perform a monologue or finished scene from a play as a final project. (39.6 Lec. Hrs.)
Prerequisite: DRA:130 or consent of instructor

DRA:132 Acting II   3.0 cr.
A continuation of Acting I, students will further explore the techniques in the art of acting with special emphasis on movement and dramatic interpretation. For DRA:132 the student will publicly perform a monologue or finished scene from a play as a final project. (59.4 Lec. Hrs.)
Prerequisite: DRA:130 or consent of instructor

DRA:136 Rehearsal and Performance   2.0 cr.
Preparation for participation in a major play production. Late registration permitted. May be repeated up to a total of 4 credit hours. (79.2 Lab Hrs.)

DRA:137 Rehearsal and Performance   3.0 cr.
Preparation for participation in a major play production. Late registration permitted. May be repeated up to a total of 4 credit hours. (118.8 Lab Hrs.)

DRA:172 Technical Theatre Lab   1.0 cr.
Through this course students gain practical experience in all aspects of technical theatre while working on college productions. May be repeated up to eight credits. (19.8 Lec. Hrs.)

DRA:173 Technical Theatre Lab   2.0 cr.
Through this course students gain practical experience in all aspects of technical theatre while working on college productions. May be repeated up to eight credits. (39.6 Lec Hrs.)

DRA:237 Acting Lessons   1.0 cr.
This course provides concentrated private coaching for the advanced acting student to strengthen and broaden their skills as an all-around performer. May be repeated up to three credits. (19.8 Lec. Hrs.)

DRA:250 Directing   3.0 cr.
Designed to assist the student with practical experience in analyzing the audiences to be reached, planning the season and preparing the play. Class projects include directing experience and the preparation of production books. (59.4 Lec. Hrs.)

DRA:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related

to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

DRA:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs.)
Prerequisite: Complete 6 credits (at the 100 level or above) in the discipline.

DRF:131 Basic Drafting and Design I   3.0 cr.
This is the first of a two course sequence covering the fundamentals and foundations of drafting and design. This course will develop student skills in the areas of sketching techniques and lettering as well as the use of drafting instruments. Major units of instruction will include sketching applications, lines and lettering, drafting geometry, and multiviews. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Corequisite: CAD:286 or consent of instructor

DRF:132 Basic Drafting and Design II   3.0 cr.
This is the second of a two course sequence covering the fundamentals and foundations of drafting and design. This course will develop student skills in the areas of sketching techniques and lettering, as well as the use of drafting instruments. Major units of instruction will include auxiliary views, dimensioning and tolerancing, fasteners and springs, and sections. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: DRF:131

DRF:161 Descriptive Geometry   3.0 cr.
This course will introduce students to the basic principles of Descriptive Geometry. These principles are valuable for determining true shapes of planes, angles between two lines, angles between two planes, or the angle between a line and a plane. Problems are solved graphically by projecting points onto selected adjacent projection planes in an imaginary projection system. Major areas of concentration will be points and lines in space, auxiliary views, lines, line characteristics, planes, and plane relationships.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: DRF:132

DRF:331 Mechanical Drafting and Design I   3.0 cr.
This is the first of a two-course sequence covering advanced topics in the areas of drafting and design. Students will get hands-on experience over the topics covered in this course utilizing practical exercises. The major unit of instruction covered will be to create full sets of working drawings,

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which include detail drawings, assembly drawings, and parts lists. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: DRF:132

DRF:332 Mechanical Drafting and Design II   3.0 cr.
This is the second of a two-course sequence covering advanced topics in the areas of drafting and design. Students will get hands-on experience over the topics covered in this course utilizing practical exercises. The major units of instruction covered will be mechanisms, belt and chain drives, and welding processes.
(29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: DRF:331

DSL:103 Survey of Diesel Technology   1.5 cr.
This course is designed to introduce the student to a variety of tasks and skills commonly used in the diesel technology repair field. Diesel engine repair and maintenance, as well as automatic transmission operation and service will be discussed and practiced. (59.4 Lab Hrs.)

DSL:151 Truck Electrical Systems   2.0 cr.
This course deals specifically with truck electrical systems. Students will gain the knowledge and competencies needed to diagnose, and repair electrical systems and accessory circuits on today's trucks. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: AUT:115, AUT:614

DSL:201 Basic Gas Engine Performance   2.0 cr.
This course introduces students to the basic ignition and fuel systems. Basic ignition system theory, operation and diagnosis will be covered along with basic fuel system theory and operation diagnosis. Lab time will be used to learn the use of diagnostic equipment in troubleshooting and repair of ignition and fuel systems.
(19.8 Lec. Hrs. / 59.4 Lab Hrs.)

DSL:340 Diesel Engine Repair   5.0 cr.
Acquaints the student with the modern diesel engine used in transportation and automotive industries. The course is divided into five sections. In each section operation, overhaul and adjustments will be thoroughly covered for the diesel engine used in the transportation and the automotive diesel engine industry. Labs correlate with lectures to provide the student with practical hands-on experiences. (59.4 Lec. Hrs. / 118.8 Lab Hrs.)

DSL:435 Diesel Fuel Systems I   3.0 cr.
This course acquaints the student with diesel fuel characteristics, fuel subsystems, overview of diesel fuel injection basics, and injector nozzles.
(59.4 Lec. Hrs.)
Prerequisite: AUT:115, AUT:614

DSL:437 Diesel Fuel Systems II   4.0 cr.
This course acquaints the student with operation testing and adjustments required to troubleshoot and repair diesel fuel systems. The course is bro-

ken down into different modules and includes: (A) Caterpillar Mechanical and Electronic Fuel Systems (B) Detroit Diesel Mechanical and Electronic Fuel System; (C) Cummins Manual Electronic Fuel Systems; (D) Roosa Mechanical Fuel Pumps (E) Robert Bosch VE Fuel Pumps (F) Mack and Volvo Fuel Systems (G) Common Rail and (H) Emissions.
(59.4 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: DSL:435

DSL:505 Heavy Duty Drive Train I   3.0 cr.
This course covers the theory and operation of heavy-duty drive trains. Students will gain competencies in removal, installation and repair of clutches, heavy-duty manual transmission. Safety procedures will be stressed as will as basic maintenance and adjustment procedures.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:115, MAT:104

DSL:507 Heavy Duty Drive Train II   3.0 cr.
This course covers the theory of drive trains and axles. Students will gain competencies in removal, installation, repair, and adjustment of drive shafts, power dividers, differentials and axles. Safety procedures will be stressed as well as basic maintenance and adjustment procedures.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: DSL:505

DSL:519 Automatic Drive Train   4.0 cr.
This course acquaints the student with the major components and operation of automatic transmissions. This course includes the functions and operation of truck transmissions, the functions and operations of the hydraulic system, lock-up type torque converter, and disassemble, rebuild and assembly procedures. Labs correlate with lectures to provide the student with practical hands-on experiences. (39.6 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: AUT:115

DSL:603 Hydraulics   2.0 cr.
This course will acquaint the student with basic hydraulic operation, pumps and cylinder controls. This course will acquaint the student with troubleshooting of hydraulic systems. (39.6 Lec. Hrs.)
Prerequisite: MAT:104

DSL:625 Heavy Duty Alignment   3.0 cr.
This course goes into theory and procedures of front and rear alignment. It will include automotive through heavy-duty applications. Lab time will be on testing and setting according to service procedures. Also included will be basic truck driving to provide students experience in moving trucks and trailers into the shop area.
(39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:115

DSL:629 Heavy Duty Brakes and Service   3.0 cr.
Acquaints the student with the principles of diagnosising and repairing truck brake systems. Included will be a study of hydraulic brake systems, air brake systems, brake components, brake adjustments as they pertain to heavy duty brake

systems and preventative maintenance on brake systems as per NATEF. Labs correlate with lectures to provide the student with practical hands-on experiences. (39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: AUT:115

DSL:710 Heating, Air Conditioning and Refrigeration   4.0 cr.
This course is designed for the student to gain a basic understanding and working knowledge of truck and automobile heating and air conditioning systems as well as trailer refrigeration units. Students will gain entry level competencies in the diagnosis and repair of common problems in these systems. (59.4 Lec. Hrs. / 59.4 Lab Hrs.)

DSL:815 Preventative Maintenance   1.0 cr.
Students will learn how to perform prevention maintenance (P.M.) inspection of the cab, electric and frame, and trailers.
(9.9 Lec. Hrs. / 29.7 Lab Hrs.)
Prerequisite: AUT:115, AUT:614

DSL:905 Cooperative Experience   2.0 cr.
Cooperative Experience will integrate classroom theory with on-the-job training. The College will assist the student in securing employment related to the student's major field of study and/or career interests. Under the supervision of the College and the employer, the student participates in job training experiences. In addition to employment, attendance at scheduled on-campus seminars is required. Seminars may include job searching skills as well as professional development. Student eligibility consists of the successful completion of 12 credit hours with EICCD with at least two courses in the chosen major and maintenance of a grade point average of 2.0 or higher. Eligibility requirements and credit hours available vary by program area. (158.4 Co-op Hrs.)
Prerequisite: Consent of instructor

ECE:103 Introduction to Early Childhood Education   3.0 cr.
This course gives students a historical and philosophical foundation of the field of early childhood education, includes an overview of assessment and trends that influence best practices, explores careers in the field and addresses influences of families and diversity. (59.4 Lec. Hrs.)
Prerequisite: ENG:013, and RDG:032 or RDG:033

ECE:133 Child Health, Safety, and Nutrition   3.0 cr.
Fouses on current concepts in the field of health, safety and nutrition and their relationship to the growth and development of the young child, ages birth to eight years. Blends current theory with practical applications and assessments. Includes the influences of families and diversity on health, safety and nutrition in early chidlhood settings.
(59.4 Lec. Hrs.)

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Prerequisite: ENG:013, and RDG:032 or RDG:033; or minimum English, math, and reading scores based on college assessment.

ECE:158 Early Childhood Curriculum I   3.0 cr.
Focuses on the development, implementation and assessment of appropriate environments and curricula for young children ages 3–8. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions and environments in the following areas: dramatic play, art, music, fine and gross motor play. (59.4 Lec. Hrs.)
Prerequisite: ENG:013, and RDG:032 or RDG:033

ECE:159 Early Childhood Curriculum II   3.0 cr.
Focuses on the development, implementation and assessment of appropriate environments and curricula for young children ages 3–8. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions and environments in the following areas: math, science, technology, language arts and social studies. (59.4 Lec. Hrs.)
Prerequisite: ECE:158

ECE:168 Science and Math Activities for Young Children   3.0 cr.
This course is designed for students in early childhood education. Curriculum is presented in a developmental sequence designed to support young children's construction of the concepts and skills essential to a fundamental understanding of math and science. (59.4 Lec. Hrs.)
Prerequisite: ECE:103, ECE:159

ECE:169 Art and Music Activities for Young Children   3.0 cr.
This course is designed to introduce students to a variety of media suitable for use with the young child. Emphasis will be placed on personal involvement in creative activities including creative movement, music, art and games that can be used with an integrated curriculum approach. (59.4 Lec. Hrs.)
Prerequisite: ECE:103, ECE:158, and ECE:159

ECE:170 Child Growth and Development   3.0 cr.
Reviews typical and atypical development of children from conception to adolescence in all developmental domains. Presents interactions between child, family and society within a variety of community and cultural contexts. Examines theories Associated with understanding children. (59.4 Lec. Hrs.)
Prerequisite: ENG:013, and RDG:032 or RDG:033

ECE:193 Dynamics of the Family   3.0 cr.
Explores the critical relationships of family members to one another and of the Child Care Associate to members of the family. Multicultural relationships will be explored as well as an introduction to the changing role and structure of families in modern society. (59.4 Lec. Hrs.)
Prerequisite: ECE:103

ECE:221 Infant/Toddler Care and Education   3.0 cr.
Focuses on care, education and assessment of children from birth to thirty-six months. Prepares students to utilize developmentally appropriate practices including responsive caregiving, routines as curriculum, importance of relationships with diverse families, and a focus on the whole child in inclusionary settings. (59.4 Lec. Hrs.)
Prerequisite: ECE:103, ECE:133, and ECE:193

ECE:243 Early Childhood Guidance   3.0 cr.
Focuses on effective approaches and positive guidance strategies for supporting the development of all children. Emphasizes supportive interactions and developmentally appropriate environments. Studies impact of family, and each child's culture, language and ability on child guidance.
Course Requisites (59.4 Lec. Hrs.)
Prerequisite: ENG:013, and RDG:032 or RDG:033; or minimum English, math, and reading scores based on college assessment.

ECE:290 Early Childhood Program Administration   3.0 cr.
Basic principles involved in setting up and administering an early childhood program. Emphasis placed on funding, enrollment procedures, curriculum planning, staff and parent relationships, problem solving and record keeping. State of Iowa day care center licensing standards and regulations are reviewed. (59.4 Lec. Hrs.)
Prerequisite: ECE:103, ECE:133, ECE:158, and ECE:193

ECE:920 Field Experience/ECE   1.0 – 3.0 cr.
Supervised experience in selected early childhood settings serving children ages birth-eight. Includes integration of theory, research and reflective practices. Provides an understanding of developmentally appropriate practices and the developmental stages of diverse populations of young children and their families. Emphasizes professional relationships and behavior, appropriate adult/child interactions, basic curriculum planning and program routines. **(**79.2 - 237.6 Co-op Hrs.)
Prerequisite: ECE:159, ECE:170 and ECE:243

ECN:110 Introduction to Economics   3.0 cr.
This course is a presentation of the basic economic problem of scarcity. It is a survey of micro-economics dealing with market behavior and macro-economics dealing with government stabilization policies in the U.S., including international trade. This course is not recommended for students who anticipate a Bachelor's degree requiring a two-term sequence in economics. (59.4 Lec. Hrs.)

ECN:120 Principles of Macroeconomics   3.0 cr.
This course discusses issues confronting society as a result of economic scarcity. It examines the systematic approach to these issues as it has developed in the U.S., where markets and government combine to determine the economic decision making process. Emphasis is placed on the fiscal and monetary policies of government, undertaken to modify the instability that occurs in the private sectors. Includes include the importance of international trade for U.S. well being. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Social Sciences Area.

ECN:130 Principles of Microeconomics   3.0 cr.
This course examines how the market system resolves the economic problems of scarcity. Topics explored are: supply and demand theory; the varying degrees of competition and imperfection found in the market; consumer choice; firm's production cost in the short run and the long run; and firm's output and the pricing and employment of resources. The impact of international trade and finance will also be discussed. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Social Sciences Area.

ECN:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

ECN:943 Readings   1.0 – 2.0 cr.
Designed to provide the student with additional readings in Economics, allowing the student to obtain a greater understanding of the various problem areas of this disciple. (Arranged) (39.6 - 79.2 Lab Hrs.)
Prerequisite: ECN:120 or ECN:130

EDU:110 Exploring Teaching   3.0 cr.
Designed to provide guided observation and teacher-aide services in school classrooms. Emphasis is placed on the education theory taught in other teacher-training subjects. Local school systems provide a learning experience for the prospective student. Students qualifying for the program will be assigned to selected elementary, middle, and secondary schools for practical classroom experience. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Corequisite: EDU:212

COURSE DESCRIPTIONS

EDU:125 Making a Difference   **3.0 cr.**
The emphasis of this course is introducing the student to the careers related to education, particularly teacher and para-educator as professionals. The course includes: human and legal rights of children with disabilities; introduction to human development; introduction to the classroom instruction process; discussion of instructional interventions as well as teaching strategies; and health and safety procedures in the classroom. (59.4 Lec. Hrs.)

EDU:150 Directed Observation   **1.0 cr.**
The course will involve directed observation, which will be structured through journal articles and INTASC Standards. Students will observe in a pre-school, elementary or secondary classroom for 40 hours. The class will meet weekly to debrief and discuss observational experiences. (19.8 Lec. Hrs.)

EDU:212 Educational Foundations   **3.0 cr.**
This course is an introduction to professional education providing a historical and philosophical background from which students can examine their commitment to education. Challenges and issues in education will be discussed in the context of school organization, funding, curriculum, professionalism, legal issues, and effective teacher characteristics. (59.4 Lec. Hrs.)

EDU:213 Introduction to Education   **3.0 cr.**
This course presents an overview of the field of education, including foundations of American education, effective teacher characteristics, student engagement, philosophies of education and curriculum development. Current challenges and issues in regards to education will be discussed and analyzed on topics such as school funding, professionalism, ethical and legal issues, student diversity and classroom management. Students will complete a 50-hour practicum at the elementary, middle or high school level in which an emphasis is placed on educational theory and the creation of a portfolio documenting the students understanding of the Iowa Teaching Standards. This course is recommended for students who plan to major in education. (59.4 Lec. Hrs.)

EDU:220 Human Relations for the Classroom Teacher   **3.0 cr.**
This course focuses on the changing and multi-faceted diversity seen in today's classrooms and communities in the United States. Students will examine their own understanding of the scope of this diversity and be able to see how this diversity can enrich the classroom experience for teachers and students. The course will also show future teachers how to bridge their personal views and knowledge of diversity into actual teaching strategies in order to have a culturally relevant and responsive classroom where every student can thrive. (59.4 Lec. Hrs.)
Prerequisite: ECE:103 or EDU:212

EDU:235 Children's Literature   **3.0 cr.**
This course is designed primarily for the student planning to enter elementary level teaching. The student will develop an understanding of why and what children read, and develop criteria for the selection of material for children's recreational and curriculum enrichment. (59.4 Lec. Hrs.)
Prerequisite: ENG:105 or ENG:107

EDU:245 Exceptional Learner   **3.0 cr.**
An introductory course designed to provide the student with an overview of the field of special education and the policies and programs established for the education of exceptional students. It includes an analysis of the nature, incidence, and characteristics of the physically and mentally handicapped, the behavior disordered, the talented and gifted, and the learning disabled. This course is required for teacher certification in Iowa and Illinois. (59.4 Lec. Hrs.)

EDU:255 Technology in the Classroom   **3.0 cr.**
Technology in the Classroom introduces prospective teacher-prep candidates and other interested students to a variety of digital tools and Internet resources along with best practices in the use of tools and technologies for classroom related functions and issues. (59.4 Lec. Hrs.)

EDU:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

EDU:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

EGR:107 Engineering Academy   **6 cr.**
This course provides a broad introduction to engineering and its various disciplines, with particular emphasis on hands-on, project-based learning in collaboration with industry partner John Deere. (118.8 Lec. Hrs.)

EGR:160 Engineering I   **3.0 cr.**
This course focuses on solving engineering problems while gaining an understanding of the engineering field and fundamental engineering topics. Engineering perspective and thinking will be gained while applying the problem-solving process which involves analysis, documentation, and presentation of technical material. (59.4 Lec. Hrs.)
Prerequisite: MAT:128 with a minimum grade of C-.

EGR:180 Statics   **3.0 cr.**
The course focuses on the fundamental concepts of mechanics including vectors, forces, moments, free body diagrams, equilibrium of a particle, equilibrium of rigid bodies, and equivalent systems. Structural analysis, internal forces, centers of gravity, centroids, moments of inertia, and friction are also covered. Concepts are applied to structural and machine elements such as bars, trusses, frames, and composite mechanisms. (59.4 Lec. Hrs.)
Prerequisite: MAT:210, PHY:212

EGR:280 Dynamics   **3.0 cr.**
The course focuses on particle and rigid body motion. Kinematics, kinetics, work-energy, and impulse-momentum principles are covered for particles and rigid bodies in one-dimension and two-dimensions. Three-dimensional rigid body kinematics and kinetics are introduced. (59.4 Lec. Hrs.)
Prerequisite: EGR:180, MAT:210, and PHY:212

EGR:285 Introduction to Electrical Science   **4.0 cr.**
This course covers electrical circuit analysis with the goal of developing electrical engineering fundamentals for any engineering discipline. This course consists of a lecture and laboratory session. The primary focus is basic circuit theory, circuit modeling, analytical methods, first-order circuits, basic second-order circuits, and steady state AC circuit analysis. Practical laboratory and engineering skills will be achieved through building various electric circuits and taking electrical measurements. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:210, PHY:222

EGR:290 Thermodynamics   **3.0 cr.**
This course focuses on the basic elements of classical thermodynamics including the first and second laws of thermodynamics, work, heat, energy, ideal gases, the Carnot cycle, efficiency, entropy, exergy, vapor power cycles, gas power cycles, and refrigeration cycles. (59.4 Lec. Hrs.)
Prerequisite: CHM:165, MAT:210 and PHY:212

EGR:380 Mechanics of Deformable Bodies   **3.0 cr.**
This course provides an introduction to the mechanics of solids with application to engineering. The primary focus is stress and strain in structural

elements resulting from axial, torsional, flexural, and combined loading. Other major concepts include mechanical material properties used to relate stress and strain in common machine elements, beam stresses and deflections, column buckling, and an introduction to energy methods. (59.4 Lec. Hrs.)
Prerequisite: EGR:180, MAT:210 and PHY:212 with a minimum grade of C–.

EGR:400 PLTW – Introduction to Engineering Design   3.0 cr.
See EGT:400 (59.4 Lec. Hrs.)

EGR:410 PLTW – Principles of Engineering   3.0 cr.
See EGT:410 (59.4 Lec. Hrs.)

EGR:420 PLTW – Digital Electronics   3.0 cr.
See EGT:420 (59.4 Lec. Hrs.)

EGR:430 PLTW – Aerospace Engineering   3.0 cr.
See EGT:430 (59.4 Lec. Hrs.)

EGR:440 PLTW – Biotechnical Engineering   3.0 cr.
See EGT:440 (59.4 Lec. Hrs.)

EGR:450 PLTW – Computer Integrated Manufacturing   3.0 cr.
See EGT:450 (59.4 Lec. Hrs.)

EGR:460 PLTW – Civil Engineering and Architecture   3.0 cr.
See EGT:460 (59.4 Lec. Hrs.)

EGR:470 PLTW – Engineering Design and Development   3.0 cr.
See EGT:470 (59.4 Lec. Hrs.)

EGT:117 Fluid Power Fundamentals   2.0 cr.
This course presents the basic laws of fluid power systems and properties of fluids to explain the behavior of fluid power devices in fundamental applications. Fluid power components such as cylinders, motors, compressors, pumps, flow control valves and accumulators are studied as well as assembled in labs. Fluid power symbols are taught through example air and hydraulic diagrams. Also pressure intensifiers, air-over-oil systems, rotary actuators and flow dividers are presented in their applications. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:706, IND:134

EGT:133 Hydraulics/Pneumatics I   2.0 cr.
This course presents the basic laws of fluid power systems and properties of fluids to explain the behavior of fluid power devices in fundamental applications. Fluid power components such as cylinders, motors, compressors, pumps, flow control valves and accumulators are studied as well as assembled in labs. Fluid power symbols are taught through example air and hydraulic diagrams.

(19.8 Lec. Hrs. / 39.6 Lab Hrs.)

EGT:134 Hydraulics/Pneumatics II   4.0 cr.
This course features fluid power devices in control applications. Fluid power cylinders and motors are presented in direction and speed control circuits using flow controls, direction and pressure control valves. Also pressure intensifiers, air-over-oil systems, rotary actuators and flow dividers are presented in their applications.
(39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: EGT:133

EGT:137 Fluid Power Control   4.0 cr.
This course covers maintenance and troubleshooting fluid power electrical controls such as relay logic, programmable controls and servo controls. Troubleshooting and maintenance of servo valves and proportional control valves as well as other fluid power components are covered. Logical control sequences are presented to instruct the student on the concepts used in industrial controls automation. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: EGT:117, ELT:123

EGT:145 Fluid Power Maintenance   4.0 cr.
This course covers maintenance and troubleshooting of mechanisms used to drive fluid power equipment. Proper installation and alignment of drives are demonstrated in labs. Maintenance and troubleshooting of fluid power components are covered. Students disassemble and reassemble components to learn proper maintenance procedures. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: EGT:117

EGT:161 Strength of Materials I/A   1.5 cr.
The first of a four-course sequence, this is an intensive applied math and strength of materials problem experience. The content covered will be reinforced with many applied problems. This course will include: resultants of coplanar force systems, equilibrium of coplanar force systems, and analysis of structures. (29.7 Lec. Hrs.)
Prerequisite: MAT:145

EGT:162 Strength of Materials I/B   1.5 cr.
The second of a four-course sequence, this is an intensive applied math and strength of materials problem experience. The content covered will be reinforced with many applied problems. This course will include: friction, centroids and centers of gravity, and area moments of inertia.
(29.7 Lec. Hrs.)
Prerequisite: EGT:161

EGT:163 Strength of Materials II/A   1.5 cr.
The third of a four-course sequence, this is an intensive applied math and strength of materials problem experience. The content covered will

be reinforced with many applied problems. This course will include: stresses and strains, properties of materials, and stress considerations.
(29.7 Lec. Hrs.)
Prerequisite: EGT:162

EGT:164 Strength of Materials II/B   1.5 cr.
The fourth of a four-course sequence, this is an intensive applied math and strength of materials problem experience. The content covered will be reinforced with many applied problems. This course will include: torsion in circular sections, shear and bending moments in beams, and stresses in beams. (29.7 Lec. Hrs.)
Prerequisite: EGT:163

EGT:400 PLTW – Introduction to Engineering Design   3.0 cr.
This course will expose students to the design process, engineering standards, research and analysis, technical documentation, global and human impacts, communication methods, and teamwork. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students will use Inventor, a 3D solid modeling design software package, to help them design solutions to solve proposed problems. (59.4 Lec. Hrs.)
Prerequisite: MAT:073

EGT:410 PLTW – Principles of Engineering   3.0 cr.
A course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. The course also includes concerns about social and political consequences of technological change. (59.4 Lec. Hrs.)
Prerequisite: MAT:073

EGT:420 PLTW – Digital Electronics   3.0 cr.
The major focus of the Digital Electronics course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students will analyze, design and build digital electronic circuits. While implementing these designs, students will continually hone their interpersonal skills, creative abilities and understanding of the design process. (59.4 Lec. Hrs.)
Prerequisite: EGT:400 or EGT:410

EGT:430 PLTW – Aerospace Engineering   3.0 cr.
This course exposes students to the world of aeronautics, flight and engineering. Students will be introduced to the Project Lead The Way® activity-based, project-based and problem-based learning through exploring the world of aerospace engineering. Students should have experience in physics, mathematics and technology education. They will employ engineering and scientific concepts in the solution of aerospace problems. (59.4 Lec. Hrs.)

COURSE DESCRIPTIONS

Prerequisite: EGT:400 or EGT:410

EGT:440 PLTW : Biotechnical Engineering   3.0 cr.
Using activities, projects and problems, students learn first-hand how engineers and technicians operate in the worlds of biotechnology and bio-engineering. (59.4 Lec. Hrs.)
Prerequisite: EGT:400 or EGT:410

EGT:450 PLTW – Computer Integrated Manufacturing   3.0 cr.
This course builds on computer solid modeling skills. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design are included. (59.4 Lec. Hrs.)
Prerequisite: EGT:400 or EGT:410

EGT:460 PLTW – Civil Engineering and Architecture   3.0 cr.
This course provides an overview of civil engineering and architecture emphasizing the inter relationship of both fields. Students are presented with real world problems and are given the opportunity to apply knowledge to project planning, site planning, and building design using state-of-the-art software. (59.4 Lec. Hrs.)
Prerequisite: EGT:400 or EGT:410

EGT:470 PLTW – Engineering Design and Development   3.0 cr.
This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles learned in prior required courses. Teams will defend their solution to the engineering problem. (59.4 Lec. Hrs.)
Prerequisite: EGT:400 or EGT:410

ELE:101 Industrial Safety   1.0 cr.
This course provides training in all aspects of safety in the industrial environment. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)

ELE:115 Basic Electricity I   2.0 cr.
This is a course covering basic electrical terminology and symbols, Ohm's Law, Power Law, direct current, series circuits, parallel circuits, combinational circuits, inductance and magnetism. Also testing, measurements, introduction to alternating current and basic troubleshooting are covered as well. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

ELE:216 DC Circuit Analysis   3.0 cr.
This course covers the fundamental concepts of DC circuit components analysis and their applications. The student will learn to identify the basic circuit elements in DC circuits and will be able to calculate current and voltage in a variety of common circuit configurations using standard analysis techniques. Emphasis will be given on the use of lab instruments and measuring devices. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Corequisite: MAT:705

ELE:217 AC Circuit Analysis   3.0 cr.
The course presents the fundamental concepts of AC circuit components analysis and their applications. The student will learn to predict the response of various R, C and L components and their combinations to steady-state sinusoidal inputs. There will be an emphasis on the use of lab instruments and measuring skills. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: ELE:216

ELE:225 Electrical Motor Control and Power Distribution   3.0 cr.
A course that covers the concepts for electrical, motor and electromechanical devices and their use in industrial control circuits. Emphasis is on operation and maintenance of three-phase motors and motor controls and development of troubleshooting skills. An introduction to three-phase power distribution is included. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: ELE:217

ELT:123 Programmable Logic Controllers   3.0 cr.
This course introduces students to basic programmable logic controller (PLC) operation and ladder logic programming including relay logic, program control, timer, and counter instructions. PLC hardware, programming devices, memory, and wiring are also included. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:110 or CSC:113, ELE:225

ELT:125 Advanced PLC   3.0 cr.
This course is a continuation of Programmable Logic Controllers (PLCs). Data manipulation, sequencers, troubleshooting, networking techniques, and ControlLogix™ controllers will be covered. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELT:123

ELT:177 Microcontrollers   3.0 cr.
This course is an introduction to the study of microcontrollers and their applications. Topics include microcontroller architecture, and introductory programming and interfacing techniques. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ELT:309 Digital Circuits   3.0 cr.
This course teaches the fundamentals of digital concepts and circuitry. Students learn how to interpret digital logic circuits by understanding the concepts of digital devices, gates, flip-flops, timers, counters, decoders, encoders, multiplexers, and de-multiplexers. Emphasis is given to hands-on lab experiences. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELT:312

ELT:312 Solid State Devices and Systems   3.0 cr.
This course covers analog semiconductor devices, circuits, and systems. Theory and applications are presented in a logical sequence to prepare students for the job of effectively diagnosing, repairing, and installing electronic circuits and systems. Emphasis is given to the use of instrumentation and lab skills. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELE:217

EMS:202 Emergency Medical Technican   9.5 cr.
The Emergency Medical Technician Course is based on the National Emergency Medical Services Education Standards & Instruction Guidelines which is the National Standard Curriculum for EMS Education which is the foundation of knowledge and skills of the Emergency Medical Technician. Upon successful completion of the program, the student will obtain the AHA Pediatric Emergency Assessment, Recognition, & Stabilization certification, and be eligible for the National Registry EMT Practical & Written Examination to obtain a National EMT license, and a State of Iowa EMT certification. (173.25 Lec. Hrs. / 29.7 Clinical Hrs. / 19.8 Co-op Hrs.)

EMS:238 Advanced Emergency Medical Technician   15 cr.
The Advanced Emergency Medical Technician Course is based on the National Emergency Medical Services Education Standards & Instruction Guidelines which is the National Standard Curriculum for EMS Education which is the foundation of knowledge and skills of the Advanced Emergency Medical Technician. Upon successful completion of the program, the student will obtain the AHA Pediatric Emergency Assessment, Stabilization certification, and is eligible for the National Registry of Advanced Emergency Medical Technician practical and written examinations. Upon successful completion of the National Registry examinations, the student will receive a National Registry Advanced Emergency Medical Technician certification, and a State of Iowa Advanced EMT certification. (217.8 Lec. Hrs. /118.8 Clinical Hrs. / 158.4 Co-op Hrs.)
Prerequisite: EMS:202. Must possess a current American Heart Association, Healthcare Provider CPR card which validates training in obstructed airway, AED and CPR for adults, children, and infants. Must possess a current State of Iowa EMT-Basic or Iowa EMT-Intermediate/85 certification.

EMS:810 Advanced Cardiac Life Support   1.0 cr.
This intensive certification course is presented utilizing the American Heart Association Standards and Guidelines for the Advanced Cardiac Life

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Support Provider (ACLS). This course is designed to expand the students' knowledge of Emergency Cardiovascular Care for the adult patient, and to formulate the correct treatment plan for given patient simulations. Upon successful course completion, the student will receive an American Heart Association ACLS Provider certification card for a two-year certification period. (19.8 Lec. Hrs.)
Prerequisite: EMS:201, EMS:211, EMS:221, EMS:405

EMS:815 Advanced Pediatric Life Support   1.0 cr.
This intensive certification course is presented utilizing the American Academy of Pediatrics and the American Heart Association Standards and Guidelines for the Pediatric Advanced Life Support Provider (PALS). This course is designed to expand the students' knowledge of Emergency Cardiovascular Care for the pediatric patient, and to formulate the correct treatment plan for given patient simulations. Upon successful course completion, the student will receive an American Heart Association PALS Provider certification card for a two-year certification period. (19.8 Lec. Hrs.)
Prerequisite: EMS:201, EMS:211, EMS:221, EMS:405

EMS:816 Pediatric Education for Prehospital Professionals   1.0 cr.
The Pediatric Education for the Pre-Hospital Provider (PEPP) course is an intensive program designed to expand the students' knowledge of Cardiac and Trauma Emergency Care for the pediatric patient. Participants will learn how to effectively assess and manage ill and injured children. This curriculum was developed by the American Academy of Pediatrics as a complete source of pre-hospital medical information for the emergent care of infants and children. Upon successful course completion, the student will receive an American Academy of Pediatrics PEPP Provider certification card for a four-year certification period. (19.8 Lec. Hrs.)
Prerequisite: EMS:201, EMS:211, EMS:221, EMS:405

EMS:817 Basic Cardiac Life Support Instructor   1.0 cr.
This course will provide the participant with the knowledge necessary to instruct the American Heart Association Basic Cardiac Life Support classes. It is designed to reinforce and expand BLS/AED/First Aid knowledge and skills, address teaching techniques and class formats, and cover record requirements and proper care of training manikins. (19.8 Lec. Hrs.)
Prerequisite: EMS:238

EMS:818 Neonatal Resuscitation Provider   1.0 cr.
The Neonatal Resuscitation Provider (NRP) course is a certification program that utilizes the Standards and Guidelines of the American Academy of Pediatrics and the American Heart Association. This program is designed to be an intensive program where participants learn an evidence-based approach in resuscitation of the neonate. The causes, prevention, and management of mild to severe neonatal asphyxia are carefully explained so that health care professionals may develop optimal knowledge and skill in newborn resuscitation. Upon successful course completion, the student will receive an American Academy of Pediatrics/American Heart Association NRP Provider certification card for a two-year certification period. (19.8 Lec. Hrs.)
Prerequisite: EMS:201, EMS:211, EMS:221, EMS:405

EMS:820 Prehospital Trauma Life Support   1.0 cr.
The Pre-Hospital Trauma Life Support (PHTLS) course is presented utilizing the Standards and Guidelines for Emergency Trauma Care under the direction of the American College of Surgeons. This intensive hands-on program is a unique educational opportunity that was created in recognition for the real need in EMS education for additional training in the care of the trauma patient. This program is designed to enhance and increase knowledge and skills necessary in delivering critical care in the pre-hospital environment. Upon successful course completion, the student will receive an American College of Surgeons PHTLS Provider certification card for a four-year certification period. (19.8 Lec. Hrs.)
Prerequisite: EMS:218

ENG:013 Basic Writing   3.0 cr.
Introductory course designed to help the student who has difficulty in expressing thoughts clearly and effectively in written communication. Emphasis is on improving writing skills by constant practice. Grammar, sentence structures, and paragraph structures are studied in the context of writing. This course is required of students whose diagnostic or assessment scores indicate a need for preparatory work in composition. (59.4 Lec. Hrs.)

ENG:105 Composition I   3.0 cr.
A writing and reading course designed to prepare the student for the types of written communication and thought essential to the academic and working world. The general goals of Composition I are to have students gain more confidence in their writing abilities and improve their proficiency in critical reading and in writing non-fiction prose, with emphasis on narration, exposition, and persuasion. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Communications Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

ENG:106 Composition II   3.0 cr.
Composition II is a continuation of Composition I. Students will analyze, synthesize, and evaluate texts. Critical thinking skills, argumentation, writing style, and academic research, introduced in Composition I, will also be further developed in this course. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Communications Area.
Prerequisite: ENG:105 or ENG:107

ENG:107 Composition I: Technical Writing   3.0 cr.
A writing, speaking, and reading course to prepare students for the types of communication and thought essential to the working world. The general goals of Technical Writing are that students gain more confidence in their writing abilities and improve their proficiency in critical reading and problem solving, applied to practical situations. Students will also present material orally and visually with assignments related to their content areas. Emphasis is on the writing process and learning the forms appropriate for technical communication purposes and audiences. This course is an alternative to ENG:105 Composition I and is recommended for students in technical, business, and science programs. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Communications Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

ENG:108 Composition II: Technical Writing   3.0 cr.
An advanced course in technical writing for students in technical, business or science programs. Because students in technical fields need to become familiar with the complexities and constraints of on-the-job communication, this course offers practice in the kinds of technical writing, reading, and oral communication encountered in the world of work. Students will analyze, evaluate and research complex communication situations and apply what they've learned, using collaborative, interpersonal and problem-solving skills and the essentials of style, formatting, documentation and graphics. Designed to help students acquire the rhetorical skills needed to respond to a variety of audiences in authoritative and convincing ways, the course meets the objectives of EN 110. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Communications Area.
Prerequisite: ENG:105 or ENG:107

ENG:221 Creative Writing   3.0 cr.
Advanced writing workshop designed for the student who likes to write. Emphasis is placed on self-expression, audience reaction, craftsmanship and the importance of meeting deadlines. Assignments will range from short sketches and poems to full-length short stories and essays. The learning experience is enhanced through class discussion and critical analysis of individual works. (59.4 Lec. Hrs.)
Prerequisite: ENG:105

ENG:230 Creative Writing: Fiction   3.0 cr.
The study and practice of fiction. Emphasis is on writing the short story with practice and study of the proper elements of writing. These elements are also applicable to the writing of the novel. (59.4 Lec. Hrs.)
Prerequisite: ENG:106 or ENG-108

ENG:235 Playwriting and

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Screenwriting   **3.0 cr.**
This course will allow students to experience the creative process firsthand at both the intuitive and technical level while being guided through the writing of a one-act play. Playwriting is designed to focus on both the art and the craft of dramatic writing, with a particular focus on process. Students will present script pages for exploration, and the class will offer their feedback as a prelude to rewriting, expanding, and polishing.(59.4 Lec. Hrs.)

ENG:238 Creative Writing: Nonfiction   **3.0 cr.**
The practice of creating and marketing non-fiction prose. Emphasis is on the writing of expository (non-fiction) essays. (59.4 Lec. Hrs.)
Prerequisite: ENG:106 or ENG:108

ENG:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

ENG:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs.)

ENV:111 Environmental Science   **4.0 cr.**
In this course common environmental problems will be surveyed, with discussion as to their possible causes, consequences, and remedies. An emphasis will be placed on objective analyses of issues and arguments related to environmental concerns. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area. May be counted as either Life Sciences or Physical Sciences, but not both.
Prerequisite: RDG:032 or RDG:033, or minimum reading placement score based on college assessment.

ENV:115 Environmental Science   **3.0 cr.**
In this course common environmental problems will be surveyed, with discussion as to their possible causes, consequences, and remedies. An emphasis will be placed on objective analyses of issues and arguments related to environmental concerns. (59.4 Lec. Hrs.)
Prerequisite: RDG:032 or RDG:033, or minimum reading placement score based on college assessment.

ENV:137 Studies in Energy and the Environment   **1.0 cr.**
Independent study of problems concerning pollution and energy. The student will review a minimum of three books or investigate and write a paper on any energy or pollution problem of current interest, to receive one credit. Two credits will be earned for the three book reviews and the paper. (19.8 Lec. Hrs.)
Prerequisite: RDG:032 or RDG:033, or minimum reading placement score based on college assessment.

ENV:139 Energy and the Environment   **4.0 cr.**
The course is intended to introduce students to the scientific principles Associated with energy transformation, collection, extraction, transmission and storage as they learn energy's significance in society and the effects of its use on the environment. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: RDG:032 or RDG:033, or minimum reading placement score based on college assessment.

ENV:145 Conservation Biology   **4.0 cr.**
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.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: ENV:111

ENV:910 Environmental Science Internship   **2.0 cr.**
This course provides students with the opportunity to learn hands-on experiences in fields related to environmental science. (158.4 Co-op Hrs.)

ENV:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

ENV:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

ESL:113 Basic ESL Grammar   **2.0 cr.**
This is an entry-level course in the acquisition of basic grammatical rules and structures necessary for using English as a second language. Emphasis is placed on practicing structure in context and developing communicative competence. This course is designed to be taken with Listening Comprehension, Speaking, Reading and Writing as part of an intensive English program for non-native speakers. Course placement approval requires permission of program manager.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)

ESL:121 Basic ESL Writing   **1.0 cr.**
This is an entry-level course in the acquisition of basic writing skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)

ESL:122 Basic ESL Listening Comprehension   **1.0 cr.**
This is an entry-level course in the acquisition of basic aural skills in English for non-native speakers. This course is designed to be taken with Grammar, Speaking, Reading and Writing as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)

ESL:123 Basic ESL Speaking   **1.0 cr.**
This is an entry-level course in the acquisition of basic oral skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Writing and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:113, ESL:124
Corequisite: ESL:121, ESL:122

ESL:124 Basic ESL Reading   **1.0 cr.**
This is an entry-level course in the acquisition of basic reading skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Writing as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:113, ESL:121, ESL:122, and ESL:123

ESL:125 Low Intermediate ESL

COURSE DESCRIPTIONS

Grammar   **2.0 cr.**
This is a course in continuing the acquisition of basic grammatical rules and structures necessary for using English as a second language. Emphasis is placed on practicing structure in context and developing communicative competence. This course is designed to be taken with Listening Comprehension, Speaking, Reading and Writing as part of an intensive English program for non-native speakers. Course placement approval requires permission of program manager.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: ESL:126, ESL:127, ESL:128, and ESL:129

ESL:126 Low Intermediate ESL Listening Comprehension   **1.0 cr.**
This is a course in continuing the acquisition of basic aural skills in English for non-native speakers. This course is designed to be taken with Grammar, Speaking, Reading and Writing as part of an intensive English program. Course placement approval requires permission of program manager.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:125, ESL:127, ESL:128, and ESL:129

ESL:127 Low Intermediate ESL Speaking   **1.0 cr.**
This is a course in continuing the acquisition of basic oral skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Writing and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:125, ESL:126, ESL:128, and ESL:129

ESL:128 Low Intermediate ESL Reading   **1.0 cr.**
This is a course in continuing the acquisition of basic reading skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Writing as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:125, ESL:126, ESL:127, and ESL:129

ESL:129 Low Intermediate ESL Writing 1.0 cr.
This is a course in continuing the acquisition of basic writing skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:125, ESL:126, ESL:127, and ESL:128

ESL:130 Intermediate ESL Grammar   2.0 cr.
This is a course in continuing the acquisition of grammatical rules and structures necessary for using English as a second language. Emphasis is placed on practicing structure in context and developing communicative competence. This course is designed to be taken with Listening Comprehension, Speaking, Reading and Writing as part of an intensive English program for non-native speakers. Course placement approval requires permission of program manager.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: ESL:134, ESL:136, ESL:137, and ESL:138

ESL:134 Intermediate ESL Writing   1.0 cr.
This is a course in continuing the acquisition of writing skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:130, ESL:136, ESL:137, and ESL:138

ESL:136 Intermediate ESL Listening Comprehension   **1.0 cr.**
This is a course in continuing the acquisition of aural skills in English for non-native speakers. This course is designed to be taken with Grammar, Speaking, Reading and Writing as part of an intensive English program. Course placement approval requires permission of program manager.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:130, ESL:134, ESL:137, and ESL:138

ESL:137 Intermediate ESL Speaking   1.0 cr.
This is a course in continuing the acquisition of oral skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Writing and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:130, ESL:134, ESL:136, and ESL:138

ESL:138 Intermediate ESL Reading   1.0 cr.
This is a course in continuing the acquisition of reading skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Writing as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:130, ESL:134, ESL:136, and ESL:137

ESL:140 High Intermediate ESL

Grammar   **2.0 cr.**
This is a course in continuing the acquisition of grammatical rules and structures necessary for using English as a second language. Emphasis is placed on practicing structure in context and developing communicative competence. This course is designed to be taken with Listening Comprehension, Speaking, Reading and Writing as part of an intensive English program. Course placement approval requires permission of program manager. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: ESL:141, ESL:146, ESL:147, and ESL:148

ESL:141 High Intermediate ESL Writing   **1.0 cr.**
This is a course in continuing the acquisition of writing skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:140, ESL:146, ESL:147, and ESL:148

ESL:146 High Intermediate ESL Listening Comprehension   **1.0 cr.**
This is a course in continuing the acquisition of aural skills in English for non-native speakers. This course is designed to be taken with Grammar, Speaking, Reading and Writing as part of an intensive English program. Course placement approval requires permission of program manager.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:140, ESL:141, ESL:147, and ESL:148

ESL:147 High Intermediate ESL Speaking   **1.0 cr.**
This is a course in continuing the acquisition of oral skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Writing and Reading as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:140, ESL:141, ESL:146, and ESL:148

ESL:148 High Intermediate ESL Reading   **1.0 cr.**
This is a course in continuing the acquisition of reading skills in English for non-native speakers. This course is designed to be taken with Grammar, Listening Comprehension, Speaking and Writing as part of an intensive English program. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:140, ESL:141, ESL:146, and ESL:147

ESL:240 Low Advanced ESL Communicative Competence   **1.0 cr.**

This is a course for non-native speakers to improve advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)

ESL:241 Low Advanced ESL Communicative Competence   2.0 cr.
This is a course for non-native speakers to improve advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

ESL:242 Low Advanced ESL Communicative Competence   3.0 cr.
This is a course for non-native speakers to improve advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)

ESL:243 Low Advanced ESL Communicative Competence   4.0 cr.
This is a course for non-native speakers to improve advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)

ESL:244 Low Advanced ESL Grammar / Writing   3.0 cr.
This is a course for non-native speakers in the acquisition of advanced grammatical structures and writing skills necessary for academic English. Emphasis is placed on practicing structure in context and writing fluently. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ESL:253 Advanced ESL Grammar / Writing   3.0 cr.
This is a course for non-native speakers to review and refine advanced grammatical structures and writing skills necessary for academic English. Emphasis is placed on practicing structure in context and writing fluently. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

ESL:254 Advanced ESL Communicative Competence   1.0 cr.
This is a course for non-native speakers to refine advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:253

ESL:255 Advanced ESL Communicative Competence   2.0 cr.
This is a course for non-native speakers to refine advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: ESL:253

ESL:256 Advanced ESL Communicative Competence   3.0 cr.
This is a course for non-native speakers to refine advanced language skills in academic reading, listening and speaking. This course is designed so a student could concurrently enroll in selected non-ESL courses. Course placement approval requires permission of program manager. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Recommended: ESL:253

ESL:260 High Advanced ESL Grammar / Writing   3.0 cr.
This is a course for non-native speakers wishing to attain mastery of the most advanced grammatical structures and writing skills necessary for academic English. The writing component will include a research paper. Course placement approval requires permission of program manager. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: ESL:261, ESL:928

ESL:261 High Advanced ESL Communicative Competence   1.0 cr.
This is a course for non-native speakers wishing to attain mastery of the most advanced language skills in academic reading, listening and speaking. Course placement approval requires permission of program manager. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Recommended: ESL:260, ESL:928

ESL:262 High Advanced ESL Communicative Competence   2.0 cr.
This is a course for non-native speakers wishing to attain mastery of the most advanced language skills in academic reading, listening and speaking. Course placement approval requires permission of program manager. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: ESL:260, ESL:928

ESL:263 High Advanced ESL

Communicative Competence   3.0 cr.
This is a course for non-native speakers wishing to attain mastery of the most advanced language skills in academic reading, listening and speaking. Course placement approval requires permission of program manager. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Recommended: ESL:260, ESL:928

ESL:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

FIN:106 AIB Principles of Banking   3.0 cr.
This course presents basic economic principles as they relate to banking. It provides the essential understanding necessary to further banking study. (59.4 Lec. Hrs.)

FIN:121 Personal Finance   3.0 cr.
This course presents to students a general background in personal finance for successful applications in personal financial management such as basic money management, types of insurance, the basics of investing in bonds, stocks, and mutual funds, real estate, and tax strategies. (59.4 Lec. Hrs.)
Prerequisite: MAT:041 or minimum math placement score based on college assessment.

FIN:130 Principles of Finance   3.0 cr.
This course addresses financial management and the principles and practices of decision-making involving financial analysis, valuation, capital allocation, and budgeting. (59.4 Lec. Hrs.)
Prerequisite: ACC:142, ECN:120

FIN:180 Intro to Investments   3.0 cr.
This course introduces students to the theory and application of investment analysis and portfolio management with particular attention paid to asset allocation and systematic and nonsystematic risk. Topics include the analysis of fixed income instruments, equity, and derivative instruments. (59.4 Lec. Hrs.)

FLC:141 Elementary Chinese I   4.0 cr.
In this course students will develop the basic skills of understanding, speaking, reading and writing Chinese. The course also includes grammar analysis, classroom conversational practice and some exploration of the Chinese culture. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: RDG:033 or minimum reading placement score based on college assessment.

FLF:141 Elementary French I   4.0 cr.
This is a foundation course which covers the

COURSE DESCRIPTIONS

fundamentals of French language and culture. The course is designed for the student with no knowledge of the language. The communication skills of reading, writing and speaking will be developed to aid the student in oral proficiency. Each unit will deal with specific aspects of French culture. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.

FLF:142 Elementary French II   4.0 cr.
This course is designed for the student who has some knowledge of French language and culture. Oral communication is stressed with further emphasis on grammar and selected readings in history, literature and culture of France. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLF:141

FLF:231 Intermediate French I   3.0 cr.
Provides a thorough review of the patterns of basic French grammar with emphasis on the development of speaking, writing and understanding the French language and literature. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLF:142 or 2 years high school French

FLF:232 Intermediate French II   4.0 cr.
Provides a reinforcement of basic skills with emphasis on conversation and composition, literacy readings, and review of grammar as needed. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLF:231 or 3 years of high school French

FLF:241 Intermediate French I   4.0 cr.
Provides a thorough review of the patterns of basic French grammar with emphasis on the development of speaking, writing and understanding the French language, literature and culture. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLF:142

FLF:242 Intermediate French II   4.0 cr.
Thorough, continuing review of language structures with ongoing emphasis of the language skills of reading, writing, speaking, and listening. Focus on cultural literacy with parallel grammatical development. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLF:241 or consent of instructor

FLG:141 Elementary German I   4.0 cr.
Introduces the basic grammar and pronunciation of the German language. This is a course for students with little or no knowledge of the German language. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.

FLG:142 Elementary German II   4.0 cr.
A continuation of FLG:141 German I. This course provides a review of basic material and pronunciation plus introduction of new grammatical structures. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLG:141 or 1-2 years of high school German

FLI:141 Elementary Italian I   3.0 cr.
Introduces the basic grammar and pronunciation of the Italian language. This is a course for students with little or no knowledge of the Italian language. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013, RDG:032 or RDG:033; or minimum English and reading placement scores based on college assessment.

FLS:141 Elementary Spanish I   4.0 cr.
Beginning Spanish with emphasis on understanding, speaking, reading and writing. Supplemented by cultural readings and multimedia presentations. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.

FLS:142 Elementary Spanish II   4.0 cr.
A continuation of FLS:141, further developing the student's skills in reading, writing, listening and speaking. Similarities and differences in culture will also be explored. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLS:141

FLS:231 Intermediate Spanish I   3.0 cr.
Equivalent to third-level Spanish, this course reviews the fundamentals of language communication and further improves on idiomatic usages, speaking and understanding. Readings and multimedia presentations on Hispanic culture, current events and literary offerings are integrated in texts and assignments. Exams will test oral, cultural, comprehension and written skills. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLS:142 or 2 years of high school Spanish

FLS:232 Intermediate Spanish II   3.0 cr.
Designed to complete the second-year college

Spanish coursework through intensive practices of methods and materials presented in Intermediate Spanish I. Advanced examination of Hispanic culture through selected readings and multi-media presentations will aid the student in increasing speed and fluency in the spoken language. Translation skills will be enhanced as well. Exams will test oral, cultural, comprehension and written skills. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLS:142 or 2 years of high school Spanish

FLS:241 Intermediate Spanish I   4.0 cr.
Equivalent to third-level Spanish, this course reviews the fundamentals of language communication and further improves on idiomatic usages, speaking and understanding. Readings and multimedia presentations on Hispanic culture, current events and literary offerings are integrated in texts and assignments. Exams will test oral, cultural, comprehension and written skills. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLS:231 or consent of instructor

FLS:242 Intermediate Spanish II   4.0 cr.
Designed to complete the second-year college Spanish coursework through intensive practices of methods and materials presented in Intermediate Spanish I. Advanced examination of Hispanic culture through selected readings and multi-media presentations will aid the student in increasing speed and fluency in the spoken language. Translation skills will be enhanced as well. Exams will test oral, cultural, comprehension and written skills. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: FLS:231 or consent of instructor

GEO:121 World Regional Geography   3.0 cr.
A survey course of basic geographical knowledge. Students will be introduced to geographical principles and concepts thus providing them with the tools to study both physical and human geography. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

GEO:126 Cultural Geography   3.0 cr.
This course is an introduction to cultural geography through the study of global patterns of many aspects of human culture, including population, language, religion, urban and rural settlement, and ways of economic livelihood. (59.4 Lec. Hrs.)

GEO:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.

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(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

GIS:111 Intro to Geographic Information Systems   3.0 cr.
The focus of this class will be on the basic processes and applications of Geographic Information Systems. The class will cover, among other things, file formats, data bases, spatial analysis and use of GIS data and decision-making. (59.4 Lec. Hrs.)

GLS:100 Contemporary World Issues   3.0 cr.
This course is an interdisciplinary approach to the study of issues affecting life in the modern world. It identifies topical areas to study as background to major contemporary issues. Typical areas of discussion will be ecology, world economy, resource utilization, and comparative cultures among others. Instruction will be primarily discussion oriented and will utilize guest lectures, outside reading and projects, and limited lecture. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.

GLS:120 Education Experience Abroad   1.0 – 3.0 cr.
Exploration of world historic sites, cultural features and geography, combined with reading from applicable sources, will enable the student to draw conclusions about the significance of individual events in a context of a culture/civilization. This course provides a structured short-term study experience in a foreign country, preceded by preparatory study and followed by project completion after return from travel. Additional cost for travel. (19.8 – 59.4 Lec. Hrs.)
Prerequisite: ENG:013 and RDG:032 or RDG:033; or minimum English and reading placement scores based on college assessment; or consent of instructor.

GRA:103 Introduction to Macintosh   1.0 cr.
This specialized course is designed for students entering the graphic arts technology program. Students will be introduced to basic computing concepts including: cross-platform explanations of common operating systems, working with files, accessing and submitting information across networks, font and file management, and basic troubleshooting. (19.8 Lec. Hrs.)

GRA:134 Digital Photography   3.0 cr.
This is an introductory course is on digital photography. Fundamental concepts covered include equipment, exposure, and composition. Students will also begin to learn how to make high-quality black-and-white and color and prints from their work. (59.4 Lec. Hrs.)

GRA:150 Introduction to Web Design   3.0 cr.
This course will instruct students on planning, designing, and managing effective websites. Focus is placed on developing manual HTML and CSS scripting skills as well as incorporating XML-ready and XHTML-ready script into the code. Throughout this class special consideration given to creating sites which are W3C and ADA compliant. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: GRA:103, GRA:220

GRA:164 Digital 3–D and Animation   3.0 cr.
This specialization course will introduce the student to the basic steps for completing computer animation. Concepts to be explored include 3-D modeling, rendering, composting and special effects and recording of the animation sequence to video. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: GRT:162, GRT:220

GRA:173 Typography   3.0 cr.
This course explores the fundamental principles of Typography and its role in visual communication. Students will explore both the form and function of typography in design through lectures and demonstrations. Emphasis is placed on the history of type, anatomy of letter forms and appropriate uses of type. (59.4 Lec. Hrs.)

GRA:232 Digital Photography   3.0 cr.
This is an introductory course in digital photography. Fundamental concepts covered include equipment, exposure, and composition. Students will also begin to learn how to make high-quality black-and-white and color and prints from their work. A professional quality digital single lens reflex (DSLR) camera is required. (59.4 Lec. Hrs.)

GRA:272 Advanced Photography   3.0 cr.
Through practice with subject matter and materials both assigned and of their own choosing, students will learn to determine the most effective approach (creative and technical) that should be taken for conveying a pictorial message that will stimulate a response in the viewer. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRT:220, GRT:230, and JOU:172

GRA:900 Portfolio   3.0 cr.
This course provides a highly individualized learning experience within the areas of electronic prepress, multi-media, web design, graphic design, animation, graphic arts management, photography, or game development. Specific advanced tasks and projects are identified and customized for the student. Students will assemble and create a high quality portfolio highlighting the skills and personal style they have developed while completing the Graphic Arts Technology Program. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: Complete all courses from the first three semesters of the Graphic Arts program; or consent of instructor.

GRD:415 InDesign I   3.0 cr.
In this course, students will gain an in-depth working knowledge of Desktop Publishing layout software, with an emphasis on technical skills. In addition they will learn about the basics of design and layout, typography and about the many tools and resources available. Participants will study and apply the design elements of emphasis, contrast, balance, alignment, repetition, flow, use of images, color and typography by completing specific projects designed to increase their understanding of each element and through class critiques of each project. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: RDG:033 or minimum reading placement based on college assessment.

GRD:430 InDesign II   3.0 cr.
This course will cover advanced topics in design and layout. Students will further develop their skills by completing advanced graphic design projects. In addition, quality control, attention to detail, setting up electronic files correctly, and choosing an appropriate paper will be emphasized. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRD:415

GRD:459 Illustrator   3.0 cr.
This course introduces students to the tools and concepts used in designing and creating images using illustration software. Students will use illustration software to create common line art applications such as logos, charts and graphs, and more complex illustrations. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

GRD:463 Photoshop   3.0 cr.
This course will introduce students to the appropriate software for working with bitmap images. Image acquisition by scanning, manipulation for tonal and color correction as well as retouching and image output to print and web formats as it applies to Graphic Arts industry will be emphasized. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:073 or minimum math placement based on college assessment.

GRT:107 Introduction to Graphics Arts Technology   3.0 cr.

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This course provides students with a complete introduction to the graphic communications industry. Students will cover safety, an introduction to graphic communications, history of the graphic arts, traditional and electronic pre-press procedures, press and finishing operations, web development and multimedia. (59.4 Lec. Hrs.)

GRT:110 Calculations and Measurements for Graphic Arts 3.0 cr.
The course is designed for students who will pursue a career in the graphic arts industry. It includes a complete study of basic math skills for pre-press, press, estimating and bindery. (59.4 Lec. Hrs.)

GRT:121 Electronic Publishing 3.0 cr.
Participants will gain an in-depth working knowledge of Quark XPress, with an emphasis on technical skills. In addition they will learn about the basics of design and layout, typography and about the many tools and resources available. Participants will study and apply the design elements of emphasis, contrast, balance alignment, repetition, flow, use of images, color and typography by completing specific projects designed to increase their understanding of each element and through class critiques of each project. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: GRA:103, GRT:108

GRT:130 Quality Concepts and Regulations for the Graphic Arts 2.0 cr.
This course will introduce the student to concepts being utilized throughout industry today. Techniques for team building, decision making and communication will be discussed and incorporated. The skills developed in this course will be utilized throughout the program. (39.6 Lec. Hrs.)

GRT:160 Electronic Pre-Press 3.0 cr.
A continuation of Electronic Publishing. The course will involve the student in advanced functions on the computer formats. Exposure to layout software as well as various publication formats will be addressed. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: GRT:121

GRT:163 Multimedia and the Internet 3.0 cr.
This course explores the creation of interactive projects utilizing time-based graphics, sounds, animation, and video. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRT:130, GRT:220
Corequisite: GRT:110, GRT:250

GRT:165 Multimedia and the Internet II 3.0 cr.
This class explores the development of interactive content using ActionScript 3.0. Special focus will be on production and project management skills, along with best practices. Typical projects include preloaders, interactive portfolios, digital kiosks, music / video players, games, etc. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRT:163

GRT:169 Color Theory 2.0 cr.
This course is designed to increase the intellectual and visual awareness of the technical aspects, manipulation, and control of color. Basic color principles, terminology, and applications will be discussed. Students will experiment with the interaction of color and its implications, and explore color harmonies. (39.6 Lec. Hrs.)

GRT:215 Advanced Pre-Press Techniques 3.0 cr.
An in-depth study of photomechanical techniques and processes detailing half-toning, duo tones and problem solving. This specialization course will also detail advanced film assembly and contacting operations. Other concepts explored will include densitometry, pin register systems and maintenance on various pre-press equipment. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: GRT:110

GRT:220 Electronic Color Control 3.0 cr.
This specialization course will introduce the student to various means of image creation and manipulation. The principles of scanning, software systems and color control through means of composites will be addressed. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: GRT:160

GRT:222 Acrobat 3.0 cr.
This course will focus on advanced electronic file preparation issues. Time will be spent on exploring and applying the tasks and processes required for preparing and delivering efficient digital content. Experience in fixing incorrectly prepared files and preparing files for electronic distribution and online use will be emphasized. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRD:415

GRT:230 Color Correction 3.0 cr.
In this course students will explore fundamental topics related to the creation, capture, manipulation, and targeting of photographic content for print and web. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRD:463, GRT:169

GRT:237 Packaging Design 3.0 cr.
This course will explore methods and techniques for the design and assembly of three-dimensional product packages and defines the role of packaging in product identification, presentation, and production. The unique challenges of adapting typography, illustration, design and materials to three-dimensional forms are explored. A combination of traditional hands-on skills such as straight edges, drafting, illustration, drawing and digital skills tools such as Adobe Photoshop, Illustrator and InDesign will be necessary to complete most projects. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRD:415

GRT:245 Issues in Graphic Arts Technology 3.0 cr.
This course covers a variety of business topics related to graphic communications, including professional relationships, business practices, pricing and trade customs, salaries, legal issues and professional and technology related issues. In addition forms and contracts will be covered.

The course will cover graphic design, web design, illustration, animation and other areas of specialty. (59.4 Lec. Hrs.)
Prerequisite: GRA:107

GRT:264 Authoring and Web Design II 3.0 cr.
This specialization course will introduce the student to advanced concepts in web development. Students will begin developing skills in scripting JavaScript and Document Object Model (DOM) Scripting. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: GRA:150

GRT:266 Technology Changes in the Graphic Arts 2.0 cr.
Seminar course on advances in graphic arts technology and how they may affect the industry and workplace. The Graphic Arts Technology Center will be utilized to demonstrate new advances in technology and environmental technology. (39.6 Lec. Hrs.)
Prerequisite: All core curriculum courses and technical electives for the first three terms of the Graphic Arts program.

GRT:805 Graphic Arts Process Production Co:op 5.0 cr.
A cooperative learning experience in the area of Graphic Arts. (19.8 Lec. Hrs. / 316.8 Co-op Hr.)

GRT:949 Special Topics 1.0 cr.
This is a special topic course offered at discretion of the instructor. Students will be able to explore in greater detail a subject, that does not normally fall within the scope of the current curriculum for the Graphic Arts Technology program, but is related to the topic of Graphic Arts. The description for this course will be determined on a case by case basis as appropriate to the content. (39.6 Lab Hrs.)

HCM:100 Sanitation and Safety 2.0 cr.
This course provides the student with a solid foundation in food service sanitation and safety. Students are required to the pass the ServSafe Food Protection Manager Certification exam to continue in the Culinary Arts curriculum. (39.6 Lec. Hrs.)

HCM:116 Fundamentals Of Baking 3.0 cr.
This course is for a student with very little baking or pastry experience. Students will cover the basics of theory and preparation of baked items. Science and math will play a large role in this course. Items the students will prepare include yeast bread, cookies, creams, puddings, pie crusts and filling and quick breads. The focus of the course is on standard production methods for a successful product in small and large scale batches. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

HCM:125 Basic Cake Decorating 1.0 cr.
The course is designed to explain and demonstrate

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the techniques, equipment, and components required to produce a decorated cake. Students will practice decorating layered cakes and tiered cakes. (39.6 Lab Hrs.)

HCM:154 Basic Food Preparation   2.0 cr.
This course teaches students the basic skills of grilling, frying, broiling, sautéing, vegetable cookery, recipe conversion, recipe costing, and creating soups and stocks. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Corequisite: HCM:180

HCM:155 Garde Manger   3.0 cr.
In this course students will prepare all foods Associated with a true garde manger station in a restaurant, including salads, pate, terrines, cold appetizers, showpieces, ice carvings, canapés and show platters. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: HCM:100, HCM:160, and HCM:241

HCM:156 Intermediate Food Prep   3.0 cr.
Upon completion of this course, students will have attained a medium level of skills in equipment usage, knife skills including mandolin, starches and vegetable cookery, protein fabrication, derivative sauces, fish and shell fish cookery, stone oven and Rational cooking, beginning sous vide cookery, and sanitation skills. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: HCM:100, HCM:154, and HCM:180 with a minimum grade of C.

HCM:160 Advanced Food Preparation   3.0 cr.
This course will teach food preparation and professional standards at an advanced level. Skill areas addressed include knife cuts, industry based equipment, mother sauces and their derivatives, culinary brigade, chef management, the preparation of soups, starches, vegetables, proteins, sushi, healthy alternatives and one-bite foods. (39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: HCM:156, HCM:265

HCM:180 Food Fundamentals   2.0 cr.
This course is an overview of foodservice and culinary arts. Students look at industry structure, developing trends and influences of management. Students will develop their awareness of food products and the world of food. (39.6 Lec. Hrs.)

HCM:182 Intermediate Baking   3.0 cr.
This course is designed for students with a fundamental knowledge of baking. The students will learn to bake a variety of items from breads to custards to cakes. The students will use their creativity in this class as well as follow variations of recipes. Science and math are a large part of this course. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: HCM:100, HCM:116

HCM:183 Advanced Baking   3.0 cr.
This course is for a student with experience in baking. The students will hone their skills, learn

new recipes and create their own desserts. The students will use what they have learned in Fundamentals of Baking and Intermediate Baking to further their education in Advanced Baking. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: HCM:100, HCM:182

HCM:199 Batch Cooking   2.0 cr.
This course is designed to further enhance students' training in quantity cooking. (19.8 Lec. Hrs. / 59.4 Lab Hrs.)

HCM:212 Industry Management   3.0 cr.
This course will expose students to theoretical concepts as well as practical applications to develop management skills related to the restaurant industry. The course is service-oriented with emphasis on staff and guest relations. (59.4 Lec. Hrs.)
Prerequisite: HCM:255

HCM:224 Artisan Breads   2.0 cr.
This course is designed to further enhance students' advanced level of baking breads. (79.2 Lab Hrs.)
Prerequisite: HCM:100 and HCM:116

HCM:233 Menu Planning and Nutrition 3.0 cr.
This course emphasizes basic food nutrients, USDA guidelines and USDA standards and their use in restaurant cooking. Students will calculate body energy requirements, and create a nutritionally sound menu using classical tools and preparation methods. (59.4 Lec. Hrs.)
Prerequisite: HCM:154

HCM:241 Menu Planning and Sales Promotion   3.0 cr.
In this course students will learn how various influences can impact menus and how to effectively target menus to specific needs. Menus from other cultures and menus for a variety of functions will be covered. Students will learn to prepare a cost-effective, seasonally-oriented and overall aesthetic menu. (59.4 Lec. Hrs.)
Prerequisite: HCM:154

HCM:255 Purchasing   3.0 cr.
This course will provide the student with a general understanding of purchasing in a professional food service setting and introduce the student to all aspects of obtaining goods: calculating quantities, costs, budgets, menu planning, choosing vendors, delivery schedules as well as storage needs. The student will apply culinary math calculations to analyze purchasing options. (59.4 Lec. Hrs.)
Prerequisite: HCM:180, HCM:265

HCM:265 Mathematics for Hospitality 3.0 cr.
This course will provide the student with a general understanding of mathematics application used in a professional food service setting. This course will then introduce the student to the mathematical knowledge needed in the restaurant and hospitality industry. (59.4 Lec. Hrs.)

HCM:280 Food Cost Accounting   3.0 cr.
This course teaches students to effectively calculate and control costs in foodservice establishments. Students are provided with the basic concepts to yield a profit in the kitchen and manage effective control over income and expenses in the restaurant industry. (59.4 Lec. Hrs.)

HCM:301 Beverage Control   3.0 cr.
This course will provide an in-depth study of wines, beverages, spirits and beers. Topics covered include purchasing, storage and developing a wine list that is compatible with a variety of foods. Students must be 21 years of age to taste alcoholic beverages. (59.4 Lec. Hrs.)

HCM:310 Hospitality Law   3.0 cr.
This course reviews the legal areas relevant to the hospitality industry including government regulations, food and liquor liability, guests' rights and safety and employer/employee rights and responsibilities. (59.4 Lec. Hrs.)
Prerequisite: RDG:045 or minimum reading placement score based on college assessment.

HCM:319 Introduction to Hospitality Field   3.0 cr.
This course is an overview of the hospitality industry. Students will examine and review the industry structure and developing trends in hotel management. Students will begin their awareness and exploration of the world of hospitality. (59.4 Lec. Hrs.)

HCM:328 Conversational Spanish for Hospitality   3.0 cr.
This course emphasizes conversation in Spanish using relevant contemporary situations. Situations to be presented will be determined following an assessment of student's background and needs. Listening and comprehension is highly emphasized. (59.4 Lec. Hrs.)

HCM:330 Hospitality Personnel Management   3.0 cr.
This course will assist students in developing skills in diverse working environments, documentation, analyzing and interviewing candidates for employment positions. (59.4 Lec. Hrs.)

HCM:331 Workplace Human Relations 3.0 cr.
This course will expose students to multiple areas of the human resources including real life case studies based on the hospitality industry assessments and history. (59.4 Lec. Hrs.)

HCM:335 Introduction to Event Planning   3.0 cr.
This course is an overview of the event management industry. Students will examine the industry and the developing trends in planning events. (59.4 Lec. Hrs.)

HCM:501 Culinary Practicum I   3.0 cr.

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Students will complete a total of nine practicums (6000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the work processes documented in the EICC's Patterns & Standards for the Occupation of Cook . A focus of this practicum is for the student to develop and practice the skills of a kitchen steward. (960 Practicum Hrs.)

HCM:502 Culinary Practicum II   3.0 cr.
Students will complete a total of nine practicums (6000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the work processes documented in the EICC's Patterns & Standards for the Occupation of Cook . A focus of this practicum is for the student to develop and practice the skills of a breakfast cook. (960 Practicum Hrs.)
Prerequisite: HCM:501

HCM:503 Culinary Practicum III   1.5 cr.
Students will complete a total of nine practicums (6000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the work processes documented in the EICC's Patterns & Standards for the Occupation of Cook . A focus of this practicum is for the student to develop and practice the skills of vegetable cookery. (480 Practicum Hrs.)
Prerequisite: HCM:502

HCM:504 Culinary Practicum IV   3.0 cr.
Students will complete a total of nine practicums (6000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the work processes documented in the EICC's Patterns & Standards for the Occupation of Cook. A focus of this practicum is for the student to develop and practice the skills of broiler/grill cook. (960 Practicum Hrs.)
Prerequisite: HCM:503

HCM:505 Culinary Practicum V   3.0 cr.
Students will complete a total of nine practicums (6,000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the American Culinary Federation's work processes. (960 Practicum Hrs.)
Prerequisite: HCM:504

HCM:506 Culinary Practicum VI   1.5 cr.
Students will complete a total of nine practicums (6,000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the American Culinary Federation's work processes. (480 Practicum Hrs.)
Prerequisite: HCM:505

HCM:507 Culinary Practicum VII   3.0 cr.
Students will complete a total of nine practicums (6,000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the American Culinary Federation's work processes. (960 Practicum Hrs.)
Prerequisite: HCM:506

HCM:508 Culinary Practicum VIII   3.0 cr.
Students will complete a total of nine practicums (6,000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the American Culinary Federation's work processes. (960 Practicum Hrs.)
Prerequisite: HCM:507

HCM:509 Culinary Practicum IX   1.5 cr.
Students will complete a total of nine practicums (6000 hours total) in addition to classroom study. Practicums provide the students with on-the-job training following the work processes documented in the EICC's Patterns & Standards for the Occupation of Cook. A focus of this practicum is for the student to develop and practice the skills of supervisor/lead cook. (480 Practicum Hrs.)
Prerequisite: HCM:508

HCM:589 Introduction to Restaurant Management   3.0 cr.
Students will develop fundamental skills necessary to begin a career in the restaurant field of hospitality. Topics include customer service, management and scheduling. General overviews of both front and back of the house will be covered. (59.4 Lec. Hrs.)

HCM:606 Hospitality Management   3.0 cr.
This course is designed to train students in a supervisory capacity. Topics of problem solving, team playing, delegating of duties and evaluating performances are included in this course. (59.4 Lec. Hrs.)
Prerequisite: HCM:319

HCM:931 Hospitality Internship   1.0 – 3.0 cr.
This course is an internship which provides students the opportunity to further develop and practice their hospitality skills in the industry. (79.2 - 237.6 Co-op Hrs.)

HCM:932 Internship   1.0 – 3.0 cr.
Through this internship course work students are trained in all aspects of event planning. Students will learn how to design, plan, market and stage an event. The hours of this course will be applied to the 297 hours of experience with an approved event planner, required to earn a certificate in Event Management. (79.2 - 237.6 Co-op Hrs.)
Prerequisite: HCM:335

HCM:957 Hospitality Lab I   2.0 cr.
This course will build on the foundation of customer service, front desk operations, catering and events planning, maintenance and guest services that will be emphasized at the advanced level in this course. (79.2 Lab Hrs.)

HCM:958 Hospitality Lab II   2.0 cr.
This course will build on the foundation of customer service, front desk operations, catering and events planning, maintenance and guest services that will be emphasized at the advanced level in this course. (79.2 Lab Hrs.)

HCM:959 Hospitality Lab III   3.0 cr.
This course will build on the foundation of customer service, front desk operations, catering and events planning, maintenance and guest services that will be emphasized at the advanced level in this course. (118.8 Lab Hrs.)

HCR:116 Domestic Heating   5.0 cr.
This course covers installation, troubleshooting, maintenance and repair of gas, fuel oil, electric furnaces, and heat pumps. This course will also cover temperature, humidity, air filtering, and air movement for a complete home conditioning system. (49.5 Lec. Hrs. / 99.0 Lab Hrs.)
Prerequisite: HCR:308, HCR:405
Corequisite: HCR:441, HCR:851, and MAT:104

**HCR:118 Domestic Heating/
Apprenticeship   3.0 cr.**
This course is an apprenticeship that covers installation, troubleshooting, maintaining, repairing of gas, fuel oil, electric furnaces and heat pumps. This course will also address temperature, humidity, air filtering and air movement for a complete home conditioning system. (59.4 Lec. Hrs.)

HCR:260 HVAC Trade Skills I   3.0 cr.
This course covers all types of tools pertaining to, but not restricted to, the HVAC profession. Included with the introduction of the student to the tool is the proper usage of these tools. The student will learn soldering and brazing, iron pipe cutting and threading, PVC solvent welding, all fittings, drilling, sawing and cutting sheet metal. (39.6 Lec. Hrs. / 59.4 Lab Hrs.)
Corequisite: COM:105**,** HCR:308, HCR:405, and HCR:851

HCR:261 HVAC Trade Skills II   3.0 cr.
This course covers all types of tools pertaining to, but not restricted to, the HVAC profession. Included with the introduction of the student to the tool is the proper usage of these tools. The student will learn how to manufacture sheet metal fittings with the tools available. Included with the hand tools will be the different power tools that are common with sheet metal shops everywhere. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: HCR:260

HCR:271 Advanced Domestic Heating and Air Conditioning   5.0 cr.
This course covers all residential and light commercial high-efficiency heating and air conditioning equipment. Included with the instruction will be a hands-on, competency-based lab with high-efficiency equipment. This course will cover all 80-90% furnaces. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)

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Prerequisite: HCR:116, HCR:308, HCR:405, and HCR:441
Corequisite: HCR:880

HCR:291 Commercial Systems   3.0 cr.
This course covers all types of commercial heating and cooling systems. Systems included are air-cooled and water-cooled air conditioning systems, cooling towers, water chillers, gas and electric heating systems for heating air and water, industrial heating systems including direct fired make up air equipment. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: HRC:116, HCR:441

**HCR:292 Commercial Systems/
Apprenticeship   2.0 cr.**
This apprenticeship course covers commercial HVAC systems. (39.6 Lec. Hrs.)

HCR:308 Refrigeration Fundamentals   5.0 cr.
This course covers temperature/pressure relationships, basic refrigeration systems, refrigerants, metering devices, tool identification/usage and safety, basic refrigeration components and their use, refrigeration applications, and methods of installation, maintenance, diagnosis and repair of refrigeration equipment.
(59.4 Lec. Hrs. / 79.2 Lab Hrs.)

**HCR:309 Refrigeration Fundamentals/
Apprenticeship   3.0 cr.**
This course covers temperature/pressure relationships, basic refrigeration systems, refrigerants, metering devices, tool identification/usage and safety, basic refrigeration components and their use, refrigeration applications and methods of installation, maintenance, diagnosis and repair of refrigeration equipment. (59.4 Lec. Hrs.)

**HCR:320 Light Commercial
Refrigeration   6.0 cr.**
This course addresses the use, installation, diagnosis and maintenance of all types of commercial refrigeration systems including, but not limited to, walk-in/reach-in coolers and freezers, ice machines, and refrigerant control devices. This course will also cover piping methods for refrigeration, compressors and pumps.
(79.2 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: HCR:271

**HCR:321 Light Commercial
Refrigeration/Apprenticeship   4.0 cr.**
This course covers all types of commercial refrigeration systems including, but not limited to, walk-in/reach-in coolers and freezers, ice machines and refrigerant control devices. This course will also cover piping methods for refrigeration and boiler systems, compressors and pumps. This course will cover the use, installation, diagnosis and mainte-

nance of the systems listed above. (79.2 Lec. Hrs.)

**HCR:405 Basic Electricity for HVAC
Tech   5.0 cr.**
This course covers those concepts and procedures that will enable the student to work successfully in the industry. Electrical principles, components, meters, schematics, and systems are discussed and applied to modern small and large-scale installations. Troubleshooting and servicing are presented in practical terms for ensuring immediate productivity. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)

**HCR:406 Basic Electricity/
Apprenticeship   3.0 cr.**
This course covers those concepts and procedures that will enable the student to work successfully in the Heating Ventilation and Air Conditioning (HVAC) industry. Electrical principles, components, meters, schematics and systems are discussed and applied to modern small- and large-scale installations. Troubleshooting and servicing are presented in practical terms for ensuring immediate productivity. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)

HCR:441 HVAC Controls and Circuitry   5.0 cr.
This course acquaints the student with the electrical controls and circuitry Associated with domestic oil, gas and electric heating systems. Hands-on laboratory experiences are correlated with the lecture to provide the student with realistically simulated work situations.
(59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: HCR:260, HCR:308, and HCR:405

**HCR:442 HVAC Controls and Circuitry/
Apprenticeship   3.0 cr.**
Acquaints the student with the electrical controls and circuitry Associated with domestic oil, gas and electric heating systems. Hands-on laboratory experiences are correlated with the lecture to provide the student with realistically simulated work situations. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)

HCR:525 Welding for HVAC/R Trades   3.0 cr.
This course is designed to acquaint the student with the methods and techniques used to weld in the HVAC/R trades field. Major topics of instruction include oxyacetylene welding, cutting, brazing, and basic metal arc welding (SMAW stick welding). Preparation and safety will also be emphasized. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: HCR:260

HCR:802 Control Systems for HVAC   4.0 cr.
This course covers electrical symbols, transformers, single-phase motors, three-phase motors, motor starters and electronic devices for the Heating, Ventilation, and Air Conditioning field (HVAC). Included with the instruction will be a hands-on, competency-based lab.
(59.4 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: HCR:441

**HCR:804 Controls for HVAC/
Apprenticeship   3.0 CR.**
This course is an apprenticeship course that addresses electrical symbols, transformers, single-phase motors, three-phase motors, motor

starters, and electronic devices for the heating, ventilation, and air conditioning (HVAC) field. Hands-on, competency-based labs are included with classroom instruction. (59.4 Lec. Hrs.)

**HCR:805 Environmental Controls and
Equipment   5.0 cr.**
This course covers laws and enforcement of the Clean Air Act, and the process and equipment used for reclamation and recycling of CFC's, HCFC's and HFC's. Transportation of these refrigerants and the certification test required for EPA section 608 will be discussed. Geothermal design, installation and service is also included in this course.
(59.4 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: HCR:116

**HCR:811 Computer Aided Control
System Design   3.0 cr.**
This course is designed to deliver instruction in the area of heating and cooling load calculations, airflow and air supply/return layout for residential systems. Extensive use of computers and Manual J based load calculation software will be used in training. This course also introduces students to boiler system design, system sizing and trouble shooting. (59.4 Lec. Hrs.)
Prerequisite: HCR:116, HCR:441

**HCR:812 Environmental Controls and
Equipment/Apprenticeship   3.0 cr.**
This course covers laws, and enforcement of the Clean Air Act, the process and equipment used for reclamation and recycling of CFC's, HCFC's and HFC's. Transportation of these refrigerants and certification test as required for EPA section 608 will be discussed. Geothermal design, installation and service will also be included in this course.
(59.4 Lec. Hrs.)

HCR:851 HVAC-R Industry Safety   2.0 cr.
This course provides an introduction to the U.S. Occupational Safety and Health Administration's (OSHA) regulations that pertain to protecting workers from exposure to occupational hazards. Students concentrate on researching, interpreting, summarizing, and applying the OSHA regulations. Students are introduced to a proactive philosophy of company compliance with OSHA regulations with an emphasis on using specific approaches to provide a safe and healthful HVAC/R work environment. The course also provides the students with an industry approved 10 hour OSHA certificate. (39.6 Lec. Hrs.)

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**HCR:853 HVAC/R Industry Safety/
Apprenticeship   2.0 CR.**
This apprenticeship course covers controls for HVAC/R industry safety standards. (39.6 Lec. Hrs.)

**HCR:860 HVAC Mgmt and Business
Fundamentals   3.0 cr.**
Topics of this course include HVAC residential heating and cooling load loss calculations, equipment sizing, duct sizing and layout, job estimating, billing, customer relations and actual comparison of gas and electric heat calculations. Airflow measurements and calculations will also be demonstrated. Small business forms will be discussed including basic payroll, job estimating, workers compensation and self-employed government forms. (59.4 Lec. Hrs.)
Prerequisite: HCR:116

**HCR:880 Industry Competency Exam
(ICE) – Residential   1.0 cr.**
This course is designed to prepare the student for the Residential Industry Competency Exam. Time is spent on each section of the exam, to ensure the student successfully passes the exam. The Residential Industry Competency Exam (ICE) is designed to test for knowledge of the fundamentals and basic skills necessary for entry-level residential technicians. (19.8 Lec. Hrs.)
Prerequisite: HCR:116, HCR:308, HCR:405, and HCR:441
Corequisite: HCR:271

HCR:885 Light Commercial Exam   1.0 cr.
This course is designed to prepare the student to successfully complete the Light Commercial Industry Competency Exam (LC-ICE). The LC-ICE is designed to test for knowledge of the fundamentals and basic skills needed for an entry-level commercial HVAC technician. This course will also review material for the North American Technician Excellence (NATE) Certification Core Exam. Completion of at least one of the exams is mandatory, either the LC-ICE or the NATE. Each exam requires an additional fee. (19.8 Lec. Hrs.)
Prerequisite: HCR:260, HCR:271, and HCR:880

**HIS:117 Western Civilization I: Ancient
and Medieval   3.0 cr.**
A survey course in Western Civilization from ancient history into the age of absolutism. The civilization components of religion, philosophy, literature, art, architecture and science are integrated into the political and social history of Europe, from our Mesopotamian and Egyptian origins to about 1450. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

**HIS:118 Western Civilization II: Early
Modern   3.0 cr.**
This is a survey course in Western Civilization from the Renaissance through the Age of Democratic Revolutions. The civilizational components of religion, philosophy, literature, art, science and architecture are integrated into the political and social history of Europe, from about 1450 to the end of the eighteenth century. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

**HIS:119 Western Civilization III: The
Modern Period   3.0 cr.**
This is a survey course in Western Civilization in the Modern Age, from the Age of Democratic Revolutions through the present day. The civilizational components of religion, philosophy, literature, art, science and architecture are integrated into the political and social history of Europe and its impact on the modern world. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

**HIS:120 Readings in Western
Civilization   1.0 – 2.0 cr.**
This course is designed to provide the student with additional reading in Western Civilization, allowing the student to obtain a greater understanding of the various problem areas in this discipline than can be attained by normal course work.
(39.6 - 79.2 Lab Hrs.)
Prerequisite: ENG:105 and HIS:117, HIS:118, or HIS:119

HIS:151 U.S. History to 1877   3.0 cr.
The study of political, cultural, social and economic developments in North American colonies and the United States from discovery through Reconstruction. Historical perspective and critical analysis are emphasized. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HIS:152 U.S. History since 1877   3.0 cr.
The study of the political, cultural, social, and economic developments from 1877 to the present. Historical perspective and critical analysis are emphasized. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HIS:211 Modern Asian History   3.0 cr.
Designed to assist the student in analyzing developments in the modern history of China, India and Japan. Emphasis is placed on the historical changes and continuity in the three major cultures of Asia including the impact of the West and methods of modernization. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.

HIS:224 Nazi Germany   3.0 cr.
This course is a survey of the origins and development of the National Socialist German Workers Party (NSDAP), the foreign policies of Adolph Hitler which led to WW II, and the implementation of the Holocaust. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HIS:231 Contemporary World Affairs   3.0 cr.
This course is designed to be a study of current events viewed in their historical context. Emphasis is placed on global politics, domestic issues, and cultural developments. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Cultural/Historical Perspectives Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HIS:257 African American History   3.0 cr.
Designed to assist the students in developing an understanding of institutional racism in an historical context. Emphasis is placed on slave culture, social role of newly freed blacks, and community changes in the Twentieth Century. (59.4 Lec. Hrs.)

**HIS:269 The 1960's and the Vietnam
War   3.0 cr.**
This course provides students with perspectives of the turbulent cultural, political, and social changes of the 1960s and early 1970s during the administrations of Kennedy, Johnson and Nixon, the causes and consequences of the Vietnam conflict, and the Watergate affair. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment, and HIS:152; or consent of instructor.

HIS:271 American Frontier History   3.0 cr.
The course is a study of European migration to North America, with a focus upon the interaction within settlements on the frontier. Emphasis is upon political, cultural, and economic developments in the North American Atlantic seaboard colonies, the trans-Appalachian region, and the trans-Mississippian regions. Comparative study is emphasized with the patterns of frontier culture in the Far West of the post-bellum period.
(59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HIS:272 Readings in U.S. History   1.0 – 2.0 cr.
Designed to provide the student with additional readings in United States history, allowing the student to obtain a greater understanding of the various problem areas of this discipline that can be attained by normal course work.
(39.6 - 79.2 Lab Hrs.)
Prerequisite: HIS:151 or HIS:152

HIS:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human

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condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

HIT:120 Pharmacology for HIT   1.0 cr.
This course provides the student with an introduction to common drugs and drug therapies as they relate to the field of health information technology. It includes accurate identification of drug name, spelling, and indications for usage. (19.8 Lec. Hrs.)

**HIT:139 Math for Health Care
Professionals   3.0 cr.**
Designed for Allied Health Care profession majors. The course covers general development of skills involving computations of fractions, decimals, percents, ratios, proportions, basic algebra equations, mean, median, and mode. Builds critical thinking skills for success in occupations that will later require algebra skills in understanding dosage calculations and conversions between metric, apothecary, household and other systems of measurement. Advanced topics will include: infection rate computations and survival statistics. The student will be introduced to data dispersion interpretation and analysis involving range, variance, and standard deviation. Applied topics such as patient accounts, Medicare and non-Medicare insurance billing, payroll, and computing FTEs in healthcare staffing will help build the applied math skills needed in healthcare supervision and management. (59.4 Lec. Hrs.)

HIT:170 Principles of Human Disease   3.0 cr.
This course will introduce Cancer Information Management (CIM) and Health Information Technology (HIT) students to the principles of human disease. This course will also introduce students to therapies for management of pain, diagnostic methods, testing, and procedures. (59.4 Lec. Hrs.)
Prerequisite: HSC:113

HIT:250 Coding I   3.0 cr.
This course is the first of a three-part series and it provides a foundation in basic diagnostic coding and classification systems in a variety of health care settings. Emphasis is placed on International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) coding conventions, rules, methodology, sequencing, data sets, documentation requirements, quality control and coding resources. Practical application of coding inpatient and outpatient records with ICD-9-CM classification system will be studied utilizing workbooks and

various handouts. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: BIO:168, HIT:120, and HSC:113

HIT:251 Coding II   3.0 cr.
This course is a continuation of HIT:250 Coding I. Students are introduced to Current Procedural Terminology, 4th Ed. (CPT-4) as it relates to physician's offices/hospital Outpatient Prospective Payment System (OPPS) and Ambulatory Payment System (APCs). Students will be working with actual medical records in the classroom lab. Emphasis is placed on practical application of coding outpatient/ambulatory records.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

HIT:252 Coding III   3.0 cr.
This course is a continuation of a three-part coding sequence. It is designed to provide students the opportunity to become proficient coders. Students will apply coding guidelines, rules, and regulations. Case scenarios and actual medical records will be used to code ICD-9-CM diagnoses and CPT-4 procedures. Students will assign appropriate codes through chart documentation review and analysis, assign diagnosis-related groups (DRGs) and ambulatory payment classifications (APCs) utilizing 3M coding and reimbursement software. Students will learn valid reimbursement optimization techniques. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: HIT:250, HIT:251, HIT:270

HIT:270 ICD-10 Procedural Coding   2.0 cr.
This course introduces students to the use of the ICD-10-PCS classification system with application of coding scenarios. ICD-10-PCS also will apply use of ICD-10-PCS coding for data collection and billing procedures. ICD-10-PCS is the procedural classification system developed by the Centers for Medicare & Medicaid Services (CMS) for use in the U.S. for inpatient hospital settings ONLY.
(39.6 Lec. Hrs.)
Prerequisite: BIO:163, HIT:120, and HSC:113

**HIT:312 Health Informatics and
Information Management Systems   3.0 cr.**
This course should enable the student to describe the different types of code sets and classification systems used in healthcare. It should also enable the student to understand the basic steps in implementing an electronic health record and using the software Access for data collection.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

HIT:370 Health Records in Acute Care   3.0 cr.
This course introduces students to the Health Information Management profession. Topics covered include acute care health record content and usage, quantitative and qualitative analysis, record format, control, storage, retention policies, and filing and numbering systems.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

**HIT:380 Health Records in Alternate
Care Settings   3.0 cr.**
This course is a continuation of HIT:370 Health Records in Acute Care. Students will take a look at the entire continuum of health care delivery systems. Alternative care settings including ambulatory care, long-term care, home health, hospice and mental health will be studied along with their respective licensing and accrediting standards, documentation issues, and reimbursement methodologies. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: HIT:370

**HIT:400 Clinical Documentation
Improvement   2.0 cr.**
This course will introduce health information management professionals to the challenge of detailed clinical documentation in the electronic health record as the healthcare industry transitions to ICD-10-CM. The course will focus on the clinical terminologies needed to assign accurate coding which avoids potential reimbursement losses. Facilitation and coordination between the medical coding department and clinicians by means of the standard physician query process will be examined. Clinical Documentation Improvement (CDI) is not about how to code in ICD-10 but rather knowing what to look for in medical records as well as how to ask for clarification provided by physicians. (39.6 Lec. Hrs.)
Prerequisite: HIT:250

HIT:422 Medico-Legal Ethics   3.0 cr.
This course is an introduction to the concepts of medical law and ethics for allied health care practitioners. Topics including criminal and civil acts, contracts, negligence and ethical concepts as they relate to the medical profession, health information management, Health Insurance & Portability Accountability Act (HIPAA) and other health care legislative rulings are discussed. (59.4 Lec. Hrs.)
Prerequisite: HIT:370 with a minimum grade of C or better.

HIT:440 Quality Management   3.0 cr.
This course provides an overview of supervision and management activities in a health information department. Focus is placed on a team approach toward the achievement of both departmental and organizational goals. Students will participate in problem-solving activities, committee activities and development of technical writing skills. Emphasis is placed on activities relating to planning, organizing, directing, controlling, and budgeting in an HIM department. Additional topics include performance improvement monitors, utilization management, risk management principles, and QA (Quality Assurance) activities pertaining to JCAHO (Joint Commission on Accreditation of Healthcare Organizations) accreditation survey.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

HIT:451 Allied Health Statistics   3.0 cr.
This course covers maintenance, compilation, analysis and presentation of health care statistics. Topics include basic statistical principles, morbidity, mortality, and commonly computed hospital rates; uniform reporting requirements; and selection and

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construction of data displays. Upon completion, students should be able to calculate morbidity, mortality, and commonly computed hospital rates, comply with uniform reporting requirements, analyze and present statistical data. (59.4 Lec. Hrs.)

HIT:485 Medical Billing and Reimbursement Systems   3.0 cr.
This course is designed to prepare students for jobs in medical office and hospital billing departments. Comprehensive coverage of every stage of the medical insurance claim cycle will be studied in a logical sequence. Understand of basic revenue cycle management processes will be able to be performed at the completion of this course. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

HIT:596 HIT Practicum I   2.0 cr.
This course is a supervised 99-hour professional practice experience designed to introduce the student to the basic daily operations and functions of a health information department. The student will utilize knowledge and skills learned in the classroom, observe, and when appropriate, practice hands-on applications under the supervision of health information department staff. Students will be required to meet certain goals and objectives, submit a written report of the learning experience and undergo a professional and technical skills evaluation. Although the acute care setting is a common setting for Practicum I, any healthcare setting may be appropriate. Site to be arranged by the instructor. (118.8 Clinical Hrs.)
Prerequisite: CSC:110, HIT:370, and HSC:113

HIT:598 HIT Practicum II   2.0 cr.
This is a supervised professional practice experience designed to give the student exposure to advanced level functions in various healthcare settings. Coding, transcribing, auditing, billing and QI activities will be emphasized. The student will be required to meet written goals and objectives, submit a written report on the learning experience and undergo a professional and technical skills evaluation. Site to be arranged by the instructor. (118.8 Clinical Hrs.)
Prerequisite: Complete all first, second, summer and third term HIT courses with a grade of D- or better; or consent of instructor.

HIT:601 Medical Transcription   2.0 cr.
This course provides opportunities to practice and develop basic skills in the use of transcription equipment, gain familiarity with common formats of medical reports and common medical terminologies. Reference sources are discussed and students receive laboratory experience in transcribing medical records and forms, case histories, consultation reports, operative records, and discharge summaries dictated by real physicians and encompassing all body systems.

(19.8 Lec. Hrs. / 39.6 Lab Hrs.)

HIT:620 Advanced Medical Transcription   1.0 cr.
This course is a continuation of HIT 601: Medical Transcription. In-depth medical reports dictated by real physicians will be provided including radiology, pathology, orthopedic, cardiovascular and gastrointestinal operative reports. Emphasis will be placed on accuracy of spelling and format. The SUM Program software for advanced students will be used. (39.6 Lab Hrs.)
Prerequisite: HIT:601

HIT:946 Seminar   1.0 cr.
This is a capstone course designed to provide a comprehensive review of professional competencies, preparation for the RHIT certification exam, preparation of professional resume, and job search tools. This course should be taken the last semester of the HIT program. (19.8 Lec. Hrs.)

HON:926 Honors Seminar   3.0 cr.
Required for the completion of SCC's Honors Program, this course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. It can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HSC:102 Introduction to Health Occupations   4.5 cr.
This course will provide learning opportunities for students interested in obtaining skills in the health care field. Those interested in the allied health medical field will receive experience from trained allied health educational professionals in various lab departments. Through observation and practical lab experiences, students will be guided as they think about career choices. Students will attend class in a lab setting and will be assigned a hands-on activity. The following areas will be scheduled for lab rotations in the Allied Health Fields: Radiology, END, Surgical Technology, HIT, Dental Assisting and Cancer Information Management. (34.65 Lec. Hrs. / 108.9 Lab Hrs.)

HSC:105 Introduction to Health Occupations   1.0 cr.
This course will provide learning opportunities for students interested in obtaining skills in the health care field. Those interested in the allied health medical field will receive experience from trained allied health educational professionals in

various lab departments. Through observation and practical lab experiences, students will be guided as they think about career choices. Students will attend class in a lab setting and will be assigned a hands-on activity. The following areas will be scheduled for lab rotations in the Allied Health Fields: Radiology, END, Surgical Technology, HIT, Dental Assisting and Cancer Information Management. (39.6 Lab Hrs.)

HSC:106 Contemporary Health Issues   3.0 cr.
Exploration of areas of human health. Topics include emotional health, chemical alteration of behavior, human sexuality, personal health care, disease, and health in society. (59.4 Lec. Hrs.)

HSC:113 Medical Terminology   2.0 cr.
This course enables students to recognize and define medical terminology as well as identify medical words from Greek and Latin prefixes, suffixes, word roots and combining forms. This course is offered in three formats: classroom instruction, online instruction, or as an independent study. (79.2 Lab Hrs.)

HSC:125 Survey of Anatomy for Allied Health   2.0 cr.
Survey of Anatomy for Allied Health is a beginning-level study of the structure, organization, and functions of the major organ systems of the human body. (39.6 Lec. Hrs.)
Corequisite: HSC:113

HSC:172 Nurse Aide   3.0 cr.
This 75-hour course meets the training of The Omnibus Budget Reconciliation Act of 1987 (OBRA) for aides working in nursing facilities (NF) and skilled nursing facilities (SNF). Emphasizes the achieving of a basic level of knowledge and demonstrating skills to provide safe, effective resident/client care. Students must be 16 years of age to attend clinical.
(49.5 Lec. Hrs. / 9.9 Lab Hrs. / 14.85 Clinical Hrs.)

HSE:100 Occupational Safety   3.0 cr.
This course provides an introduction to the U.S. Occupational Safety and Health Administration's (OSHA) regulations that pertain to protecting workers from exposure to occupational hazards. Students concentrate on researching, interpreting, summarizing, and applying the OSHA regulations. Students are introduced to a proactive philosophy of company compliance with OSHA regulations, with an emphasis on using specific approaches to providing a safe and healthful work environment. Additionally, through activities and exercises, students are introduced to procedures for conducting a chemical inventory, interpreting Material Safety Data Sheets (MSDSs), developing a written Hazard Communication (HAZCOM) program, and developing an effective HAZCOM training program. (59.4 Lec. Hrs.)

HSE:105 Characteristics of Hazardous Materials   3.0 cr.
This course provides instruction in learning to recognize the physical and chemical characteristics of hazardous materials classes and how chemicals within those classes can harm humans

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and the environment. By applying basic chemistry, students will Associate chemical names with particular health and safety hazards. Additionally, students will identify common trade names and/or synonyms for the chemicals. (59.4 Lec. Hrs.)

HSE:110 Industrial Processes 3.0 cr.
This course is a nontechnical introduction to common general manufacturing processes that involve hazardous materials and wastes, with emphases on: waste minimization/pollution prevention (P2) strategies, waste treatment methods, and common processes within facilities. Each student completes a major project in which he/she investigates and reports on a specific industry, especially its basic processes, materials flow, worker health and safety exposures, and waste reduction issues. (59.4 Lec. Hrs.)

HSE:200 Waste and Remediation 3.0 cr.
This course provides a study of the U.S. Environmental Protection Agency (EPA) regulations pertaining to hazardous waste management. There is an emphasis on the requirements of the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Students learn the steps in managing hazardous wastes from cradle-to-grave including reading, interpreting, and applying sections from the Code of Federal Regulations. (59.4 Lec. Hrs.)

HSE:205 Air and Water Quality 3.0 cr.
This course provides a detailed study of the U.S. Environmental Protection Agency (EPA) regulations pertaining to compliance with the Clean Air Act Amendments of 1990 and the Clean Water Act's National Pollutant Discharge Elimination System. Students learn to support professional personnel responsible for complying with the environmental regulations for air emissions and waste water. This support includes reading, interpreting, and applying sections from the Code of Federal Regulations. (59.4 Lec. Hrs.)
Prerequisite: HSE:200

HSE:210 Contingency Planning/Incident Management 3.0 cr.
This course provides instruction on how to develop an emergency response contingency plan for a facility or community. Students learn that the steps for emergency preparedness include analyzing the hazards, writing and implementing the contingency plans, training employees for an emergency, and evaluating the effectiveness of the contingency plan. Students will develop and implement

the Incident Management System through both practical and theoretical case scenarios. (59.4 Lec. Hrs.)
Prerequisite: HSE:280

HSE:225 Legal Aspects of Occupational Safety and Health 3.0 cr.
This course provides a study of legal implications of legislation as it applies to health and safety in the workplace. Students concentrate on regulatory, common, and administrative law; mandatory and voluntary compliance; applicable government agencies and their roles; and Occupational Safety and Health Administration (OSHA) regulations. Additionally, students are introduced to the professional code of ethics of a safety person. (59.4 Lec. Hrs.)
Prerequisite: HSE:205, HSE:230

HSE:230 Transportation of Hazardous Materials 3.0 cr.
This course provides a detailed study of the U.S. Department of Transportation (DOT) Hazardous Materials Regulations. Additionally, students will be introduced to certain Environmental Protection Agency (EPA) regulations pertinent to hazardous materials transportation. Students learn how a hazardous materials technician or an environmental health and safety technician may support professional personnel responsible for compliance with the environmental regulations for transportation of hazardous materials. Emphasis is placed on identifying, interpreting, and applying sections from the Code of Federal Regulations (CFR). (59.4 Lec. Hrs.)
Prerequisite: HSE:100

HSE:270 Sampling and Monitoring Procedures 4.0 cr.
This course introduces the student to a variety of sampling procedures used in industry and emergency response. Topics to be covered include: sampling and monitoring devices, industrial hygiene monitoring, water and waste stream monitoring, outside air sampling, soil sampling, and radiation sampling. Emphasis will be placed on how to collect and preserve representative samples, interpret laboratory results, and comply with relevant federal regulations. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: HSE:110

HSE:280 Hazardous Materials Health Effects 3.0 cr.
This course provides a review of human health effects from various exposures to chemicals. Topics covered include determination of risk factors, routes of entry of hazardous materials and their effects on target organs, acute and chronic effects, and control measures. (59.4 Lec. Hrs.)
Prerequisite: HSE:105

HSE:285 Industrial Hygiene 3.0 cr.

This course will provide the necessary information to the students to allow them to establish and maintain a basic industrial hygiene program. The student will learn basic environmental sampling concepts for the collection and analysis of data to identify problems, and develop methods and procedures to control or eliminate occupational exposures in the workplace. The course will cover physical and chemical exposures in the workplace. (59.4 Lec. Hrs.)
Prerequisite: HSE:270

HUM:105 Working in America 3.0 cr.
This is a humanities course which has as its theme the interplay of work and the individual. It focuses on technological society and how the humanities can interpret and reflect upon that society. On the one hand, the course recognizes that scientific and technological literacy remains an essential aspect of what it means to be an educated person in the twenty-first century. On the other hand, the course acknowledges that, regardless of culture, race, gender, age, and other factors, there are basic human characteristics of responding to new situations. It focuses on the idea that the shared experiences of living in a body, having the conscious awareness that we do, being able to communicate that knowledge and share the experience of life with others—and knowing that bodies don't live forever are the same simply by virtue of our being born human. (59.4 Lec. Hrs.)

HUM:110 Changes and Choices 3.0 cr.
This course offers students an opportunity to explore ways in which the Humanities are integral in their personal and work lives, especially as they face change and make decisions. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HUM:135 Humanities of the Early World 3.0 cr.
This course surveys the major cultural achievements and ideas of Western Civilization from Ancient Greece and Rome through the Middle Ages. Art, architecture, music, literature, and drama are presented as they reflect the world view of each historical era. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.

HUM:136 Humanities of the Renaissance 3.0 cr.
This course surveys the major cultural achievements and ideas of Western Civilization from the Renaissance through the 18th Century. Art, architecture, music, literature, and drama are presented as they reflect the world view of each historical era. (59.4 Lec. Hrs.)

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This course satisfies a general education requirement in the Arts and Humanities Area.

HUM:137 Humanities of the Modern World   3.0 cr.
This course surveys the major cultural achievements and ideas of Western civilization from the 19th to the 21st Century. Art, architecture, music, literature, and drama are presented as they reflect the world view of each historical era. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.

HUM:183 Living with Space, Time and Technology   3.0 cr.
This course will explore human values and individual beliefs within a constantly changing environment, community relationships, technological networks, the ethical dimensions of work and a meaningful personal life-style. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HUM:287 Leadership Development Studies   3.0 cr.
This course is designed to provide a basic understanding of leadership and group dynamics theory and to assist the student in developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership, and an awareness of one's style of leadership. The course will integrate readings from the humanities, classic works of literature and experiential learning exercises. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

HUM:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

HUM:924 Honors Project   1.0 cr.
This course is designed to integrate academic study and community service. By volunteering at least 33 hours at a non-profit, service organization, students will have an opportunity to exercise civic responsibility and deepen their understanding of the content in their majors. Students will learn and develop through active participation in organized service experiences that meet our community's needs. (39.6 Lab Hrs.)
Prerequisite: HUM:926 or HUM:927

HUM:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

IND:134 Print Reading   2.0 cr.
This course presents an overview of methods used in presenting and interpreting a variety of industrial drawings and prints. This course is designed to provide the necessary skills to read and interpret symbols commonly found on industrial drawings and prints. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

IND:136 Process Control I   3.0 cr.
This course introduces the student to the basic concepts, terminology and instruments used in open-loop and closed-loop process control systems. Pressure, temperature, flow, level and analytical processes will be covered.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELT:312

IND:137 Process Control II   3.0 cr.
This course is a continuation of Process Control I. The students will learn to read and interpret process and instrumentation drawings (P&IDs), perform instrument calibration and properly tune process controllers. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: IND:136

IND:143 Motors and Drives   3.0 cr.
This course will introduce students to the fundamentals of industrial motor control and power electronics. The topics covered include AC and DC motors, thyristors, variable frequency drives, DC motor control and power distribution. Laboratory assignments help to illustrate the subjects discussed in the classroom.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELE:217

IND:148 Mechanisms   3.0 cr.
The application of principles and practical problem solving involving hydraulics, pneumatics, cams, gears, and gear trains, belt drives and other industrial devices. Topics include hydraulic and pneumatic theory, drive train component alignment, and motion concepts. Laboratory will enhance the student's understanding.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: IND:149

IND:149 Applied Mechanics   3.0 cr.
This course is designed to introduce the fundamentals of mechanics, and to build confidence in the students in applying mechanics principles to solve problems. Having successfully completed this course the student will be able to: explain the fundamental principles of static mechanics; solve static systems; distinguish between stress, strain, force, work, energy and power; describe Newton's Laws of motion and solve applied problems; solve simple dynamics and kinematics problems.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:743

IND:158 Sheet Metal Fabrication   3.0 cr.
This course provides a study of some of the more common problems encountered during installation and modifications, particularly the mechanical and field fabrication problems involved in duct work, piping and electrical work. Introduction to the use of sheet metal tools, edges seams and locks.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: IND:134

IND:159 Bearings and Lubrication   2.0 cr.
This course provides a study of friction, force and lubrication of industrial equipment; preventive maintenance, troubleshooting and replacement of bearings. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

IND:188 Mechatronic Applications   3.0 cr.
In this course robotic systems are studied in detail along with work cell designs. Common robotic applications are studied along with robot terminology. In the lab students will interface between systems gaining understanding of how different technologies interact.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ELT:123, IND:136

IND:222 Geometric Tolerancing and Dimensioning   3.0 cr.
This course introduces the student to the fundamentals of geometric tolerancing and dimensioning concepts as adopted by the American National Standards Institute (ANSI) and published by the American Society of Mechanical Engineers for engineering and related documentation.
(59.4 Lec. Hrs.)

INF:250 eHealth Standards and Clinical Terminologies   3.0 cr.
This course introduces the standards, terminologies and structured languages used in health information management. Health informatics is the information science concerned with the management of all aspects of health data and information through the application of computers and computer technology. (59.4 Lec. Hrs.)
Prerequisite: CSC:110

INF:255 eHealth Data Management   3.0 cr.
This course will introduce the implementation and transfer of health resources and health care by electronic means. How health information is delivered to health professionals and consumers through internet and telecommunications as well as how data is analyzed within a healthcare delivery system. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:110

INF:260 eHealth Information Security and Privacy   3.0 cr.
This course will discuss eHealth privacy, security and the laws that regulate eHealth as well as an update on current laws and regulations in regards to Health Information. (59.4 Lec. Hrs.)
Prerequisite: CSC:110

INF:265 Applied System Analysis and Design in eHealth   3.0 cr.
This course will discuss the implementation and

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importance of health information systems and technology. Understand systems management as well as data analysis within a health information system. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:110

INF:270 Health Informatics Practicum   2.0 cr.
This is a supervised 96 hour professional practice experience designed to give the student exposure to advance level functions in various healthcare and health IT settings. (118.8 Clinical Hrs.)
Prerequisite: INF:250, INF:255, INF:260, and INF:265

ITP:121 Introduction to Interpreting I   4.0 cr.
This course introduces students to the historical and theoretical aspects of sign language interpreting, as well as concepts of professional ethical decision making skills. This course will cover basic interpreting skills and techniques with opportunity for application and practice in both American Sign Language (ASL) and English.(79.2 Lec. Hrs.)
Prerequisite: ASL:251

ITP:124 Introduction to Interpreting II   3.0 cr.
This course gives students a fundamental background in the theoretical and practical aspects of interpretation, focusing on skill development in the classroom on these three levels, prepared or rehearsed, simultaneous, and consecutive. This course also guides students in achieving ethical competence and professionalism. (59.4 Lec. Hrs.)
Prerequisite: ASL:281, ITP:121

ITP:129 Deaf Studies   4.0 cr.
This course introduces students to the American Deaf experience in the United States, including linguistics, sociology, audiology, and psychology. The course exposes students to the historical views of deafness and deaf education. Students will be made aware of the contributions and contemporary lives of deaf people in America. (79.2 Lec. Hrs.)
Prerequisite: Ability to enroll in ENG:105

ITP:131 Social Aspects of Deaf Culture 4.0 cr.
This course examines the various cultural aspects of the deaf community. It presents the interrelationship of language and culture along with a study of socialization, norms, and values. (79.2 Lec. Hrs.)
Prerequisite: Ability to enroll in ENG:105

ITP:135 Introduction to Language   3.0 cr.
This course is designed to introduce students to the linguistic features of language. Students will first learn the characteristics common to all languages and the basic descriptive tools of linguistics. Origins, properties, and word formation systems and syntactic systems as they apply to all languages, but more esepecially to English and ASL, will be covered. This will prepare the students to apply this information to the study of ASL as a language and its unique linguistic properties. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ITP:141

ITP:141 English Vocabulary / Grammar for Interpreters   4.0 cr.
This course focuses on developing and expanding student competence in vocabulary comprehension and grammatical aspects of English. Coursework assists students in the improvement of their cognitive processing of English to prepare students for interpreting tasks. (79.2 Lec. Hrs.)

ITP:142 Comparative Discourse Analysis   3.0 cr.
This course is designed to introduce students to discourse analysis theory and practice. Students will develop strategies to analyze texts in ASL and English which will improve their understanding of how context, identity and culture impact communication. (59.4 Lec. Hrs.)

ITP:209 Interpreting Skills Lab   1.0 cr.
This course provides students with an opportunity to practice interpreting skills in a safe environment under instructional supervision. Students will practice interpreting in a variety of simulated settings with immediate feedback from the instructor. Students will also increase their ability to self-evaluate their own interpreting process and product through extensive analysis of their work. (39.6 Lab Hrs.)
Prerequisite: ASL:251 with a minimum grade of C.

ITP:230 Transliteration I   4.0 cr.
This course examines the methodology of transliteration used to produce a signed message in English word order for use in educational and technical situations. Focus will be on the manually coded systems of Conceptually Accurate Signed English (CASE) and Signing Exact English (SEE II). (79.2 Lec. Hrs.)
Prerequisite: ITP:121

ITP:231 Transliteration II   3.0 cr.
Transliteration II will continue to develop the skills begun in Transliteration I. Emphasis will be placed on speed, conceptual accuracy and skill within the English-based sign systems. This class will focus on the professional skills necessary in educational interpreting situations. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: ITP:230

ITP:253 Practical Issues   3.0 cr.
This course will focus on specialty areas of interpreting. Class discussion and group practice will include ethical considerations, specialized vocabulary, and theories of team interpreting. (59.4 Lec. Hrs.)
Prerequisite: ITP:121 with a minimum grade of C.

ITP:256 Interpreter Certification Preparation   2.0 cr.
This course offers an overview of various interpreter tests used to obtain professional licensure in Iowa and Illinois. The process of obtaining licensure and maintaining certification and licensure will also be studied. Students will gain experience in interpreting skills evaluation to prepare for taking certification tests. (39.6 Lec. Hrs.)
Prerequisite: ASL:296, ITP:124

ITP:941 Practicum   2.0 cr.
Practicum consists of field experience that provides advanced training for interpreting students giving them the opportunity to apply learned concepts and skills in actual interpreting situations with professional supervision. This on-the-job experience is the final phase of training prior to entrance into the field of professional interpreting. (158.4 Co-op Hrs.)
Prerequisite: ITP:124, ITP:230

JOU:120 Beginning Newswriting   3.0 cr.
This course presents the fundamentals of newswriting: copy editing, AP Style, spelling and vocabulary, writing leads, basic news stories, feature news stories, speech and meeting coverage, and public affairs reporting. (59.4 Lec. Hrs.)

JOU:123 Intermediate Newswriting   3.0 cr.
This course helps students refine newswriting skills by an introduction to more complex newswriting experiences such as interviews, feature stories, sports-writing and interpretive writing. (59.4 Lec. Hrs.)
Prerequisite: JOU:120

JOU:172 Intermediate Photography   3.0 cr.
This course acquaints the student with photography and darkroom techniques with particular emphasis on control. Various techniques will be demonstrated and the student will experience the use of the necessary chemicals, papers, and films to achieve negative and print excellence. (59.4 Lec. Hrs.)

JOU:932 Journalism Internship   3.0 cr.
On-site experience in a community news organization is provided and is supervised by a professional journalist. Practical experience will be provided in all aspects of working at a daily news organization and includes gathering, processing and editing of the news. The student will learn to maintain a daily beat, write news articles, and observe operations of the news organization. (237.6 Co-op Hrs.)
Prerequisite: JOU:123

JOU:941 Practicum   1.0 – 3.0 cr.
This course provides hands-on experience in the writing, editing, producing, circulating and advertising of student publications. The student may have the option to gain experience in the field of broadcasting, particularly television. Emphasis in the area includes writing for radio and television, the aspects of producing, directing, working with television cameras, videotape and cable television. Up to six hours credit is given in either print or broadcast. (79.2 – 237.6 Co-op Hrs.)

LIT:101 Introduction to Literature   3.0 cr.
This course offers an introduction to the major literary genres: the short story, poetry, drama and the novel. Emphasis is on learning the basic elements of each genre and applying those elements as tools of literary interpretation through critical

reading and writing. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:105 or ENG:107

LIT:110 American Literature to Mid:1800's **3.0 cr.**
This course provides a study of the important characteristics and transitions in American literature. Emphasis is given to the works of selected poets and prose writers from 1607 to 1865. (59.4 Lec. Hrs.)
Prerequisite: ENG:105 or ENG:107

LIT:111 American Literature since Mid:1800's **3.0 cr.**
This course introduces literary works in four genres (the short story, poetry, drama, and the novel) by American authors from 1865 to the present, with a focus on themes and formal characteristics that define American literature. Emphasis is on learning the basic elements of each genre and applying those elements as tools of literary interpretation through critical reading and writing. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:105 or ENG:107

LIT:130 African American Literature **3.0 cr.**
This course is a survey of African American literature beginning in the 18th century and continuing into the present. Genres will include the short story, poetry, the novel, and drama. Emphasis is placed on formal, thematic, historical, cultural, and critical elements of African American literature, as well as the relationship between African American literature and the human condition. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:105 or ENG:107

LIT:135 Film as Literature **3.0 cr.**
This course examines the motion picture as a literary form. The motion picture is compared to other narrative literature, such as the novel, the short story, the epic poem, and the memoir. Special emphasis is placed on how written narratives are adapted into motion picture narratives. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.

LIT:161 The Short Story **3.0 cr.**
This course is an examination of the literary history and boundaries of the short story, its particular components in comparison with other kinds of fiction and short writings (e.g. novels, fairy tales, oral histories), and its subgenres (e.g. horror, detective, science fiction). (59.4 Lec. Hrs.)
Prerequisite: ENG:105 or ENG:107

LIT:180 Mythology **3.0 cr.**
This course emphasizes the historical development and the craft of mythology through the study of major, representative works from ancient to modern day. Students will explore how mythology contributes to an understanding of the world and universe, and critically examine its pertinence to contemporary society. (59.4 Lec. Hrs.)

Prerequisite: ENG:105 or ENG:107

LIT:185 Contemporary Literature **3.0 cr.**
This course focuses on works written since World War II. The effects of culture, environment and mass media on literature and its four major genres (short fiction, poetry, novel and drama) are explored in detail through critical reading and writing. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:105 or ENG:107

LIT:195 Nature of Evil in Literature **3.0 cr.**
This course is a study of the social idea of evil as it is reflected in literature through the centures (from Paradise Lost to the Exorcist). (59.4 Lec. Hrs.)
Prerequisite: ENG:105 or ENG:107

LIT:200 Studies in Literary Form **3.0 cr.**
This literature appreciation course offers an introduction to the major literary genres: the short story, poetry, drama and the novel. Emphasis is on developing an appreciation of literature through learning the basic elements of each genre and applying those elements as tools of literary interpretation. (59.4 Lec. Hrs.)
Prerequisite: ENG:105 or ENG:107

LIT:210 The Graphic Novel **3.0 cr.**
This course will study the evolution of the graphic novel, from the "funnies" to a respected form of literature. Literary techniques and theories will be used to analyze the multiple genres of the graphic novel (adventure, fantasy, fiction and non-fiction, horror, mystery, horror, sci-fi, and superhero). Special emphasis will be placed on image reading, exploring visual language and rhetoric — an important 21st Century skill. (59.4 Lec. Hrs.)
Prerequisite: ENG:105 or ENG:107

LIT:923 Honors Seminar **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

LIT:928 Independent Study **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs.)

LIT:943 Readings **1.0 – 3.0 cr.**
This course is designed to provide the student with additional readings in literature, allowing that student to obtain a greater understanding of the literature discipline through combining texts with

other educational opportunities. (19.8 – 59.4 Lec. Hrs.)

MAP:136 Medical Office Management **5.0 cr.**
This course emphasizes administrative responsibilities in a medical office. Students will use critical thinking skills to incorporate knowledge in the performance of written communications, records management, bookkeeping, banking, emergency preparedness and protective practices. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)

MAP:137 Medical Lab Procedures **5.0 cr.**
This course is an introduction to the medical laboratory. Students will use critical thinking skills to incorporate cognitive knowledge in the performance of obtaining specimens and performing Clinical Laboratory Improvement Amendments (CLIA) waived testing. The student will also know and adhere to protective practices for personal and patient safety. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MAP:136, MAP:138

MAP:138 Medical Office Procedures **5.0 cr.**
This course is an introduction to medical office clinical skills. Students will use critical thinking skills to incorporate knowledge in the performance of patient communication, obtaining vitals, measurements, vision and hearing screening exams, pulmonary function testing, patient preparation, assisting the physician, patient histories, medical record documentation, medical and surgical asepsis, safety, sterilization techniques and minor surgical procedures.
(59.4 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MAP:136

MAP:149 Exam Preparation **2.0 cr.**
This course emphasizes group discussion and individual conferences on clinical experiences. The course includes preparation for the Medical Assistant certification exam through the use of practice tests. This course should be taken the last semester of the MA program. (39.6 Lec. Hrs.)

MAP:512 Medical Assisting Pharmacology **2.0 cr.**
This course provides a basic background in the classification and understanding of drugs and their sources, uses and legal implications. This course will also provide discussion on the characteristics of typical drugs, side effects, precautions, interactions, and patient education of each category. (39.6 Lec. Hrs.)

MAP:614 Medical Assistant Externship **4.0 cr.**
This course provides students an opportunity to perform various clinical and office procedures under supervision. (237.6 Clinical Hrs.)
Prerequisite: MAP:136, MAP:138

MAT:050 Supplement to College Algebra **1.0 cr.**
This course serves as co-requisite support for MAT121 College Algebra. Topics will parallel those

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being studied in MAT121 integrating developmental skills right before they are needed in the College Algebra course. This course provides students a path to finish their developmental math coursework and MAT121 in one semester. In addition, for those students who would like more time with the prerequisite material this course can be used as a supplement to MAT121 to reinforce concepts and skills from MAT067 Algebra II. Topics may include, but are not limited to, factoring, graphing, quadratic equations, radical and rational expressions, and exponential and logarithmic functions. (19.8 Lec. Hrs.)
Prerequisite: A math placement score on college assessment within the last two years.
Corequisite: MAT:121

MAT:053 Pre–Algebra   4.0 cr.
This course is designed for students who need to review and improve their arithmetic skills. Topics include whole numbers, introduction to algebra, understanding variables and solving equations, solving application problems, rational numbers, ratios, proportions, and geometric relationships, percents, measurements, graphs, exponents, and polynomials. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)

MAT:065 Math Literacy   4.0 – 6.0 cr.
This one–semester course for non–math and non–science majors prepares students to take MAT:110 Math for Liberal Arts or MAT:156 Statistics. The topics in the course include numeracy, proportional reasoning, algebraic reasoning, functions, geometry, statistics, and student success strategies. When completed, the successful student will develop mathematical maturity through problem-solving, critical–thinking, and writing. Students majoring in science, technology, engineering, math, business, or elementary education should not enroll in this course. (118.8 Lec. Hrs.)
Prerequisite: Complete MAT:053 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:066 Algebra I   4.0 cr
This course provides students with the beginning topics in a two–part algebra sequence. Topics covered include basic algebraic concepts, linear equations in one and two variables, linear inequalities, graphing equations, exponents and polynomial rules, functions, and beginning exponential and logarithmic functions. (79.2 Lec. Hrs.)
Prerequisite: Complete MAT:053 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:067 Algebra II   4.0 cr
This course is for students with a background in a beginning algebra course. Topics covered include factoring, rational expressions, systems of linear equations and inequalities, inequalities and absolute value equations, rational exponents and radicals, quadratic equations and inequalities, and exponential and logarithmic functions. A scientific calculator is required. (79.2 Lec. Hrs.)
Prerequisite: Complete MAT:066 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:104 Applied Math Topics   3.0 cr.
This course presents algebra, geometry, trigonometry, and finance math as it applies to specific career and technical applications. Mathematical ideas and procedures will be presented first, followed by applications with the various career and technical fields. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: Complete MAT:039 or MAT:053 or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years..

MAT:110 Math for Liberal Arts   3.0 cr.
This course is designed for the liberal arts student. The course will include units on logic, problem–solving, sets, counting methods and probability, statistics, financial mathematics, and different base systems. The following topics may be included, number theory, social choice and decision making, applications of logarithms, applications of mathematics in the arts, and geometry. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area.
Prerequisite: Complete MAT:065, MAT:066 with a grade of C– or better, or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:117 Math for Elementary Teachers   3.0 cr.
This course is designed for elementary education majors. Topics in this course include mathematical reasoning, logic, sets, number theory, integers, fractions and rational numbers, decimals, percents, statistics, measurement, and transformations. This course satisfies a General Education requirement for elementary education majors only.

(59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area for Elementary Education majors only.
Prerequisite: Complete MAT:067 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:121 College Algebra   4.0 cr.
This course is designed for students majoring in business, science, math, or pre–engineering. The course will prepare students for future study in mathematics. Topics include, solving equations and inequalities, functions including polynomials, absolute value, greatest integer, exponential and logarithmic functions, system of equations, matrices, permutations and combinations, and the binomial theorem. A graphing calculator may be required. (79.2 Lec. Hrs.)
Prerequisite: Complete MAT:067 or MAT:073 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:128 Precalculus   4.0 cr.
This course is intended to prepare students for calculus or advanced science courses. The course covers logarithms and exponential functions, trigonometric functions, complex numbers, analytic geometry, and topics in the theory of equations. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area.
Prerequisite: Complete MAT:121 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:140 Finite Math   3.0 cr.
This course is designed for students studying business, and some of the social and life sciences. Topics covered in this course include sets, functions, finance, matrices, systems of linear equations, linear programming, exponential and logarithmic functions, and sequences and series. A graphing calculator is required. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area.
Prerequisite: Complete MAT:067 with a grade of C– or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:142 Technical Mathematics I   1.5 cr.
This course is designed to give the student a basic knowledge of applied mathematics and the understanding of how they relate to the manufacturing industry. This course will also prepare the student for further study in mathematics. Topics include: real numbers, solving equations, fractional equations, percent/proportion/variation, calculator operations, and measurements. (29.7 Lec. Hrs.)

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MAT:143 Technical Mathematics II   1.5 cr.
This course is designed to give the student a basic knowledge of applied mathematics and the understanding of how they relate to the manufacturing industry. This course will also prepare the student for further study in mathematics. Topics include: geometry, algebraic fractions, formula re-arrangement, functions and graphs, right triangles, and oblique triangles. (29.7 Lec. Hrs.)
Prerequisite: MAT:142

MAT:144 Technical Mathematics III   1.5 cr.
This course is designed to give the student a basic knowledge of applied mathematics and the understanding of how they relate to the manufacturing industry. This course will also prepare the student for further study in mathematics. Topics include: systems of two equations and formulas, systems of three equations, powers/roots/logarithms, trigonometric functions, vectors, and polynomials. (29.7 Lec. Hrs.)
Prerequisite: MAT:143

MAT:145 Technical Mathematics IV   1.5 cr.
This course is designed to give the student a basic knowledge of applied mathematics and the understanding of how they relate to the manufacturing industry. This course will also prepare the student for further study in mathematics. Topics include: factoring and fractions, quadratic equations, circle concepts, identities/inverse notation/equations, complex numbers, and sine waves. (29.7 Lec. Hrs.)
Prerequisite: MAT:144

MAT:156 Statistics   3.0 cr.
This course is recommended for business, economics, mathematics, science and social sciences students. The course focuses on obtaining, presenting and organizing statistical data. Course topics covered include descriptive measures, probability, probability distributions, binomial distributions, normal distributions, sampling distributions, confidence intervals, hypothesis testing, linear regression, and correlation. A graphing calculator with statistics functions is required. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area.
Prerequisite: Complete MAT:065, MAT:066, or MAT:073 with a grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:165 Business Calculus   3.0 cr.
This course is designed for students in business, social sciences, or life sciences. Topics include limits, derivatives, applications of the derivative related to business, social science, and the life sciences, integration, and applications of the integral related to business, social science, and the life sciences. A graphing calculator is required. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area.
Prerequisite: Complete MAT:121 with a grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:177 Math for Elementary Teachers II   1.0 cr.
This course is designed for elementary education majors to supplement what is learned in MAT:117 Math for Elementary Teachers for transferability to some Illinois universities. This course can be taken simultaneously with MAT:117 or in a subsequent semester. Topics in the course include real numbers and algebraic thinking, introductory geometry, applications of geometry, and algebraic and geometric connections. (19.8 Lec. Hrs.)
Prerequisite: MAT:121 with a minimum grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:210 Calculus I   4.0 cr.
This course is the first in a three-part calculus series. The purpose of the sequence is to provide students enrolled in science, math, engineering, or computer science with a foundation in calculus and analytical geometry. Topics include analytical geometry, limits, differentiation, applications of the derivative, integration and applications of the integral. A graphing calculator is required. (79.2 Lec. Hrs.)
This course satisfies a general education requirement in the Mathematics Area.
Prerequisite: Complete MAT:128 with a grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:216 Calculus II   4.0 cr.
This course is the second in a three-part calculus series. It is a continuation of topics taught in MAT-210 Calculus I. Topics include applications of the definite integral, differentiation and integration of inverse trigonometric and hyperbolic functions, methods of integration, improper integrals, infinite sequences and series, parametric equations, polar coordinate equations, and conic sections. A graphing calculator is required. (79.2 Lec. Hrs.)
Prerequisite: Complete MAT:210 with a grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:219 Calculus III   4.0 cr.
This course is the final course in a three-part calculus. It is a continuation of the topics taught in MAT-216 Calculus II. This is the final course in the series. Topics include solid analytic geometry, moments, partial derivatives, multiple integrals, and vector analysis. A graphing calculator is required. (79.2 Lec. Hrs.)
Prerequisite: Complete MAT:216 with a grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:227 Differential Equations with Laplace   4.0 cr.
This course is designed primarily for science, mathematics and engineering majors. Topics include ordinary differential equations, differential operators, series solutions, matrices and systems of linear differential equations, Laplace Transforms, numerical techniques and applications. A graphing calculator is required. (79.2 Lec. Hrs.)
Prerequisite: Complete MAT:216 with a grade of C- or better or minimum math placement score based on college assessment within the last two years. Immediate prerequisite course must have been completed within the last two years.

MAT:705 Industrial Math and Measurement I   2.0 cr.
This course is the first course of a two course sequence designed to provide the student a basic knowledge of applied mathematics. Topics include basic math operations, English and metric measurement, calculator functions, geometry and algebraic fractions. (24.75 Lec. Hrs. / 29.7 Lab Hrs.)
Prerequisite: RDG:033 or must have a ALEKS Math Assessment score of 14 or above. .

MAT:706 Industrial Math and Measurement II   2.0 cr.
This course is the second in a two-course sequence designed to give the student a basic knowledge of applied mathematics. Topics include functions and graphs, right and oblique triangles, systems of two and three equations, powers, roots and logarithms. (24.75 Lec. Hrs. / 29.7 Lab Hrs.)
Prerequisite: MAT:705

MAT:733 Math for Technologies A   1.5 cr.
This course will cover use of fractions, decimals, rations and proportions, exponents, and percentages as they apply to manufacturing applications. (29.7 Lec. Hrs.)

MAT:734 Math for Technologies B   1.5 cr.
This course will cover algebraic equations, geometric shapes, and machine shop trigonometry. (29.7 Lec. Hrs.)
Prerequisite: MAT:733

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MAT:743 Technical Math   **3.0 cr.**
The first of a two-course sequence designed to communicate the mathematics principles, concepts and manipulative skills needed in basic science and technology. Covers the areas of basic algebra and trigonometry. (59.4 Lec. Hrs)

MAT:748 Technical Math II   **3.0 cr.**
The second of a two-course sequence designed to communicate the mathematics principles, concepts and manipulative skills needed in basic science and technology. Covers the areas of advanced algebra and trigonometry. (59.4 Lec. Hrs.)
Prerequisite: MAT:743

MAT:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

MAT:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

MFG:105 Machine Shop Measuring   **3.0 cr.**
This course will cover a variety of precision measurement devices that are used in manufacturing processes. These devices include machinist's scale, dividers, spring calipers, combination square, hermaphrodite calipers, vernier calipers, dial calipers, digital caliper, micrometers, depth micrometers, surface gauge, dial indicators, gauge blocks, height gauges and sine bar. Emphasis will be placed on how the student will accurately use these devices in the laboratory situation.
(19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MFG:186

MFG:106 Workplace Safety   **3.0 cr.**
This course introduces students to the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces. Students successfully completing this course will be eligible to test for the OSHA-10 Card for General Industry. (59.4 Lec. Hrs.)

MFG:111 Machinery's Handbook   **1.0 cr.**
This course studies The Machinery Handbook, the number one reference and application guide-book used by machinists of all levels in modern manufacturing. General information, using math tables, gear and thread information, and speeds and feeds will be covered. (19.8 Lec. Hrs.)
Prerequisite: MAT:734

MFG:112 Drills and Saws   **2.0 cr.**
In this course students will develop the primary skills and knowledge necessary to use basic drill presses and saws. Areas of instruction will include sharpening drill bits, drilling, reaming, counterbore, spotface, countersink, hand and power tapping and types and uses of saws. Students will be able to properly operate manual and automatic drilling operations using simple and larger radial drill presses, as well as cutting metals and materials to length for further machining operations by operating both horizontal and vertical band saws. Various drill and saw projects will strengthen the student's proper use of these tools.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:105
Corequisite: MFG:116

MFG:113 Vertical and Horizontal Mills   **5.5 cr.**
Upon completion of this course, students will be able to demonstrate competencies in all facets of manual milling operations. Special concentration will be placed on the set-up and safe operation of all milling machines with a heavier emphasis placed upon vertical milling machine operation in preparation for Computer Numerical Control Milling Machine Center programming and operation.
(39.6 Lec. Hrs. / 138.6 Lab Hrs.)
Prerequisite: MFG:105, MFG:192

MFG:114 Surface Grinding   **2.75 cr.**
This course covers the development of basic off-hand and flat stock grinding techniques and the more complex techniques used in grinding. Special attention will be placed on the setup including jigs and fixture applications. Various grinding projects will strengthen the student's proper use of this equipment. (24.75 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: MFG:113

MFG:115 Lathe Work   **4.5 cr.**
In this course students will develop the theoretical and hands-on skills necessary to efficiently and productively operate all types of engine lathes. Students will progress from the basic manual lathes through the larger industrial digital read-out (DRO) lathes. Various lathe projects will strengthen the students' proper use of this equipment.
(39.6 Lec. Hrs. / 99.0 Lab Hrs.)
Prerequisite: MFG:105
Corequisite: MFG:113

MFG:116 Carbide Tooling   **1.0 cr.**
This course will introduce the student to the history and advances of carbide tooling. Indexable inserts; drilling, milling, and turning with carbide tools; basic tooling applications of carbides and coated carbide tools are also covered. Students will develop the necessary knowledge to understand and effectively utilize different types of machine tooling. (19.8 Lec. Hrs.)

MFG:117 Cylindrical Grinding   **1.5 cr.**
This course will introduce the student to proper use and application of cylindrical grinders in manufacturing settings. Topics covered will include parallel grinding, and external and internal tapers methods. (9.9 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:115

MFG:118 Machine Tool Project   **4.0 cr.**
This capstone course will provide the student the opportunity to integrate all skills gained in manual machining courses to design, build, and produce an instructor approved project. Special attention and emphasis will be placed upon accuracy and proper use of equipment and tools following safe work practices in the lab setting.
(19.8 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: MFG:112, MFG:117

MFG:140 Geometric Dimensioning and Tolerance   **1.0 cr.**
This course will cover the basic principles of geometric dimensioning and tolerance, interpreting symbols, interpreting form and orientation tolerances, profile, runout and location tolerances as they relate to manufacturing settings.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: MFG:192, MAT:733

MFG:151 CNC Fundamentals   **2.0 cr.**
This course will introduce students to the Cartesian Coordinate System. Students will concentrate on the use of G codes for tool movements and will make the calculation necessary to identify correct tool locations. A basic knowledge of geometry and trigonometry is necessary to be successful.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:186

MFG:186 Plant Safety   **1.0 cr.**
This course is fundamental to the safe operation of all machine tools within the industrial application. Students will develop the basic skills and knowledge necessary to work safely within all aspects of the manufacturing industry. Basic safety, electrical safety, chemical health hazards, forklift safety and equipment safety will be covered. (19.8 Lec. Hrs.)

MFG:190 Metallurgy   **2.0 cr.**
This course teaches students the basic theory of ferrous and non-ferrous metals. In addition, this course focuses on how metals differ in terms of hardness, brittleness, durability, resistance to corrosion, machinability and weldability.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)

MFG:192 Blueprint Reading   **3.0 cr.**
This course will cover introduction to engineering drawings, multi-view drawings, sectional views, dimensions and tolerances and part feature specification. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

MFG:201 CNC Turning Operator   **2.0 cr.**
This course will introduce students to Computer Numeric Control (CNC) turning centers in the man-

ufacturing setting. Various projects will strengthen students' proper use and troubleshooting of this equipment in the manufacturing setting.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:151

MFG:205 Mill Programming   **2.0 cr.**
This course will introduce students to Computer Numeric Control (CNC) programming concepts in manufacturing settings. Topics include circular interpolation, manual program units, drilling, tapping, boring canned cycles, conversational programming units for milling operations, as well as verifying new programs and understanding advanced programming techniques. Various projects will strengthen the student's proper use, programming and troubleshooting of the equipment in the manufacturing setting.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:221, MFG:105

MFG:221 CNC Milling Operator   **2.0 cr.**
This course will introduce students to Computer Numeric Control (CNC) milling centers in the manufacturing setting. Various projects will strengthen the student's proper use and troubleshooting of this equipment. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:151

MFG:223 CAD/CAM   **2.0 cr.**
This course is designed for students to develop the skills necessary to create geometry in 2-D for machining processes. The student will also create tool paths from the geometry for both Computer Numerical Contolled lathes and Computer Numerical Controlled milling machines. Design and tool path creations will progress from rudimentary to advanced applications.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:192

**MFG:224 Coordinate Measuring
Machine (CMM)**   **1.0 cr.**
This course will emphasize the proper use of Coordinate Measuring Machine (CMM) to qualify and inspect parts for various manufacturing processes. Various CMM hands-on projects will strengthen the proper use of this equipment. (39.6 Lab Hrs.)
Prerequisite: MFG:186, MFG:192

MFG:229 CNC Project   **4.0 cr.**
This capstone course provides students with

the opportunity to integrate all skills gained in Computer Numerical Control (CNC) programming and machining courses to design, build and produce an instructor approved project. Emphasis will be placed on accuracy and the proper use of equipment and tools while following safe work practices. (158.4 Lab Hrs.)
Prerequisite: MFG:111, MFG:118, MFG:140, MFG:190, MFG:223, and MFG:239

MFG:239 Lathe Programming   **2.0 cr.**
This course will introduce students to Computer Numeric Control (CNC) programming concepts in manufacturing settings. Various projects will strengthen the student's proper use, programming and troubleshooting of this equipment in the manufacturing setting. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MFG:201

MFG:371 Manual Projects   **3.0 cr.**
This course will develop the primary skills and knowledge to use basic measurement instruments and manual machine tools in the laboratory situation. Areas of instruction will include basic measurement tools, drill press, manual vertical milling machine, manual lathe and surface grinder. Various projects will strengthen the proper use of these tools. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequistie: MFG:186

**MFG:372 SolidWorks/MasterCam
Applications**   **3.0 cr.**
This is an introductory course focusing on the creation of real parts using Computer Aided Design/Computer Aided Manufacturing software and Computer Numerical Control machine tools. Students will create 3-dimensional parts using SolidWorks parametric modeling software. Students will then export those part files to Mastercam CAM software and process the part files to be machined using a CNC mill. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: DRF:132 or MFG:192

MFG:505 Lean Manufacturing   **1.0 cr.**
This course covers the principles and techniques of lean manufacturing. Topics include lean principles, value stream mapping, total productive maintenance, manufacturing cells, office cells, setup reduction, pull systems and continuous improvement. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)

MFG:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the

Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

MGT:101 Principles of Management   **3.0 cr.**
This course is designed to explain the history and development of management theory and practice. Behavioral and scientific schools of management philosophy are examined. Components of organizations and how they must be integrated at all levels in an organization in order to produce an effective system are presented. (59.4 Lec. Hrs.)
Prerequisite: RDG:032 or RDG:033, or minimum reading placement score based on college assessment.

MGT:110 Small Business Management   **3.0 cr.**
This course blends entrepreneurial dreams with exploration of the range of business functions necessary to operate a small business, such as marketing and financial management, and business planning. Students will sharpen their problem-solving skills through a variety of experiential exercises, classroom discussion, and the completion of a partial business plan by course's end. (59.4 Lec. Hrs.)

MGT:130 Principles of Supervision   **3.0 cr.**
This course places emphasis on the managerial directing functions, including the necessary supervisory qualities, duties and responsibilities. Attention is also given to contemporary supervisory approaches to supervision; the supervisor's relationship to the total management environment; self-management; and the supervisor's relationship to the individual employee and the work group. (59.4 Lec. Hrs.)

**MGT:151 Management
Communication I**   **3.0 cr.**
This course prepares students for the types of written communication essential to management and supervision success. (59.4 Lec. Hrs.)

MGT:165 Principles of Quality   **3.0 cr.**
This course provides a basic introductory understanding of the key principles of Total Quality Management (TQM) - leadership, information and analysis, planning, human resources, processes, results and customer satisfaction. (59.4 Lec. Hrs.)

**MGT:170 Human Resource
Management**   **3.0 cr.**
This course provides an introduction to the theory and practice of personnel administration and industrial relations with a view toward harmonizing an individual worker's goals with goals of the organization. (59.4 Lec. Hrs.)

**MGT:188 Personnel Adm/Indus
Relations**   **3.0 cr.**

COURSE DESCRIPTIONS

An introduction to the theory and practice of personnel administration and industrial relations with a view toward harmonizing an individual worker's goals with goals of the organization. (59.4 Lec. Hrs.)

MGT:210 Management Decision Making   **3.0 cr.**
This course is a capstone course. It cuts across the whole spectrum of business and management. The center of attention is the total enterprise – the industry and competitive environment in which it operates, its long-term direction and strategy, its resources and competitive capabilities, and its prospects for success. Students will role play as managers answering such questions as what should managers do, and do well, to make the company a winner. Students will integrate the skills and knowledge they have acquired in previous courses in working real-world cases drawn from actual businesses. (59.4 Lec. Hrs.)
Prerequisite: Complete first year coursework in the Business Management AAS degree program or consent of instructor.

MGT:260 Introduction to Business Logistics   **3.0 cr.**
This course will provide an overview of the role of supply chain and logistics in today's business world; essential concepts of supply chain management, and an overview of the major functional areas of the supply chain and logistics. Included is the exploration of the ways new technologies and new operating procedures can be used to impact and improve the way supply chains are monitored. (59.4 Lec. Hrs.)

MGT:261 Principles of Transportation Management   **3.0 cr.**
This course studies the fundamental roles and importance of transportation in companies and society. The course evaluates the complex environment in which transportation services are provided and explores strategies for adapting to a fast-paced and rapidly changing industry. Specific tools include overview of transportation, the supply chain, the economy, traditional modes of transportation, special carriers, global transportation, economic operating characteristics of each mode, costing, pricing, carrier strategy, and information management. (59.4 Lec. Hrs.)
Prerequisite: MGT:260

MGT:263 Principles of Distribution and Warehouse Management   **3.0 cr.**
This course introduces students to distribution and warehouse management including warehouse site selection, warehouse layout and design, safety issues & the overall warehouse operations. Presentation of warehouse project illustrating students understanding of warehouse issue. (59.4 Lec. Hrs.)
Prerequisite: MGT:260

MGT:265 International Transportation and Logistics   **3.0 cr.**
This course focuses on the major factors of importing and exporting goods and services on a global scale. It includes understanding current terminology, regulations, analysis of and opportunities in international markets, basic principles of international financing, exchange rates, and other elements Associated with the transportation and distribution operations to facilitate global trade. (59.4 Lec. Hrs.)
Prerequisite: MGT:261

MGT:268 Principles of Logistics Operations Management   **3.0 cr.**
Provides a detailed study of operations management emphasizing the need to achieve the highest level of service and product quality while keeping cost as low as possible. The major areas covered include main concepts, tools and techniques of operations management, coordination and planning, quality improvement and project management for the typical business processes and its relationship to the supply chain. (59.4 Lec. Hrs.)
Prerequisite: MFG:106 and MGT:269

MGT:269 Introduction to Inventory Management   **3.0 cr.**
Focuses on the role of inventory management in the supply chain. Students will be exposed to the concepts, principles, problems and procedures of inventory management. The crucial role of inventory and materials management in the efficiency, competitiveness and profitability of a business will be examined. The importance of inventory management, material requirements planning, and "just-in-time" systems will also be emphasized. (59.4 Lec. Hrs.)
Prerequisite: MGT:260

MGT:910 Supply Chain Internship   **3.0 cr.**
This course provides students with a coop opportunity where they will be able to experience projects related to Supply Chain and Logistics within a business setting.(237.6 Co-op Hrs.)
Prerequisite: Completion of all coursework in the Supply Chain and Logistics AAS up to MGT:910.

MGT:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

MGT:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

MKT:110 Principles of Marketing   **3.0 cr.**
This course provides a picture of basic marketing principles and practices; focuses upon customer-driven strategies to attract, keep, and grow targeted customers. Concepts covered include: Web selling and diversity issues, along with the global marketplace, branding, pricing, and ethical issues. A hands-on application project is also included. (59.4 Lec. Hrs.)

MKT:140 Principles of Selling   **3.0 cr.**
This course presents information regarding careers in selling, sales management, preparation needed for selling and sales presentations. Films and presentations by professional sales personnel will enhance the learning experience. (59.4 Lec. Hrs.)

MKT:150 Principles of Advertising   **3.0 cr.**
This course explains the economic functions of advertising, its value and use in business. Analysis of consumer motivation, presentation of advertising and the effectiveness of various media is presented. Assignments give practice in effective advertising methods. (59.4 Lec. Hrs.)

MKT:160 Principles of Retailing   **3.0 cr.**
This course presents the character and significance of retailing in our economy. Examines the principles and applications of strategic planning in retail areas such as ownership, organization, consumer behavior, trading area, merchandise planning and financial management. (59.4 Lec. Hrs.)

MKT:181 Customer Service Strategies   **2.0 cr.**
This course is designed to introduce students to the concepts of customer service and to help them learn the skills and techniques necessary to provide excellent service to the internal and external customers of the organization for which they work. These skills are vital for every job since identifying and satisfying customer needs is an essential part of every business organization. (39.6 Lec. Hrs.)

MMS:111 Video Production I   **3.0 cr.**
This course introduces students to electronic remote video camera operation and editing. Special attention is given to shot selection framing composition, and lighting. Weekly projects are evaluated by students and instructor in group process. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

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MMS:115 TV Studio Production   3.0 cr.
This course introduces students to principles, procedures and techniques of television production. Emphasis is placed on the basic design and functions of TV production equipment. (59.4 Lec. Hrs.)

MUA:101 Applied Voice   1.0 cr.
This course advances students from their present vocal ability to a higher and more proficient level. There is no prerequisite and students need only the desire and interest to learn better singing techniques. (39.6 Lab Hrs.)

MUA:120 Applied Piano   1.0 cr.
This course advances students from their present ability to a higher and more proficient level. There is no prerequisite and students need only have the desire and interest to learn to play the piano. (39.6 Lab Hrs.)

MUA:147 Applied Instrumental   1.0 cr.
In this course students will be able to further their musical and technical skills on a particular instrument. (39.6 Lab Hrs.)

MUS:100 Music Appreciation   3.0 cr.
This course introduces students to an exploration of the basic music elements, a survey of musical periods and their characteristics from the ancient through the twentieth century; and a discussion of the differences between Western and non-Western musical form and function. Listening and concert attendance is required. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.

MUS:120 Music Theory I   3.0 cr.
This course introduces students to the basic elements of music, music reading and elementary ear training. Notation skills are emphasized. (59.4 Lec. Hrs.)

MUS:123 Music Theory II   4.0 cr.
This course introduces students to techniques and materials of diatonic music, including melodic, harmonic and structural analysis. Students will learn tonal harmony through part writing and harmonization of melodies. Sight singing and aural skills included. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MUS:120

MUS:147 College Community Orchestra   2.0 cr.
This course is designed for students to play with a community orchestra and participate in performances throughout the semester. An audition is required for selection into the orchestra. (79.2 Lab Hrs.)

MUS:151 Pop Singers   1.0 cr.
This course is designed for pop singers to perform musical numbers with choreography; sacred and secular numbers, either a cappella or with instrumental accompaniment. They will perform many civic and school concerts throughout the year. An audition is required for selection for the group. (39.6 Lab Hrs.)

MUS:154 Chorus   1.0 cr.
This course is designed for the student to participate in group performances. Choral arrangements include a variety of literature throughout the year including works with orchestra, sacred, secular and popular musical scores. The chorus presents several concerts during the year and produces the annual variety show. Open to all students without an audition. (39.6 Lab Hrs.)

MUS:158 Civic Chorale   1.0 cr.
This course is designed to allow the choral groups to perform large scale choral works with orchestration and soloists. Enrollment may be with or without credit. Civic Chorale membership is open to any resident of the community without audition. (39.6 Lab Hrs.)

MUS:162 Instrumental Ensembles   1.0 cr.
This course is designed for students to play a variety of styles of music in an ensemble setting. This course is open to students and community members for credit or non-credit. Auditions are not required. Public performances will be included. Can be repeated. (39.6 Lab Hrs.)

MUS:199 Music History   3.0 cr.
This course surveys the history of music from ancient times to the present. Basic elements of music are introduced as they apply to specific musical periods. The course includes listening activities and concert attendance. (59.4 Lec. Hrs.)

MUS:204 History of Rock and Roll   3.0 cr.
This course is a study of Rock and Roll from the mid 1950s to the present. It is designed to create critical listeners of popular culture music through analysis of song forms, rock band instrumentation, and the political, cultural, and social significance of song lyrics. (59.4 Lec. Hrs.)

MUS:222 Music Theory III   4.0 cr.
This course provides further study in diatonic techniques and initial study of twentieth century techniques. Continuation of writing skills and analysis including small part forms. Sightsinging and aural skills included. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MUS:123

MUS:223 Music Theory IV   4.0 cr.
This course is an introduction to the techniques and materials of twentieth century music through analysis, listening and writing. Sightsinging and aural skills included. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MUS:222

MUS:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

NET:104 Essentials I: PC Hardware and Software   4.0 cr.
This course presents an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course helps students prepare for CompTIA's A+ certification. (39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MAT:053 or MAT:104, and RDG:045 or minimum reading score based on college assessment.

NET:105 Printer Maintenance and Repair   3.0 cr.
This course will prepare the student to troubleshoot laser, inkjet, and dot matrix printer failures, repair or replace the failing units, perform any required adjustments or alignments, and verify proper printer operation. Proper preventive maintenance techniques will also be covered. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:104, NET:107, and NET:114

NET:114 Foundation of Information Technology   3.0 cr.
This course is designed as an introduction to the general uses, concepts, application and implementation of information technology within business and industry. Topics include programming, networking, and basic hardware and software concepts. Hands-on experience will consist of installing, upgrading, and maintaining hardware, applications and operating systems. Basic system and network installation and setup will also be performed. Computer system and networking securing concepts will be discussed. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

NET:155 Introduction to Wireless Networks   3.0 cr.
This course provides a hands-on guide to planning, designing, installing and configuring wireless LANs

COURSE DESCRIPTIONS

that prepares students for the Certified Wireless Network Administrator (CWNA) certification. The course provides an in-depth coverage of wireless networks with extensive coverage of IEEE 802.11b/a/g/pre-n implementation, design, security, and troubleshooting. The lecture is reinforced with hands-on projects.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: Complete ENG:013 or minimum English placement scores based on college assessment, MAT:067 or minimum math placement scores based on college assessment, and NET:114 or NET:255.

NET:159 Cisco Packet Tracer   1.0 cr.
In this course, students will learn to use a cross-platform visual simulation tool to create network topologies and build modern computer networks. After learning the user interface, students will build and maintain a small network that includes routers, switches, and PCs.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)

NET:167 Computer Systems and Troubleshooting   4.0 cr.
This course presents an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software and troubleshoot hardware and software problems.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:305

NET:198 Networking I   5.0 cr.
This course introduces the architecture, structure, functions, components and models of the Internet and computer networks. The principles of Internet Protocol (IP) addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of this course, students will be able to build simple Local Area Networks (LANs), perform basic configurations for routers and switches and implement IP addressing schemes.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)

NET:280 Copper, Fiber and Wireless Connectivity   3.0 cr.
In this course, students learn how to install and terminate copper and fiber cabling. The students are shown the proper tools and procedures to achieve desired results for constructing highly reliable voice, video and data networks. Network installation and troubleshooting skills will be practiced. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:114

NET:298 Networking II   5.0 cr.
This course describes the architecture, compo-

nents and operations of routers and switches in a small network. Students will learn how to configure a router and a switch for basic functionality. Students will configure and troubleshoot routers and switches and resolve common issues with Routing Information Protocol (RIP), single-area and multi-area Open Shortest Path First (OSPF), virtual Local Area Networks (LANs) and inter-Virtual Local Area Network (VLAN) routing in both Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) networks.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:198

NET:299 IP Telephony (VoIP)   2.0 cr.
This course will provide students the opportunity to learn to configure converged voice and data networks as well as some of the challenges faced by using VoIP technologies. Students will learn about the VoIP Protocol, QoS technologies, and how these relate to a network.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)

NET:302 Health Information Networking   3.0 cr.
This course equips students with knowledge and skills that can be applied toward entry-level specialist careers in healthcare networking. It is a blended curriculum with both online and classroom learning. This course aims to develop an in-depth understanding of principals and practicalities needed for information technology professionals wishing to specialize in healthcare network implementations.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:298

NET:303 Windows Workstation Operating Systems   3.0 cr.
This course will prepare the student for supporting and using Windows Operating System Platform in a business setting. Topics include: installation, administration of resources, troubleshooting, networking, optimization, and security.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:073 and RDG:033; or minimum math and reading placement scores based on college assessment.

NET:305 Introduction to Network Operating Systems   3.0 cr.
This course is designed to give students of varying experience a practical working knowledge of baseline IT skills and technologies. We will cover each of the major operating systems, including

DOS, Windows 9x/NT/2000/XP, and UNIX/Linux. Topics of this course include: installation, administration of resources, troubleshooting, networking, optimization, and security.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:110 and MAT:065 or MAT:073

NET:313 Windows Server   3.0 cr.
This course is designed to give students a practical understanding of Windows Servers. Students will learn to plan, install, configure, manage, and troubleshoot windows servers using hands-on labs as well as group and individual projects. Topics covered include installing and configuring the server operating systems, setting up hardware, configuring system resources, optimizing system performance, configuring server storage, configuring network connectivity, and implementing server security. This course may be taken more than once provided the server operating system being offered has changed.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:114, RDG:033 or minimum reading placement score based on college assessment.

NET:398 Networking III   5.0 cr.
This course describes the architecture, components and operations of routers and switches in a large and complex network. Students will learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Spanning Tree Protocol (STP), and Virtual Terminal Protocol (VTP) in both Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) networks. Students will also develop the knowledge and skills needed to implement Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS) operations in a network.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:298

NET:420 Introduction to Linux OS   3.0 cr.
This course will teach students how to become proficient with using a Linux Operating System
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

NET:474 Certification Preparation   1.0 cr.
This course is designed as a review and final preparation for students taking Information Technology certification tests. (19.8 Lec. Hrs.)

NET:487 Network+ Exam Preparation   1.0 cr.
The Network+ Test Preparation course will prepare the student to take the Network+ Certification Examination. Through hands-on training, students learn the vendor-independent network skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP client. The course also helps to prepare students for

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two popular certification examinations: CompTIA Network+ and Microsoft Networking Essentials. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: MAT:073 and RDG:033; or math and reading placement scores based on college assessment.

NET:489 A+ Exam Preparation   1.0 cr.
The A+ Certification course will prepare the student to take the A+ Certification Examination. Topics include: computer architecture, microprocessors, memory, storage, video, modems, printers, LANs (Local Area Networks), device drivers, batch files, hard drives, MS-DOS, and Windows Family Operating Systems.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: MAT:073 and RDG:033; or math and reading placement scores based on college assessment.

NET:498 Networking IV   5.0 cr.
This course discusses the Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. The course explains the selection criteria of network devices and WAN technologies to meet network requirements. Students will learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also gain the skills needed to implement Internet Protocol Security (IPsec) and Virtual Private Network (VPN) operations in a complex network. (79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:398

NET:612 Fundamentals of Network Security   3.0 cr.
This course provides the student with an overview of Information Technology (IT) Security and introduces the components necessary to secure network information systems. Topics include security policies, intrusion detection systems (IDS), firewalls, operating system security and network security basics. Students will also be introduced to current hacker techniques and log auditing processes. Current computer security issues will also be explored as class projects.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:298

NET:619 Network Attacks: Detection, Analysis & Countermeasures   3.0 cr.
This course provides students the opportunity to attack computer networks to test their defenses and teaches them how to analyze attacks. Topics include attacks and attack analysis, intrusion detection and analysis and advanced defense countermeasure configuration using firewalls, routers and intrusion detection systems.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

Prerequisite: NET:305

NET:635 Ethical Hacking   3.0 cr.
This course introduces the art of ethical hacking and security testing, thereby preparing students to be efficient security professionals. In this course we will explore the tools and techniques that security professionals use to discover vulnerabilities and offer solutions to protect computer networks. Students will learn that by knowing what attackers know and think, they can better protect network resources from attacks. In addition to learning fundamental security testing concepts, the student will gain practical knowledge in computer programming, documentation of security tests, ethical and legal ramifications and discover that critical thinking skills and creativity are essential in security testing. (59.4 Lec. Hrs.)
Prerequisite: NET:612

NET:639 SANs and Data Arrays   3.0 cr.
This course introduces the concept of networks, storage, and the storage area networks (SAN), which is regarded as the ultimate response to all these needs. Students will be introduced to real-life SANs alongside well-known technologies and platforms that are used in SAN implementations. The Student will also be introduced to some of the trends that are driving the SAN evolution, and how they might affect the future of storage technology. Extensive hands-on labs will allow students to experience first-hand the setup, management, and security of modern Server Area Networks. (59.4 Lec. Hrs.)
Prerequisite: NET:305

NET:652 Microsoft Exchange Server   3.0 cr.
This course covers Microsoft Exchange Server Administration. It will empower students to successfully pass the MCSE certification exam, and its hands-on approach will also prepare students to face the real-life challenges of a Microsoft networking professional. Projects and exercises reinforce skills as they are learned and extensive test preparation resources help students get ready for exam day. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: NET:313

NET:679 TCP/IP and Subnetting   1.0 cr.
This course is intended to provide the necessary information to understand the TCP/IP protocol Suite as well as IP Addressing and Subnetting. This course includes a discussion on the structure and purpose of an IP Address and the purpose for Subnetting. A thorough discussion on Subnetting Class A, B, & C networks, as well as, Variable Length Subnet Mask (VLSM), and Supernetting (Classless Internet Domain Routing) of multiple Class C Addresses is provided. Finally, an introduction to Internet Protocol Version 6 is provided. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: ENG:013 and MAT:073; or minimum English and math placement scores based on college assessment.

NET:785 Fundamentals of Desktop Support   3.0 cr.
This course will introduce the student to the service concepts, skill sets, career paths, and operations of the help desk industry. Students will

master the role of a help desk analysis, navigate the help desk environment, and learn crucial problem solving skills. Through this course students will develop the "soft skills" and the "self-management skills" needed to deliver excellent customer support at the help desk. This course provides an overview of the help desk for individuals interested in pursuing a career in technical support. The course will integrate strong real-world computer support examples, case studies, and group/team exercises to emphasize the concepts of the course. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

NET:851 Innovations in Technology   3.0 cr.
The Information Technology profession demands constant professional updates. This course allows students to explore current trends in the information technology area and participate in other career-path professional development activities. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSC:110, MAT:110, NET:303

NET:860 Information Technology Specialist Capstone   3.0 cr.
This capstone course is designed to allow the student to review, analyze and integrate the work the student has completed toward a degree in Information Technology. The student will complete an approved academic project and paper that demonstrates mastery of their program of study in a meaningful culmination of their learning, and assesses their level of mastery of the stated outcomes of their degree requirements.
(59.4 Lec. Hrs.)
Prerequisite: Consent of instructor

NET:910 Co-op Work Experience   2.0 cr.
Cooperative Education Experience will integrate classroom theory with on-the-job training. The college will assist a student in securing employment which will be related to the student's major field of study and/or career interests. Under the supervision of the college and the employer, the student participates in job training experiences. Students may take Cooperative Work Experience for up to a maximum of eight credit hours. (158.4 Co-op Hrs.)
Prerequisite: Completion of at least 12 EICC credit hours with at least two CIS or NET courses. Minimum Grade Point Average of 2.0.

NET:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

NET:932 Internship   1.0 – 5.0 cr.
This course will integrate classroom theory with

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on-the-job training. The employment opportunity will be related to the student's major field of study and/or career interests. Under the supervision of the college and the employer, the student will participate in job training experiences and demonstrate the knowledge that he or she has gained through college-level classroom instruction. The course is open to students who have completed 75% of their degree of study prior to participation. Prior to registering for the course, the student must have completed an application signed by the student, the employer and the faculty adviser. Students must complete 80 documented work hours for every one college credit hour. Students may take Internship for up to a maximum of three credit hours. (79.2 - 396.0 Co-op Hrs.)
Prerequisite: Consent of instructor

NET:947 Seminar   1.0 – 3.0 cr.
This course will provide opportunities for students to learn employment-seeking techniques including developing cover letters and resumes, completing employment applications, and preparing for employment interviews. Employment expectations and protocols will be discussed. (19.8 - 59.4 Lec. Hrs.)

PEA:143 Physical Conditioning I   1.0 cr.
Designed for students who would like to develop a degree of skill sufficient for leisure time participation. (39.6 Lab Hrs.)

PEC:101 Introduction to Coaching   3.0 cr.
Introductory course dealing with the responsibilities, duties and problems in coaching the interscholastic athlete and the interscholastic team. (59.4 Lec. Hrs.)

PEH:102 Health   3.0 cr.
Study of the problems of health affected by social, economic and political changes of the twentieth century. (59.4 Lec. Hrs.)

PEH:109 Personal Wellness   1.0 cr.
The objective of this course is to teach students the basic principles of exercise, both theory and practice. Concepts included in this course are pre-exercise evaluation, cardiovascular fitness, practical training techniques, various exercise programs and post-exercise evaluation. Students will have the option of analysis of computerized assessments. (19.8 Lec. Hrs.)

PEH:142 First Aid   3.0 cr.
This course teaches first aid practices and problems relationg to shock, contusions, hemorrhages, fractures, poisoning and other related injuries and illnesses. (59.4 Lec. Hrs.)

PHI:101 Introduction to Philosophy   3.0 cr.
While remaining traditional in its scope of philosophical issues and contemporary in its perspec-

tive; this course is designed to provide a solid introduction to philosophy as the love and pursuit of the wisdom needed to understand the true natures and the true values of the basic issues of life. Particular emphasis is placed on providing students with vivid illustrations of the enduring nature and value of philosophy, by showing them how philosophy can be adequately applied to contemporary issues of social concern through exposure to the interactive approach, group discussions, presentations, debates, etc., as well as contemporary thinkers who have applied wise reasoning to such issues. (59.4 Lec. Hrs.)
This course satisfies a genearl education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

PHI:105 Introduction to Ethics   3.0 cr.
This course is designed to give an introduction to ethics from a philosophical perspective. As with any philosophical activity, it will be an inquiry into the fundamental principles and basic concepts that are found at work in the ongoing determination of right and wrong in human life. (59.4 Lec. Hrs.)
This course satisfies a genearl education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

PHI:110 Introduction to Logic   3.0 cr.
This course provides a study of the argumentative use of language and of the methods for distinguishing correct from incorrect reasoning. Topics studied include: the multiple uses of language and their governing conventions, the language of argument and informal fallacies, and the close analysis of actual arguments. The formal analysis of argument is introduced through work on categorical syllogisms and propositional logic. The relation of formal analysis to everyday argument is examined as the course emphasis is on the effective use of the latter. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

PHI:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.

(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

PHS:105 Introduction to Physcial Science   4.0 cr.
A survey of the basic concepts of astronomy and physics, recommended for students who have not had high school physics. Lecture, demonstration and laboratory. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)

PHS:120 Exploring Physical Science   4.0 cr.
This course provides an introduction and overview to physical science. A typical semester will cover 3 to 5 of the major fields in physical science from the following areas: Physics, Modern Physics, Chemistry, Geology, Astronomy, Meteorology, Environmental Science and Oceanography. Topics covered will determined by the instructor. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.

PHS:152 Astronomy   4.0 cr.
This course is a basic course in descriptive astronomy. It introduces the development of modern astronomy including its present-day theories and observations. Topics covered include motions of solar system and deep sky objects, telescopes and other instruments, members of the solar system, nature of the sun, other stars, origin and development of stars and planets, our galaxy, other galaxies, and the organization of the universe. Some night labs are required. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.

PHS:166 Meteorology, Weather and Climate   4.0 cr.
This course is designed to introduce students to meteorology. Topics covered include earth's atmosphere, elements of weather, weather forecasting, types of storms and storm formation, severe weather, thunderstorm, hurricanes, tornadoes, the global climate, global change, and people's interaction with the environment. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.

PHS:172 Physical Geology   4.0 cr.
This is a survey course in physical geology including the Earth's physical systems, the rock cycle, the hydrologic cycle, and the theory of plate tectonics. Volcanism, earthquakes, erosion, and geologic resources are included. Emphasis in lab is on reading geologic maps and the study of common rocks and minerals. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.

PHS:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportu-

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nity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

PHY:110 Survey of Physics I   3.0 cr.
This is the first of two algebra-based courses in physics for pre-chiropractic students. Students will develop problem solving skills in mechanics, thermodynamics, and acoustics. The student will become proficient in applying the scientific method to laboratory measurements of topics from motion, heat, and sound. Applications to physics of the body will be emphasized.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: MAT:073

PHY:111 Survey of Physics II   3.0 cr.
This is the second of two algebra-based courses in physics for pre-chiropractic students. Students will develop problem solving skills in electricity and magnetism, optics, and modern physics. The student will become proficient in applying the scientific method to laboratory measurements in topics from electric circuits, light, and radiation physics. Applications to physics of the body will be emphasized. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: PHY:110

PHY:130 Applied Physics I   1.0 cr.
The first of a two-course sequence, this is an intensive applied math and physics problem experience. The content covered will be reinforced with many applied problems. This course will include: technical measurements and vectors, translational equilibrium and friction, and torque and rotational equilibrium. (14.85 Lec. Hrs. / 29.7 Lab Hrs.)
Prerequisite: MAT:143

PHY:135 Applied Physics II   1.0 cr.
The second of a two-course sequence, this is an intensive applied math and physics problem experience. The content covered will be reinforced with many applied problems. This course will include: uniform acceleration, Newton's second law, and

work/energy/power.
(14.85 Lec. Hrs. / 29.7 Lab Hrs.)
Prerequisite: PHY:130

PHY:162 College Physics I   4.0 cr.
The first course in a sequence of two physics courses for students in liberal arts, pre-med, pre-vet, pre-dental, pre-pharmacy, and other students not majoring in the physical sciences, math, or engineering. Topics include fundamentals of mechanics, Newton's Laws of Motion, energy, momentum, periodic motions, fluids, rotation, and thermal physics. Applications and history are discussed. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: MAT:073 or two years of high school Algebra.

PHY:172 College Physics II   4.0 cr.
This course is a continuation of PHY 162 College Physics I. It includes static and current electricity, electromagnetism, wave motion, optics, atomic, and nuclear physics. Students will achieve a basic understanding of the fundamental principles in these topics and be able to apply physics concepts to a variety of physical situations. Students are expected to acquire basic skills in scientific methods, critical reasoning, and problem-solving.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: PHY:162

PHY:185 Conceptual Physics Fundamentals I   2.0 cr.
The course is designed to provide the student with a fundamental knowledge of the rules of nature as they pertain to atoms, equilibrium, motion, energy, gravity and fluid mechanics. Emphasis is placed on the methods of understanding and investigating nature with the scientific method.
(14.85 Lec. Hrs. / 49.5 Lab Hrs.)
Prerequisite: MAT:706

PHY:186 Conceptual Physics Fundamentals II   2.0 cr.
This course is a continuation of PHY:185. It is designed to provide the student with a fundamental knowledge of the rules of nature as pertains to temperature, heat transfer, change of phase, waves and sound light, quantum theory, atomic nuclei and radioactivity. Emphasis is placed on the methods of understanding and investigating nature with the scientific method.
(14.85 Lec. Hrs. / 49.5 Lab Hrs.)
Prerequisite: PHY:185

PHY:212 Classical Physics I   5.0 cr.
This course is the first course in a sequence of two physics courses for students in physics, other physical sciences, math, and engineering. Course topics include the fundamentals of mechanics,

Newton's Laws of Motion, energy, momentum, periodic motions, fluids, rotation, and thermal physics. Calculus is applied to physics concepts. Students are also expected to learn to organize their thoughts clearly in both written and oral communication.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
This course satisfies a general education requirement in the Natural Sciences Area.
Prerequisite: MAT:210
Corequisite: MAT:210

PHY:222 Classical Physics II   5.0 cr.
This course is a continuation of PHY:212 Classical Physics I. Students will achieve a basic understanding of the fundamental principles in these topics and to be able to apply physics concepts to a variety of physical situations. Students are expected to acquire basic skills in scientific methods, critical reasoning and problem-solving. The application of calculus to these physics concepts is used. (79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: MAT:210, PHY:212, or consent of instructor.

PHY:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

PHY:929 Individual Projects   1.0 cr.
This course is designed to meet the needs of the individual student. The course goals will vary with the particular student. For example, the student's goal might be to supplement their courses in physics to meet credit requirements at transfer institutions and to broaden the student's perspective concerning these courses. (39.6 Lab Hrs.)

PNN:165 Nursing Fundamentals Module A   5.0 cr.
This course is the initial course in the nursing curriculum. The course introduces the core concept of caring as it relates to the practice of nursing. This course acquaints the student with the therapeutic use of self in caring for individuals across the life span. Additionally, the concepts of health, environment, person, and nursing are presented as the supporting structure to practice. The nursing process, critical thinking, communication, and adaptation are introduced as contributing concepts that are essential to the art of holistic caring. The course is structured to facilitate acquisition of knowledge, techniques, and professional values necessary to basic nursing care. The course includes the psychosocial and interpersonal concerns of the nurse and the individual in the therapeutic environment. Basic interventions for the client with specific health needs are included. Various health care facilities are used including acute and long term care facilities. This course is offered in two modules.
(59.4 Lec. Hrs. / 118.8 Clinical Hrs.)
Corequisite: PNN:210

PNN:166 Nursing Fundamentals

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Module B   **5.0 cr.**
This course introduces the core concept of caring as it relates to the practice of nursing. This course acquaints the student with the therapeutic use of self in caring for individuals across the life span. Additionally, the concepts of health, environment, person, and nursing are presented as the supporting structure to practice. The nursing process, critical thinking, communication, and adaptation are introduced as contributing concepts that are essential to the art of holistic caring. The course is structured to facilitate acquisition of knowledge, techniques, and professional values necessary to basic nursing care. The course includes the psychosocial and interpersonal concerns of the nurse and the individual in the therapeutic environment. Basic interventions for the client with specific health needs are included. Various health care facilities are used including acute and long term care facilities.
(59.4 Lec. Hrs. / 118.8 Clinical Hrs.)
Prerequisite: PNN:165, PNN:210 with a grade of C or better.
Corequisite: PNN:211

PNN:210 Pharmacology Module A   **1.0 cr.**
This course introduces the student to the basic principles of pharmacology, dosage calculation, and medication administration. Emphasis is placed on nursing responsibilities in drug therapy, including the safe administration of all drugs.
(19.8 Lec. Hrs.)
Corequisite: PNN:165

PNN:211 Pharmacology Module B   **1.0 cr.**
This course provides the student with the rationale for medications given to individual clients, and the effects that drugs have on various systems of the body. Emphasis is placed on nursing responsibilities in drug therapy, including the safe administration of all drugs. (19.8 Lec. Hrs.)
Prerequisite: PNN:210 with a grade of C or better.
Corequisite: PNN:166

PNN:511 Concepts in Clinical Nursing Module A   **4.0 cr.**
This course introduces students to the nursing process in the perioperative management of clients, the nursing management of individuals with nutrition and metabolic alterations, and the nursing management of individuals with activity and exercise alterations. Emphasis will be placed on adaptation to common stressors, the resultant health-illness responses and the transformation of caring into therapeutic nursing interventions. A lifespan approach to health restoration and rehabilitation will be used.
(59.4 Lec. Hrs. / 59.4 Clinical Hrs.)
Prerequisite: BIO:168, PNN:166, and PNN:211

PNN:512 Concepts in Clinical Nursing Module B   **5.0 cr.**
This course introduces students to the nursing management of individuals with elimination alterations, of individuals with cognitive and perceptual alterations, and of individuals with multi-system alterations. Emphasis will be placed on adaptation to common stressors, the resulting health-illness responses and the transformation of caring into therapeutic nursing interventions. A lifespan approach to health restoration and rehabilitation will be used. (59.4 Lec. Hrs. / 118.8 Clinical Hrs.)
Prerequisite: PNN:511

PNN:641 Transition to Practice   **6.0 cr.**
This course examines the concepts of caring, health, environment, person and nursing. Emphasis is placed in meeting the spiritual, psychosocial emotional and physical needs of clients by the practical nurse team member. Nursing care specific to elderly clients is presented. This course affords the student an opportunity to examine current trends in health care delivery and legislation. (59.4 Lec. Hrs. / 118.8 Clinical Hrs.)
Prerequisite: PNN:512

POL:110 Introduction to Political Science   **3.0 cr.**
This course will introduce students to the basic concepts of political science. (59.4 Lec. Hrs.)

POL:111 American National Government   **3.0 cr.**
This course is a survey of American government and politics. It includes discussion of the historical foundations and fundamental principles of American democracy, the basic institutions of government, the fundamental rights of citizens and the public policy process. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Social Sciences Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

POL:112 American State and Local Government   **3.0 cr.**
This course provides an introduction to politics, government and public policy at the state and local level, with particular emphasis on the state of Iowa. It includes an analysis of the relationship among federal, state and local governments; the structure and powers of state and local governments; the scope of political participation in state and local parties; and public policymaking by state and local governments. (59.4 Lec. Hrs.)

POL:121 International Relations   **3.0 cr.**
This course involves the study of international relations, including major theories and concepts relating to the international political system, international organizations, foreign policy, globalization, international economics, ecology and international conflict. The course is designed to give the student a better understanding of international relations in the world today with application to specific cases. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

POL:125 Comparative Government and Politics   **3.0 cr.**
This course is a survey of political institutions across the globe. It includes discussion of the political institutions of countries at different levels of development. Emphasis will be placed on the impact of these differences on a state's citizens and public policy. Comparative Government will familiarize students with similarities and differences of governments around the world. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

POL:129 Politics in Terrorism   **3.0 cr.**
This course introduces the history and current state of terrorism in the United States and the world. The focus of the course will be on conditions, media response, and prospects for future terrorist activity. (59.4 Lec. Hrs.)

POL:923 Honors Seminar   **1.0 – 4.0 cr.**
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 - 59.4 Lec. Hrs. / 0 - 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

POL:928 Independent Study   **1.0 – 3.0 cr.**
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 - 118.8 Lab hrs).

POL:943 Readings in American Government   **1.0 – 2.0 cr.**
This course is designed to provide the student with additional reading in American Government, allowing the student to obtain a greater understanding of the various problem areas in this discipline than can be attained by normal course work.
(39.6 - 79.2 Lab Hrs.)
Prerequisite: POL:111

POL:949 Special Topics   **1.0 – 3.0 cr.**
Special Topics for Political Science.
(19.8 - 59.4 Lec. Hrs.)

PSY:111 Introduction to Psychology   **3.0 cr.**
This course is an examination of the fundamentals of behavior. It is designed to familiarize students with human behavior, how it is studied and the applications of the results of that study. Theoretical issues, comprehension of research findings and research techniques will also be examined.
(59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Social Sciences Area.

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PSY:121 Developmental Psychology   3.0 cr.
This course is designed to provide the student with an understanding of the process and interrelationship of physical, emotional, intellectual, and social evolution in the individual. Attention is given to these human potentials throughout the life-cycle from conception to death. (59.4 Lec. Hrs.)

PSY:211 Psychology of Adjustment   3.0 cr.
This course is a study of the factors of mutual accommodation, adjustment. Emphasis is placed on normal adjustment problems. (59.4 Lec. Hrs.)
Prerequisite: PSY:111 or consent of instructor

PSY:213 Industrial & Organizational Psychology   3.0 cr.
This course is a study of psychology as a guide to relationship of people in industry. This course is designed to help each student develop an awareness of needs, sentiments, and attitudes toward self and others in an organizational setting. Organizational problems are anticipated and preventative means are studied. (59.4 Lec. Hrs.)

PSY:222 Child Psychology   3.0 cr.
This course deals with the interplay of biological factors, human interactions, cultural forces, and social structures which shape the growing child from conception to adolescence. (59.4 Lec. Hrs.)

PSY:223 Child and Adolescent Psychology   3.0 cr.
This course deals with the interplay of biological factors, human interactions, cultural forces, and social structures which shape the growing child from conception through adolescence. (59.4 Lec. Hrs.)

PSY:224 Adolescent Psychology   3.0 cr.
This course is a comprehensive examination of the physical, cognitive, and psychosocial dynamics of the developmental period between the ages of 11 and 18 years. Topics of discussion include puberty, the adolescent and the family, the adolescent and peers, education of adolescents, and sex and drugs in the adolescent subculture. The course is designed to provide an accurate picture of the adolescent within American culture. (59.4 Lec. Hrs.)

PSY:226 Psychology of Aging   3.0 cr.
The course studies aging in terms of four distinct, but interrelated processes: chronological aging, biological aging, psychological aging and social aging. (Same as SOC:220) (59.4 Lec. Hrs.)

PSY:236 Psychology of Personality   3.0 cr.
This course provides an in-depth study of concepts related to personality development, description, assessment and special problems. Emphasis is given to the fields of psychoanalytic , behavioral, self-actualization and existentialism.

(59.4 Lec. Hrs.)

PSY:241 Abnormal Psychology   3.0 cr.
This course is designed to provide the student with an understanding of abnormal behavior as it exists in modern life. Also, the student will be given criteria to recognize abnormal behavior and be shown theoretical aspects along with treatment designs. (59.4 Lec. Hrs.)
Prerequisite: PSY:111 or consent of instructor

PSY:246 Introduction to Counseling Skills   3.0 cr.
This course is designed to provide students with three essential components relative to the fields of counseling and human services. These are 1) to attain a foundation in the theories of psychotherapy. In this course, selected prominent theories of psychotherapy, which provide guidelines for understanding human problems and for selecting interventions for these problems, will be studied. 2) To learn "helping" skills so that students can begin to practice micro-counseling techniques in the classroom. 3) To gain knowledge about the large number of occupational choices within the field of counseling and human services. (59.4 Lec. Hrs.)

PSY:251 Social Psychology   3.0 cr.
This course is designed as an evaluation of the theories and the research if individual behavior in the social environment. Topics will include social influence processes, social influence, group behavior, leadership, conformity and attitude formation, and social cognition. (Same as SOC:251) (59.4 Lec. Hrs.)
Prerequisite: PSY:111 or SOC:110; or consent of instructor.

PSY:261 Human Sexuality   3.0 cr.
This course is an introduction to the study of the dynamics of human sexuality. Emphasis is given to the physiological, psychological, and social aspects of sexuality. (Same as SOC:261) (59.4 Lec. Hrs.)

PSY:262 Psychology of Gender   3.0 cr.
This course is designed to explore the differences between the male and female gender from conception through adulthood. Differences in abilities and attitudes which arise from biology and the brain will be emphasized, although socio-cultural explanations for differences will also be discussed. In addition, the differences in the use of language and communication by males and females will be explored. The goal of the course is to understand these differences and to decide how males and females can use this understanding to communicate with each other and to augment appreciation for the cross-sex. (59.4 Lec. Hrs.)

PSY:281 Educational Psychology   3.0 cr.
This course is designed for individuals who are or will be working in a vocational environment, which requires them to provide or become part of an educational or training program. Although the course is targeting traditional educational systems there is direct applicability to virtually any setting in which you may be required to help an individual or group of individuals learn and understand new information, or to develop new knowledge and skills sets. The fundamentals of this course are designed to assist the student in differentiating learning theory and processes as aspects of human development. Emphasis is placed on the roles of the educators and the students in applying the principles of learning, instruction, evaluation, and pupil management. (59.4 Lec. Hrs.)
Prerequisite: PSY:111 or consent of instructor

PSY:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

PSY:924 Honors Project   1.0 cr.
This course is designed to integrate academic study and community service. By volunteering at least 33 hours at a non-profit, service organization, students will have an opportunity to exercise civic responsibility and deepen their understanding of the content in their majors. Students will learn and develop through active participation in organized service experiences that meet our community's needs. (39.6 Lab Hrs.)

PSY:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

PSY:943 Readings in Psychology   1.0 cr.
This course is designed to provide additional readings in psychology, allowing the student to obtain a greater understanding of the various areas of this discipline than can be attained by normal course work. (39.6 Lab Hrs.)

RAD:100 Introduction to Radiography and Patient Care   5.0 cr.
This course will introduce the student to the history of radiology and radiologic technology. The student should learn about the hospital; its

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structure, medical specialties, and the role of the radiographer on the health care team. The student should gain the knowledge necessary to provide safe patient care including: communication skills, legal and ethical issues in medicine, body mechanics, patient transfer, medical terminology, valuing diversity, standard precautions and radiography as a profession. In the final half of the semester the student will spend four hours per week observing in the radiology department.
(59.4 Lec. Hrs. / 79.2 Lab Hrs.)

**RAD:109 Intro to Radiography
and Patient Care   4.0 cr.**
This course will introduce the student to radiologic technology, the evolution of radiography film to the digital imaging technology of today. The student will learn about the hospital and clinical setting, medical specialties, and the role of the radiographer on the health care team. The student will gain the knowledge necessary to provide safe patient care to include the following topics: legal and ethical issues in medicine, professionalism, communication skills, medical terminology, patient histories, pharmacology, valuing diversity, soft skills, body mechanics, patient transfer methods, standard precautions, radiation safety and radiography as a profession. In the final half of the semester the student will spend four hours per week observing the radiology departments for clinical observations.
(39.6 Lec. Hrs. / 79.2 Lab Hrs.)

RAD:123 Radiographic Procedures I   5.0 cr.
This course familiarizes the first-semester student with patient positioning, common terms and procedures performed in the radiology department. Procedures to be studied and simulated in the energized laboratory include upper and lower extremity, chest, gastrointestinal, abdominal and urinary tract radiography. Preparation, precautions, and administration of contrast media will be explored. Radiographic critique will be integrated throughout the course.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)

RAD:143 Radiographic Procedures II   5.0 cr.
This course is designed to study radiographic anatomy and procedures of the shoulder and pelvic girdles, bony thorax, spine and skull. Students will simulate these procedures in the energized laboratory. Emphasis will be given to those procedures that are most commonly performed in the radiology department. Radiographic film critique will be integrated throughout the course.
(79.2 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: RAD:123

RAD:161 Radiographic Procedures III   2.0 cr.
This course is designed to study radiographic anatomy and procedures of the skull, facial bones, mandible and sinuses. Students will simulate these procedures in the energized laboratory. Emphasis will be given to those procedures that are most commonly performed in the radiology department.
(29.7 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: RAD:143

RAD:183 Special Procedures   3.0 cr.
This course is an integrated study detailed anatomy, physiology, and radiographic procedures including the use of special equipment. Special emphasis is placed on the radiographic procedures related to the circulatory and nervous system. The scientific principles and uses of computerized tomography, digital angiography, magnetic resonance, ultrasonography, and nuclear medicine are discussed. Students will apply these principles during their clinical practicum and special rotations. Preparation, precautions, and administration of contrast media will be explored. (59.4 Lec. Hrs.)
Prerequisite: RAD:143

RAD:210 Clinical Education I   4.0 cr.
The radiography student will be assigned to the clinical affiliate. Students will be thoroughly oriented to the operation of the hospital and radiology department. Students will observe, assist with and gradually perform under direct supervision procedures learned in Radiographic Procedures I. They will learn routine procedures performed in the assigned clinical affiliate and apply procedures introduced in Imaging. Film critique will be integrated throughout the course. Students will meet requirements and competencies in the areas specified in the clinical procedure manual.
(237.6 Clinical Hrs.)
Prerequisite: RAD:100, RAD:123, and RAD:350

RAD:220 Clinical Education II   3.0 cr.
The student will be assigned to the same clinical affiliate as in Clinical Education I. Students will continue to perform radiographic procedures with indirect supervision on those exams where competency has been achieved. Emphasis will be placed on those procedures learned in Radiographic Procedures I and II. Film critique will be integrated throughout the course. Students will meet requirements and competencies in the areas specified in the clinical procedure manual. The student will complete rotations in Ultrasound, Nuclear Medicine and Radiation Therapy.
(178.2 Clinical Hrs.)
Prerequisite: RAD:210

RAD:300 Radiographic Exposure   4.0 cr.
This course explores the principles of equipment operation, phototimers, and manual techniques. The factors affecting radiographic quality and the methods for maintaining good radiographic quality are investigated. Many learning experiences are provided in the energized laboratory.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: RAD:350

RAD:350 Imaging   3.0 cr.
This course explores the principles of automatic processing, digital radiography, image intensification and fluoroscopy. Film characteristics and composition, screens and grids are investigated. Learning experiences are provided in the energized laboratory when appropriate.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

RAD:420 Radiographic Physics   4.0 cr.
This course explores the physical concepts of matter, energy, x-rays, electricity, magnetism, and electromagnetism. Electric generators and motors, x-ray circuits, x-ray tubes, rectification, x-ray production, quality control, and interaction of x-rays with matter are also discussed in detail. Quality assurance tests of the tube, generator, and other equipment will be performed.
(69.3 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: RAD:183, RAD:220, and RAD:300

RAD:500 Clinical Education III   6.0 cr.
The student will be assigned to a different clinical affiliate where he will be oriented to the hospital and radiology department. Under indirect supervision, the student will perform routine procedures where competency has been achieved as assigned. With direct supervision, the student will achieve competencies in radiographic procedures as specified in the clinical manual. Film critique will be integrated throughout the course. The student will complete rotations in Computed Tomography, Mammography, Magnetic Resonance Imaging and Cardiac Catheterization. (356.4 Clinical Hrs.)
Prerequisite: RAD:220

RAD:510 Clinical Education IV   6.0 cr.
The student will be assigned to the same clinical affiliate as Clinical Education III and continue to perform routine procedures with indirect supervision where competency has been achieved. Film critique will be integrated throughout the semester. Students will meet requirements as specified in the clinical procedures manual.
(356.4 Clinical Hrs.)
Prerequisite: RAD:500

RAD:540 Clinical Education V   3.0 cr.
The student will be assigned to the same clinical affiliate as in Clinical Education IV. Students will continue to perform radiographic procedures with minimal supervision and attain competency in all radiographic procedures as specified in the clinical procedure manual. (178.2 Clinical Hrs.)
Prerequisite: RAD:510

RAD:738 Radiographic Pathology   2.0 cr.
This course is an overview of disease processes commonly assessed using diagnostic imaging. Medical terminology, symptoms, etiology, and diagnoses will be presented for diseases of the respiratory, skeletal, gastrointestinal, and urinary systems. Radiographic images of pathologies will

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be evaluated and changes in technique will be discussed. (39.6 Lec. Hrs.)
Prerequisite: RAD:420, RAD:500, and RAD:761

RAD:750 Radiographic Pathology   3.0 cr.

This course focuses on the common diseases and abnormalities of organs and systems as they relate to radiography. The anatomy and physiology of each system will be reviewed preceding the discussion of that system's diseases. Proper learning and understanding of the material will be facilitated by experience in performing radiographic procedures and film evaluation, including the concept of the changes in technique required to compensate for density differences produced by the underlying pathologic conditions.
(59.4 Lec. Hrs.)
Prerequisite: RAD:500, RAD:761, and RAD:800

RAD:761 Film Evaluation   3.0 cr.

This is the first of a two course sequence. This course is designed to emphasize principles of film evaluation as it relates to techniques, collimation, shielding, positioning and radiographic quality. 'Radiograph rejects' are studied in detail. Procedures to improve their diagnostic quality are emphasized, including the use of existing diagnostic exams to demonstrate desirable films. (59.4 Lec. Hrs.)
Prerequisite: RAD:183, RAD:220

RAD:790 Film Evaluation II   2.0 cr.

This is the second of a two course sequence. This course is designed to emphasize principles of film evaluation as it relates to techniques, collimation, shielding, positioning and radiographic quality. 'Radiograph rejects' are studied in detail. Procedures to improve their diagnostic quality are emphasized, including the use of existing diagnostic exams to demonstrate desirable films. (39.6 Lec. Hrs.)
Prerequisite: RAD:761

RAD:800 Physics for Radiographers   3.0 cr.

This course explores the physical concepts of energy, the structure of matter, electrostatics, electrodynamics, magnetism, electromagnetism, electric generators and motors, the principles of electricity as it relates to x-ray circuits, rectification, and x-ray production. X-ray tubes, rating charts, and interaction of x-rays with matter are also discussed in detail. (59.4 Lec. Hrs.)
Prerequisite: RAD:183, RAD:220, and RAD:300

RAD:850 Radiation Protection and Biology   3.0 cr.

This course explores the history and biological effects of ionizing radiation. Different methods of radiation measurement, detection and protection are discussed. (59.4 Lec. Hrs.)
Prerequisite: RAD:500, RAD:761, and RAD:800

RAD:890 Quality Assurance   1.0 cr.

This course explores the theory and practice of quality assurance in the diagnostic radiology department. The use of quality assurance test tools, interpretation of results and management of a quality assurance program through record keeping is investigated in the laboratory.
(9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: RAD:510

RAD:946 Seminar   2.0 cr.

This course is designed to provide the student with the opportunity to explore state of the art technology, computer fundamentals and computer applications in radiology. The student will also be given the opportunity for the re examination of previously learned material and based on pre assessment, certain topics will be selected for discussion. (39.6 Lec. Hrs.)
Prerequisite: RAD:510, RAD:790, and RAD:850
Corequisite: RAD:540, RAD:890

RAD:948 Seminar   4.0 cr.

The seminar course will help prepare the radiography student for the radiography board certification examination. The ARRT content specifications identify all topics to be re-examined for this course. Each of the following content categories' will be covered in great depth: Patient Care, Radiation Safety, Image Production and Radiographic Procedures. The student will be given the opportunity for re-examination of previously learned material through practice mock board examinations. Each student will also identify areas for discussion and research from the content specifications and lecture. (79.2 Lec. Hrs.)

RDG:032 Introduction to College Reading   2.0 cr.

This is an introductory course designed to assist the student whose present reading level is not sufficiently developed to meet the recommended college level assignments. Emphasis will be on improving comprehensive reading skills as well as reading rate and general vocabulary. This course is required of students whose diagnostic or assessment scores indicate a need for supplemental work in reading. Satisfactory completion of course material and/or significant improvement on the reading post-test must be met to earn a passing grade. (39.6 Lec. Hrs.)
Prerequisite: ENG:064 or RDG:045

RDG:033 Introduction to College Reading   3.0 cr.

This course is designed to assist the student whose present reading level is not sufficiently developed to meet the recommended college level assignments. Emphasis will be on improving comprehensive reading skills as well as reading rate and general vocabulary. This course is required of students whose diagnostic or assessment scores indicate a need for supplemental work in reading. Satisfactory completion of course material and/or significant improvement on the reading post-test must be met to earn a passing grade. This course is required of students whose diagnostic or assessment scores indicate a need for supplemental work in reading. (59.4 Lec. Hrs.)
Prerequisite: RDG:045

RDG:045 Keys to Reading   3.0 cr.

This course is designed for students who need intensive direction in reading and study skills. Emphasis will be on improving comprehensive reading skills and general vocabulary. (59.4 Lec. Hrs.)

REL:101 Survey of World Religions   3.0 cr.

This is an introductory course to the origins and historical developments of various religions of the world. Particular emphasis will be placed on understanding why peoples of the world embrace various religions, and the role religion plays in giving meaning and purpose to personal and social existence. The course will provide students the opportunity to understand world events through an understanding of the impact of religious beliefs and values on people146s daily lives. The study will include a survey of Religions of Prehistoric Cultures; Native American Religions; African Religions; Religions of India; Religions of China and Japan; Religions of Southwest Asia; Christianity; the Bahai Religion; and New Religions in America. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Arts and Humanities Area.
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

SDV:107 Health Science College Experience   1.0 cr.

This course will assist all science students to acquire essential skills needed for academic success in the fields related to science and health. The topics covered are classroom strategies, computer resources, science terminology and symbols, scientific interpretation of data, and student responsibilities. (19.8 Lec. Hrs.)

SDV:108 The College Experience   1.0 cr.

This course will assist all new college students to acquire essential skills needed for academic success. The topics covered are campus resources, classroom strategies, library skills, computer resources, and student responsibilities.
(19.8 Lec. Hrs.)

SDV:113 Strategies for Academic Success   2.0 cr.

This course provides an opportunity for students to learn and adopt methods to be successful in school. Topics include memory development, reading and note-taking techniques, test-taking techniques, learning styles, time and money management, stress reduction, setting goals, self-esteem and college policies and procedures. This course is suggested for students whose diagnostic or assessment scores indicate a need to review study skills for success in college level courses. (39.6 Lec. Hrs.)

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SDV:114 Strategies for Academic Success   3.0 cr.
This course provides an opportunity for students to learn and adopt methods to be successful in school. Topics include memory development, reading and note-taking techniques, test-taking techniques, learning styles, time and money management, stress reduction, setting goals, self-esteem and college policies and procedures. This course is suggested for students whose diagnostic or assessment scores indicate a need to review study skills for success in college level courses. (59.4 Lec. Hrs.)

SDV:129 Transition to College   1.0 cr.
This course introduces students to the college environment and engages students in developing the essential skills for a successful college experience. (19.8 Lec. Hrs.)

SDV:130 Career Exploration   1.0 cr.
This course is designed to involve students in educational and occupational orientation (as related to self) and to make valid educational choices. Participants have an opportunity to investigate employment opportunities in their field of interest. The college selection process is reviewed and an appropriate curriculum for students' majors will be developed. (19.8 Lec. Hrs.)

SDV:131 Career Exploration   2.0 cr.
This course is designed to involve students in educational and occupational orientation (as related to self) and to make valid educational choices. Participants have an opportunity to investigate employment opportunities in their field of interest. The college selection process is reviewed and an appropriate curriculum for students' majors will be developed. (39.6 Lec. Hrs.)

SDV:174 Critical and Creative Thinking   3.0 cr.
This course will provide training in thinking, decision-making, problem analysis and problem solving. The student will apply critical and creative thinking strategies to problems on a variety of personal, occupational, and cultural situations. (59.4 Lec. Hrs.)

SDV:176 The College Experience   2.0 cr.
This course introduces students to the needed skills, knowledge, and behaviors that will promote academic success. The course focuses on campus resources, self-exploration and planning for success. (39.6 Lec. Hrs.)

SDV:188 Understanding Chemical Dependency   2.0 cr.
This course is a study of a broad range of chemical, physiological, and psychological effects on the human body and mind. The study includes behavioral implications and issues of prevention, intervention, and treatment. (39.6 Lec. Hrs.)

SDV:196 Getting Involved   1.0 cr.
In this course students will receive credit for volunteer work in a community organization or with one of the college services. Emphasis is on involvement with other people. Activities may include tutoring, working with youth or aged, or a leadership position in a college activity. (19.8 Lec. Hrs.)
Prerequisite: Consent of Instructor

SDV:220 Honors Colloquium   2.0 cr.
This course provides students who have a high level of academic achievement with learning opportunities beyond current curricular offerings. Through a variety of classroom and field activities, students will be challenged to use critical and creative thinking proceses. Academic departments and guests will have opportunities to present enriching activities. (39.6 Lec. Hrs)

SER:100 Introduction to Renewable Energy Applications   2.0 cr.
This course provides an overview of various renewable energy applications. This includes a discussion of energy from wind, solar, ethanol, biodiesel, methane and hydro. There will be an introduction to cost, uses and maintenance of such systems. (39.6 Lec. Hrs.)

SER:102 History of Power Generation   3.0 cr.
This course provides a comprehensive history of power production. The course will cover the progressions of power generation from the earliest forms of power such as fire, wind and water to the modern power generation techniques. Also covered will be historical sidelines to alternative power. This course will utilize a lab component to reinforce the fundamentals of each power generation technology. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

SER:103 Renewable Energy Site Assessment   3.0 cr.
This course examines the theoretical background, utilization of existing energy-potential databases, and on-site evaluation methodologies for determining the feasibility and actual siting of solar and wind technologies, both active and passive, but also consideration for fuels cells, geothermal and biomass sources. It also guides the student through multiple deployment methods for the installation of anemometers, pyranometers, and weather stations, as well as their integration with state-of-the-art data logging computer systems. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

SER:104 Residential Renewable Energy Power Systems   3.0 cr.
This course covers the fundamentals of capturing the wind and sun for use in power generation. Students will install working wind turbines and solar photovoltaic systems on pre-selected sites. A significant amount of this class will be dedicated to hands-on construction of the systems. This is an applied learning course with optional tower climbing. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: MAT:706, SER:100

SER:105 Residential RE Mounting & Tower Systems   3.0 cr.
This course will provide the students with a comprehensive overview of the tower types used in the wind industry. Tower safety and construction will be the primary focus of this course. Work will include freestanding, guyed and tilt-up towers. A section will include solar mounting systems for use in hybrid systems. This is an applied learning class, with optional tower climbing. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: MAT:706, SER:100

SER:108 Inverters, Chargers and Storage Devices   3.0 cr.
This course will focus on the components used in conditioning the power generated to the various end-use applications. There will be a focus on systems that are on grid, off grid and hybrid. Students will work with batteries, inverters, controllers, grounding systems and pumping applications. This is an applied learning class. (29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: MAT:706, SER:100

SER:109 Monitoring and Maintenance   3.0 cr.
Upon completion of this course students will be well versed in real time and historical monitoring and evaluation of data. The students will learn how to do system repairs and annual maintenance. The primary focus will be on machines from 1kw to 20kw. Students will be exposed to large turbines as well as small turbines. The secondary component of this class will focus on residential and small commerical solar photovoltaic systems. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MAT:706, SER:100

SER:306 Sustainable Energy Capstone   3.0 cr.
This course is project-based and provides students with the opportunity to develop a business plan and to demonstrate their knowledge of the concepts through the designing and developing of a renewable energy project. (19.8 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: SER:102, SER:103, SER:104, SER:105, and SER:108

SOC:110 Introduction to Sociology   3.0 cr.
This course introduces students to a framework of thinking that involves theories in social structure, structural functionalism, symbolic interaction, feminism, and conflict theories, with respect to family, education, economic stratification, poverty, race, ethnic inequality, gender, family, socialization, government, politics, violence, crime and religion. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Social Sciences Area.

SOC:115 Social Problems   3.0 cr.
This course is designed to assist the student in the

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examination of major social problems: personality integration, mental illness, crime and delinquency, alcoholism and drug addiction, family disorganization, problems of the aged, and racial problems. (59.4 Lec. Hrs.)

SOC:120 Marriage and Family   3.0 cr.
This course is a study of the contemporary American family, the interpersonal relationships of family members, the emergence of human personality, and the roles and role expectations of our culture, with emphasis on how they affect the student.. (59.4 Lec. Hrs.)

SOC:160 Introduction to Social Work   3.0 cr.
This course is an introduction to the American social welfare system, the social work profession, and some of the ways social workers help people. Social work's objective is to help people meet their legitimate needs. A society's social welfare system is the set of provisions it makes for the well-being of all its members, not just the poor. (59.4 Lec. Hrs.)
Prerequisite: ENG:013 or minimum English placement score based on college assessment.

SOC:220 Sociology of Aging   3.0 cr.
The course studies aging in terms of four distinct, but interrelated processes: chronological aging, biological aging, psychological aging and social aging. (Same as PSY:226) (59.4 Lec. Hrs.)
Recommended: PSY:121

SOC:230 Juvenile Delinquency   3.0 cr.
Introduces the causes of delinquency and the modification of such behavior by corrective institutions and individual therapy. Emphasis is placed on the study of the development of individual personality through inter-family relationships, antisocial aggressive acts from early abnormal family and social situations. (Same as CRJ:201) (59.4 Lec. Hrs.)

SOC:240 Criminology   3.0 cr.
The study of human behavior and crime, the development of corrections and criminology with sociological and cultural approaches to crime and the career criminal. (Same as CRJ:200) (59.4 Lec. Hrs.)

SOC:251 Social Psychology   3.0 cr.
This course is designed as an evaluation of the theories and the research if individual behavior in the social environment. Topics will include social influence processes, social influence, group behavior, leadership, conformity and attitude formation, and social cognition. (Same as PSY:251) (59.4 Lec. Hrs.)
Prerequisite: PSY:111

SOC:261 Human Sexuality   3.0 cr.
This course is an introduction to the study of the dynamics of human sexuality. Emphasis is given to the physiological, psychological, and social aspects of sexuality. (Same as PSY:261) (59.4 Lec. Hrs.)

SOC:923 Honors Seminar   1.0 – 4.0 cr.
This course is topical and the subject will vary from semester to semester. It is designed to explore critically and creatively selected issues related to the universal themes that inform the human condition. This course can be interdisciplinary and community oriented, and will include a special project applicable to the requirements of the Honors Program.
(19.8 – 59.4 Lec. Hrs. / 0 – 39.6 Lab Hrs.)
Prerequisite: Student must meet the eligibility requirements for entry into the Honors Program, and COM:102, ENG:105, or ENG:107
Corequisite: COM:102, ENG:105, or ENG:107

SOC:928 Independent Study   1.0 – 3.0 cr.
This course provides students with an opportunity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individual student. (39.6 – 118.8 Lab hrs).

**SOC:941 Practicum – Social
Work   1.0 – 3.0 cr.**
Practicum is intended to provide hands-on learning and experience relating theory to practice. Students undertake up to 99 hours of work and observation in settings that meet individual career and academic goals. The college approves sites and faculty members oversee the practicum. Academic assignments accompany the hands-on learning experience. (39.6 – 118.8 Lab Hrs.)
Prerequisite: Minimum Grade Point Average of 2.0 or consent of instructor.

SOC:943 Readings   1.0 – 3.0 cr.
This course is designed to provide additional reading in sociology, allowing the student to obtain a greater understanding in various problem areas in the discipline. This course may be repeated twice for additional credit. (39.6 – 118.8 Lab Hrs.)
Prerequisite: SOC:110

**SPC:101 Fundamentals of Oral
Communication   3.0 cr.**
This course prepares students to create and interpret effective business and personal interactions in a wide variety of contexts. Emphasis is on employment skills by preparing and participating in a mock-job interview. Learning how to manage conflict and interpersonal relationships in the workplace is also a focus of this course. (59.4 Lec. Hrs.)

SPC:111 Public Speaking   2.0 cr.
This course is an introduction to public speaking with emphasis on organization, presentation and listening. Experience in the process and principles of public speaking: audience analysis, selection and organization, style and delivery. Practice in preparation and delivery of informative and persuasive extemporaneous speeches. (39.6 Lec. Hrs.)
This course satisfies a general education requirement in the Communications Area.

SPC:112 Public Speaking   3.0 cr.
This course is an introduction to public speaking with emphasis on organization, presentation, and listening. Students will gain experience in the process and principles of public speaking including audience analysis, selection and organization, and style and delivery. Practice in preparation and delivery of a minimum of 30 minutes of graded informative and persuasive extemporaneous speeches are required. (59.4 Lec. Hrs.)
This course satisfies a general education requirement in the Communications Area.

SPC:114 Advanced Public Speaking   2.0 cr.
This course provides an application of the principles, theory, process and analysis of various methods of speaking including persuasion, composition, audience analysis, propaganda and logical, ethical, and emotional proofs to change attitudes. (39.6 Lec. Hrs.)

**SPC:120 Intercultural
Communications   3.0 cr.**
This course is an introduction to the principles of intercultural communication. Emphasis on the impact of culture on personal identity and communication processes. Students will acquire knowledge and develop skills to help them communicate with a diverse audience. (59.4 Lec. Hrs.)

**SPC:122 Interpersonal
Communication   3.0 cr.**
This course will help you become more aware of who you are and how you relate to and communicate with other people. Elements will include: self esteem, disclosure, perception, listening, verbal and nonverbal communication, persuasion, assertiveness, copin (59.4 Lec. Hrs.)

SPC:132 Group Communication   3.0 cr.
This course offers practical and applicable exercises to improve listening skills, leadership, and open-mindedness to other points of view in various group settings. It examines the theory and techniques used in a variety of group functions and processes that lend to successful group

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communication events. (59.4 Lec. Hrs.)

SPC:170 Professional Communication 3.0 cr.

This course is an introduction to the principles of professional communication. Components include interpersonal, dyad, small group and large group discussion, extemporaneous and impromptu speaking – informative and persuasive. (59.4 Lec. Hrs.)
This course satisfies a general education require-ment in the Communications Area.

SPC:222 Communication for Health Care Professionals 3.0 cr.

This course introduces the theories and skills used to analyze and understand communication variables affecting human relationships, such as teamwork, conflict management, interpersonal communication and nonverbal cues. This course builds competencies and skills relevant to various interpersonal contexts within health care settings. (59.4 Lec. Hrs.)

SPC:928 Independent Study 1.0 – 3.0 cr.

This course provides students with an opportu-nity to complete readings, conduct research, or produce a project under the guidance of a faculty member. Specific course content and assignments will be designed to meet the needs of the individ-ual student. (39.6 - 118.8 Lab hrs).

SUR:110 Introduction to Surgical Technology 5.0 cr

This course provides an introduction to the knowl-edge and skills required for surgical technologies including principles of sterile techniques, the operative care of the surgical patient, and the roles of scrubbing and circulating duties. Application of surgical fundamentals is demonstrated. Theory is correlated to practice by requiring students to participate as members of a surgical team in labo-ratory simulations. (59.4 Lec. Hrs. / 79.2 Lab Hrs.)

SUR:122 Introduction to Surgical Technology 4.0 cr.

This course provides an introduction to the knowl-edge and skills required for surgical technologies including principles of sterile techniques, the operative care of the surgical patient, and the roles of scrubbing and circulating duties. Application of surgical fundamentals is demonstrated. Theory is correlated to practice by requiring students to participate as members of a surgical team in labo-ratory simulations. (59.4 Lec. Hrs. / 39.6 Lab Hrs.)

SUR:225 Surgical Technology II 4.0 cr.

This course is a continuation of Introduction to

Surgical Technology with emphasis on acquiring skills of scrubbing and assisting the circulator during surgical procedures in the operating room and delivery room. Specific areas of study are general surgery, genitourinary, orthopedics, and endocrine system. Students must demonstrate competency in the lab setting of this course and pass a clinical readiness examination in order to proceed to clinical coursework.
(59.4 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CSP:110, SUR:122
Corequisite: SUR:421 and SUR:518

SUR:330 Surgical Technology Specialties 3.0 cr.

This course is a continuation of the surgical tech-nology series and outlines advanced techniques in surgical technology. This course will focus on specifics to all the different surgical specialties. (59.4 Lec. Hrs.)
Prerequisite: SUR:225, SUR:421, and SUR:518
Corequisite: SUR:524

SUR:421 Surgical Technology Pharmacology 1.0 cr.

This course is a study of pharmacology and anes-thesia. It will deal with all aspects of pharmacol-ogy: drug sources, forms, nomenclature, route of administration, classifications, pharmacokinetics, pharmacodynamics, drug handling techniques, identification, supplies needed, transfer of medications to the sterile field, commonly used medications, general anesthesia, nerve conduction clocks, history, and team member roles during anesthesia. (19.8 Lec. Hrs.)
Prerequisite: CSP:110, SUR:122
Corequisite: SUR:225 and SUR:518

SUR:450 Advanced Concepts in Surgical Technology 4.0 cr.

This course is a continuation of the Surgical Technology series. In this course the students will gain knowledge of specific surgeries related to the disease processes. This lecture class will give the students an opportunity to learn about new technology within the surgery arena. Suturing and knot tying will also be presented. (79.2 Lec. Hrs.)
Prerequisite: SUR:330, SUR:524

SUR:518 Clinical I 2.5 cr.

This course provides the student with an intro-ductory hands-on experience at a designated clinical site. Students will be participating in the following activities: preparation, aseptic technique, prioritization of duties, use of time, professional/personal habits, safety/ethical aspects, and skill set. (148.5 Clinical Hrs.)
Prerequisite: CSP:110, SUR:122
Corequisite: SUR:421

SUR:524 Clinical II 6.5 cr.

This course is a continuation of Practicum I and provides the student with advanced hands-on

experience at a designated clinical site. Students will be participating in the following activities: preparation, aseptic technique, prioritization of duties, use of time, professional/personal habits, safety/ethical aspects, and skill set. (386.1 Clinical Hrs.)
Prerequisite: SUR:210 and SUR:518
Corequisite: SUR:330

SUR:528 Clinical 9.0 cr.

This course provides the student with an intro-ductory hands-on experience at a designated clinical site. Students will be participating in the following activities: preparation, aseptic technique, prioritization of duties, use of time, professional/personal habits, safety/ethical aspects, and skill set. (534.6 Clinical Hrs.)
Prerequisite: SUR:210, SUR:330

TDT:111 Commercial Drivers License Regulations 3.0 cr.

This course is designed to deliver all of the information needed for students to pass three Commercial Drivers license (CDL) written exam-inations in the states of Illinois and Iowa: general knowledge, combination vehicle and air brakes. CDL requirements, Department of Transportation (DOT) Rules and Regulations, log books and air brakes will be covered. (59.4 Lec. Hrs.)
Prerequisite: To enroll, the student must provide a copy of their driving record for the past five years, a current physical form verifying completion of a Department of Transportation physical, and verification of a drug screening test.

TDT:112 Commercial Drivers License Regulations 2.5 cr.

This course is designed to deliver all of the information needed for students to pass three Commercial Drivers license (CDL) written exam-inations in the states of Illinois and Iowa: general knowledge, combination vehicle and air brakes. CDL requirements, Department of Transportation (DOT) Rules and Regulations, log books and air brakes will be covered. (49.5 Lec. Hrs.)
Prerequisite: To enroll, the student must provide a copy of their driving record for the past five years, a current physical form verifying completion of a Department of Transportation physical, and verification of a drug screening test.

TDT:130 Commercial Vehicle Operation 7.0 cr.

This course teaches Professional Commercial Vehicle Operators not only the necessary infor-mation to be successful, but how to operate the tractor-trailer combination in a proficient and safe manner. This seven credit hour course continues to deliver the information necessary to become a commercial vehicle operator and also develops the skills and techniques essential to the safe and pro-fessional operation of a commercial vehicle. Final

COURSE DESCRIPTIONS

state skills testing for the insurance of a CDL will be done on campus by SCC certified commercial examiners. (19.8 Lec. Hrs. / 237.6 Lab Hrs.)
Prerequisite: TDT:111 or TDT:112; proof of completion of the Commercial Drivers License written exams in general knowledge, air brakes, and combination vehicles.

TDT:131 Commercial Vehicle Operation   5.0 cr.
This course provides Professional Commercial Vehicle Operators with the necessary information to be successful, and to be able to operate the tractor-trailer combination in a proficient and safe manner. This five credit hour course continues to deliver the information necessary to become a commercial vehicle operator and also develops the skills and techniques essential to the safe and professional operation of a commercial vehicle. (9.9 Lec. Hrs. / 178.2 Lab Hrs.)
Prerequisite: TDT:111 or TDT:112, proof of completion of the Commercial Drivers License written exams in general knowledge, air brakes, and combination vehicles, a current physical form verifying completion of a Department of Transportation physical, and verification of a drug screening test.

WDV:101 Intro HTML and CSS   3.0 cr.
This course 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.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

WDV:132 Mobile Application Development   3.0 cr.
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 website and develop a range of small apps that take advantage of native device functionality. The differences between mobile operating systems (OS) will be explored along with the various distribution methods and publishing requirements currently available.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:169 and CIS:210

WDV:155 Web Prototyping   3.0 cr.
In this course students will learn how to create custom graphics, mockups, wireframes and prototypes for websites using Adobe Fireworks.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)

WDV:221 JavaScript   3.0 cr.
This specialization course will introduce the student to advanced concepts in web development. Students will begin developing skills in scripting JavaScript and Document Object Model (DOM) scripting. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)

WDV:233 Web Servers   3.0 cr.
This course is designed to introduce students to both Microsoft and Linux web servers. Students will learn, compare and contrast the characteristics of each server, their similarities and differences in terms of supporting languages and services necessary to create working websites with different needs in each one of them. Students will also observe an installation of each type of server and perform an installation project.
(39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: CIS:210, NET:303

WDV:245 Content Management Systems I   3.0 cr.
This hands-on course teaches how to plan, design, and produce complete commercially oriented website applications using professional, open source, database-driven web content management software (Joomla). Students will learn to install, modify, and maintain CMS software. Custom site templates will be created using a combination of HTML, CSS, and a front-end development framework. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: Students must be comfortable writing custom HTML and CSS code, be able to purchase a domain name and hosting services from a third-party provider (approx. $100, 2014 dollars), and be able to work both autonomously and in teams.
Prerequisite: WDV:101

WDV:261 Flash   3.0 cr.
This course explores the creation of interactive projects utilizing time-based graphics, sounds animation and video. (39.6 Lec. Hrs. / 39.6 Lab Hrs.)
Recommended: Basic computer competency. Some experience using Mac OS X is useful but not required.

WEL:123 Welding Symbols   1.0 cr.
In this course students will learn the various symbols used in welding.
(19.8 Lec. Hrs.)

WEL:124 Maintenance Welding   3.0 cr.
Designed for the basic needs of the Manufacturing student, including instruction and practice in gas cutting and welding, brazing, arc welding in various positions, and basic MIG welding. Topics also covered include safe use of welding equipment and machinery, abrasive cut-off saws, shears, grinders, and various tools common to the welding field. Designed to teach the student how to weld with different electrodes in all positions. Emphasis is on the E-6010 and E-7018 electrodes. The student safely sets up welding equipment, learns how to adjust it and how to operate it. Learns how to weld and braze in all four positions. The learning experience is also enhanced by cutting freehand with the cutting torch and operating semi-automatic cutting equipment.
(19.8 Lec. Hrs. / 118.8 Lab Hrs.)

WEL:126 Shielded Metal Arc Weld- Basic   4.75 cr.
This course covers basic shielded metal arc welding procedures in the flat position. Variety of hands-on projects/experiments integrates and reinforces theoretical concepts in the laboratory setting. (9.9 Lec. Hrs. / 168.3 Lab Hrs.)

Corequisite: MFG:186

WEL:129 Gas Metal Arc Welding- Basic   4.25 cr.
This course covers safety and metal inert gas (MIG) welding techniques in horizontal, vertical and overhead positions. Variety of hands-on projects/experiments integrates and reinforces theoretical concepts in the laboratory setting.
(9.9 Lec. Hrs. / 148.5 Lab Hrs.)

WEL:136 Oxy-Acetylene Welding and Cutting   4.25 cr.
This course will provide the student with the basic fundamentals of oxy-acetylene welding, cutting, and brazing. It will familiarize the student with the safe operation of the cutting torch, use of different sizes of torch tips, and various weld joints and positions. (9.9 Lec. Hrs. / 148.5 Lab Hrs.)

WEL:192 Gas Tungsten Arc Welding   4.0 cr.
This course focuses on gas tungsten arc welding (TIG) and other related processes. Topics such as process variation, welding in various positions, principle of operation, shielding gases, and filler rods will be studied. Safety and practical application of these welding processes will be stressed.
(39.6 Lec. Hrs. / 79.2 Lab Hrs.)
Prerequisite: MFG:186

WEL:215 Shielded Metal Arc Weld- Adv 1   5.0 cr.
This course will familiarize the student with welding structural steel 1" thick in the flat, vertical up, horizontal, and overhead positions using 7018 and 6010 electrodes. (9.9 Lec. Hrs. / 178.2 Lab Hrs.)
Prerequisite: WEL:126

WEL:256 Gas Metal Arc Welding Basic   4.5 cr.
This course covers safety and Gas Metal Arc Welding (GMAW) techniques in flat, horizontal, vertical and overhead positions. A variety of hands-on projects/experiments integrates and reinforces theoretical concepts in the laboratory setting.
(39.6 Lec. Hrs. / 99.0 Lab Hrs.)
Corequisite: MFG:186

WEL:257 Flux Core Arc Welding   2.5 cr.
This course provides training to develop the manual skills on carbon steels using small diameter and large diameter flux cored electrodes (with and without shielding gas) in all positions on fillet and groove welds. (19.8 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: MFG:186

WEL:258 Shielded Metal Arc Welding Advanced II   5.0 cr.
This course provides training to develop the manual skills necessary to produce quality single V-groove welds (open root) in all positions. This course is designed using E6010 and E7018 electrodes on medium thickness carbon steel.
(39.6 Lec. Hrs. / 118.8 Lab Hrs.)
Prerequisite: WEL:215

WEL:259 Oxy-Acetylene Arc Welding   1.0 cr.

This course uses a variety of hands-on projects/experiments to integrate and reinforce theoretical concepts of oxyacetylene welding in the laboratory setting. (9.9 Lec. Hrs. / 19.8 Lab Hrs.)
Prerequisite: MFG:186

WEL:274 Shielded Metal Arc Welding I: SENSE1   3.0 cr.

This course focuses on safety, amperage settings, polarity and the proper selection of electrodes for the shielded metal arc welding process. Students will perform American Welding Society compliant welds on carbon steel, using visual and destructive methods for determining weld quality. This course aligns to SENSE (Schools Excelling through National Skills Education) Level 1.
(29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Corequisite: MFG:186

WEL:275 Shielded Metal Arc Welding II: SENSE1   3.0 cr.

This course focuses on safety, amperage settings, polarity and the proper selection of electrodes for the shielded metal arc welding process. Students will perform American Welding Society compliant welds on carbon steel, using visual and destructive methods for determining weld quality. This course aligns to SENSE (Schools Excelling through National Skills Education) Level 1.
(29.7 Lec. Hrs. / 59.4 Lab Hrs.)
Prerequisite: WEL:274

WEL:331 Welding Fundamentals   2.0 cr.

This course is designed especially for auto-technology and diesel technology students. The welding processes that will be studied are those that are currently being used in auto and truck repair centers. Competencies that will be developed are intended to provide entry-level skills. This course is not designed to provide the skills required for welding certification. (19.8 Lec. Hrs. / 39.6 Lab Hrs.)

WEL:416 Advanced Gas Metal Arc Welding (GMAW)   2.0 cr.

This course will build advanced skills in Gas Metal Arc Welding. Topics such as spray arc, short-circuit, and pulse welding, process variation, out of position welding, principle of operation, shielding gases, filler metals, and base metals will be covered. Safety and practical application of these welding processes will be stressed.
(19.8 Lec. Hrs. / 39.6 Lab Hrs.)
Prerequisite: WEL:256

WEL:949 Special Topics   1.0 – 6.0 cr.

Students with basic welding knowledge and skills may develop specialized courses of study to meet their individual needs. This course may be repeated for a maximum of 6 credits.
(39.6 - 237.6 Lab Hrs.)

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COMMUNITY COLLEGES

CLINTON ◆ MUSCATINE ◆ SCOTT

THE Community's College

online.
classroom.
Community.

PERSONNEL DIRECTORY

AO = Administrative Offices

ATEEC = Advanced Technology Environmental & Energy Center

BTC = John T. Blong Technology Center

CCC = Clinton Community College

MCC = Muscatine Community College

SCC = Scott Community College

URB = Urban Campus

WDC = West Davenport Center

Abbott, Brian
MCC
Mathematics Instructor
BA, BS, MS, University of Iowa

Abdi, Amensisa
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MS, PhD, University of Cincinnati

Allen, Karen
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Anderson, Heather
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Early Childhood Education
Department Coordinator
BA, Augustana College
MS, Western Illinois University

Anderson, Lorene
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Anson, Michael
MCC
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Archer, Diana
SCC
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Aplington, Jennifer
SCC
Special Needs Specialist

Arends, Paula
IowaWORKS
Workforce Innovation Director

Arends, Tom
SCC
Auto Tech Instructor
AS, Scott Community College
AAS, Scott Community College
ASE, Master Tech

Asleson, Laura
SCC
Accounts Clerk I

Aye, Julianne
AO
Urban Center Manager

Babbitt, Kevin
SCC
Speech/Theatre Instructor
BA, Missouri Southern State University
MA, Southwest Missouri State University
PhD, University of Missouri–Columbia

Bailey, Michelle
SCC
Assistant Dean of Library Services

Bair, Andrew
SCC
Maintenance/Custodian

Baker, John
Faculty Emeritus
BA, Aurora College
MA, PhD, University of Iowa

Baker, Tabitha
SCC
Library Technician

Baker, Mary
Faculty Emeritus
Diploma, Creighton Memorial
St. Joseph's Hospital School of Nursing
BSN, University of Illinois–Chicago
MA, Western Illinois University

Bakeris–Gullion, Mary
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MS, Western Illinois University

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BA, Northeast Missouri State University
MA, Western Illinois University

Ballou, Heather
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Interactive Learning Lab Education Faciltator
MA, Western Illinois University

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Barleen, Steven
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PhD, Northern Illinois University

Barwick, William
MCC
Financial Aid Specialist

Bass, Pam
Faculty Emeritus
BS, MS, University of Iowa

Basti, Zahra
WDC
Career Navigator

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Batten, Alexander
BTC
PACE Career Navigator/Advisor

Baxley, Linda
ATEEC
Director
BA, Rice University
MA, University of Hawaii

Beard, Brittany
SCC
TRIO Success Coach

Bedell, Honey
AO
Chief of Staff

Beinke, Jane
CCC
Executive Assistant

Benson, Bret
URB
Business Management/Accounting,
Management Instructor, Accounting,
Specialist and Administrative and Office
Support Instructor
AA, Black Hawk College
BA, MBA Western Illinois University

Bielski, Anthony
BTC
Concurrent Enrollment Project Managerr

Bielski, Gina
CCC
Speech Instructor
BA, MA, Eastern Illinois University

Bishop, Chad
MCC
Media Production Specialist

Bishop, Rebecca
MCC
Evening College Assistant

Bloom, Elizabeth
IowaWORKS
Employment & Training Counselor

Bluth, Ellen
AO
Vice Chancellor for Workforce and Economic
Development

Boettcher, Dawn
SCC
Associate Dean for Health Programs

Bolton, Catarina
AO
College Customer Service Specialist

Bonte, John
Faculty Emeritus
BA, St. Olaf College
PhD, Iowa State University

Bonte, Martha
Faculty Emeritus
BA, St. Olaf College
MS, Iowa State University

Boyd, Patrick
AO
Research Specialist

Braden, Adrienne
AO
Human Resources Coordinator

Brakel–Packer, Claire
WDC
Assistant Dean of Adult Education and ELL

Bramhall, Raymond
SCC
Automotive Instructor
AAS, Blackhawk College
AAS, Scott Community College

Brattvett, James
AO
Director of Economic Development

Brattvett, Janice
SCC
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Britt, Renae
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Brodersen, Jill
SCC
Mathematics Instructor
BA, St. Ambrose University
MSM, Iowa State University

Brooks, Casey
SCC
District Financial Aid Officer

Budde, Rachel
WDC
HSE Instructor

Buckingham, Sharon
SCC
Customer Service Specialist

Buckley, Gary
SCC
Psychology Instructor
BS, Northeast Missouri State University
MA, Assumption College

Buehner, Colleen
BTC
Business Solutions Consultant & Customer
Service Representative

Burken, Craig
CCC
Welding Instructor
AA, Clinton Community College

Burr, Pat
MCC
Music Instructor
BA, Mount Mercy College
BA, St. Ambrose University
MM, University of Notre Dame

Burt, Andrew
SCC
English Instructor
AA, Seward County Community College
BS, MA, Emporia State University
PhD, Capella University

Busker, Nkemdilim (Kemi)
CCC
Student Engagement and Leadership
Coordinator

Butler, Carrie
SCC
Financial Aid Specialist

Buzzell–Garnica, Nicole
SCC
Education Instructor
BA, Cornell College
MS, Drake University

Calderon–Flores, Anabelia
MCC
Career Services Student Success Specialist /
High School Liason

Campbell, Alan
AO
Associate Director for Communications

Campbell, Kathleen
SCC
Academic Advisor

Campbell, Zachary
MCC
Speech/Communications Instructor

PERSONNEL DIRECTORY

Capion, Ann
URB
Accounting Instructor
MA, University fo Northern Iowa

Carr, Eric
SCC
Social Science Instructor
BA, University of Texas at Austin
MPA, Texas Tech University
MA, Rice University

Carson, David
SCC
TRiO Director

Carton, Theresa
SCC
Academic Advisor

Caves, Christine
BTC
Talent Link Coordinator

Cawiezell, Pat
Staff Emeritus

Cetanyan, Bethann
AO
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Cheak, Patrick
CCC
Graphic Arts Instructor
BS, MFA, Southern Illinois University

Clark, Alicia
CCC
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Clarquist, Donna
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AAS, Illinois Central College
BA, Western Illinois University

Clausen, Emily
CCC
Academic Advisor/Risk Coordinator

Clement, Thalia
CCC
Resource Development Assistant

Cochran, Lyn
SCC
President

Cole, Janet
SCC
IT Help Desk Manager

Cole, Wayne
SCC
Job Placement/Student Success Specialist

Compton, James
MCC
English/Literature/Communications
Instructor
BA, University of Illinois
MA, Northern Illinois University

Cook, Victoria
MCC
Accounts Clerk I

Cornmesser, Rhonda
SCC
Sonography Clinical Coordinator

Cottle, Timothy
AO
Senior Manager of Curriculum & Talent
Development, CE

Courville, Darren
ATEEC
Ellucian Colleague Systems Administrator

Cram Rahlf, Shelly
MCC
Dean of Student Development

Cravens, Steve
SCC
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Cribbs, Torial
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URB
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Cunningham, Carol
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BA, University of Northern Iowa
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CPS

Dabeet, John
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Economics/Statistics Instructor
BA, Bethlehem University, PA
MPA, Kutztown University, PA

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CCC
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Daugherty, Elizabeth
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Development

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SCC
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Davis, Nathan
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Residental Life & Student Engagement

Davis–Day, Donna
AO
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of Workforce Development

DeKeyrel, Billie
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DeWeerdt, Dustin
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Diamond, Bruce
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Dieckman, Julia
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Dierksen, Mary
CCC
Lead Custodian

Diveley–Wiedenmann, Barbara
URB
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Dolan, Janice
IowaWORKS
Operations Coordinator

Doty, Kelley
AO
Employee Benefits and Compensation
Manager

Doucette, Donald
AO
Chancellor

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Drahos, Daniel
MCC
Vet Tech Program Veterinarian
BS, DVM, Iowa State University

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Drury, Melanie
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Duran, Denise
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Elliott, Ashley
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Learning Tree Preschool Manager

Endress, Mathew
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Academic Advisor/Student Support
Coordinator

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Goodman, Terri
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ASE, Master Certified

Hanne, Glo
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Hansen, Margo
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Hanson, Kari
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Herrington, Tishly
AO
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Hess, Susan
URB
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Higgins, Tracy
AO
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Hilbert, Heidi
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Hill, Blaine
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Hilton, Brian
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MA, PhD, Texas A&M University

PERSONNEL DIRECTORY

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AS, Holyoke Community College
BS, MS, PhD, University of Massachusetts–Amherst

Hoaglin, Gina
AO
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Hoft, Bethany
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Math Instuctor
BA, Concordia University Wisconsin

Holler, Jill
MCC
Disability Services & tutoring

Holmes, Michelle
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Holmon–Ellis, Thea
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Hoover, Tammy
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Horan, Sherry
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Humbarger, Hans
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MA, University of Wisconsin at Madison

Hunter, Kenneth
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Department Coordinator–Transportation/Diesel Instructor
AA, Scott Community College

Huntington, Benjamin
MCC
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Ihne, Merie
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Ikoba, Jonathan
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Social Science Department Coordinator/Economics Instructor
BS, University of Liberia
MS, University of Cincinnati
MA, PhD, Northern Illinois University

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Health Informatics Program Facilitiator
BS, University of Cincinnati

Jackson, Larry
URB
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Jacobs, Jan
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AAS, Carl Sandburg College
BS, University of St. Francis
MA, St. Xavier University

Jepson, Cathryn
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Johnson, Brian
CCC
Trade Construction

Johnson, Kenneth
MCC
Physics/Physical Sciences/Environmental
MS, MA +36, University of Iowa

Jones, Dennis
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Kahl, Susan
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Kalar, Becky
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Administrative Assistant I

Kaufmann, Jeffrey
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History/Psychology Instructor, Social Science Department Coordinator
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Keel, Nancy
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MA, University of Denver

Kelley, Katherine
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MA, Western Illinois University

Kelly, Jennifer
AO
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Kerres, Johnna
AO
Marketing Relations Coordinator

Khedr, Lesa
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MA, New Mexico State University

Kimble, Angelique
SCC
Transition Academic Advisor

Kindle, Joan
AO
Vice Chancellor for Education and Training

King, Kelsey
SCC
Admissions Officer

Knight, Gabriel
URB
Business Coordinator/Instructor
MBA, St. Ambrose University

Koch, Gerhard (Jeff)
Faculty Emeritus (posthumously)
BA, Earlman College
MS, University of Iowa

Kothenbeutel, Nancy
Staff Emeritus

Kramer, Christopher
MCC
Welding Instructor
AAS, Southeastern Community College

Kress, Cynthia
MCC
Secretarial Services Assistant, CE

Kunde, Susan
CCC
Lab Assistant I/Math and Science

Lafollette, Iris
Staff Emeritus

PERSONNEL DIRECTORY

Lammers, Susan
BTC
Logistics and Transportation Instructor
MBA, St. Ambrose University

Lampe, Dominique
ATEEC
EHS Coordinator/HSET Trainer
AA, Eastern Iowa Community Colleges
BA, Columbia Southern University

Lance, Lionel
SCC
Computer Technology Support Specialist

Lange, Brandon
WDC
Instructional Technologist
BA, Concordia College, MN
MS, University of Illinois, Urbana–Champaign

Larson, Marcia
CCC
Academic Advisor/ADA Liaison/Retention
Specialist

Lassen, Sarah
SCC
Nursing Instructor
BSN, St. Ambrose University

Lauritsen, John
URB
Maintenance/Custodian

Lawler, Ann
SCC
Interim Dean of Instruction

Legel, Christopher
CCC
Graphic Arts/Multimedia Instructor
BA, University of Wisconsin–Madison
MOL, St. Ambrose University

Leesemann–Johnson, Katja
WDC
Assistant Dean ICCOC Online Operations

Leflora–Douglas, Mammie
URB
Campus Support Assistant

Levsen, Gail
CCC
Senior Executive Assistant to President's/
Dean's Office

Liljequist, James
URB
Computer Technology Support Specialist

Lillibridge, Heather
ATEEC
Help Desk Specialist

Lindberg, John
SCC
Geography Instructor
BA, MS, St. Cloud State University

Lipnick, Robert
SCC
Humanities Department Coordinator/Art
Instructor
BS, University of Maryland
MFA, University of Notre Dame

Liske, Kristin
AO
Administrative Assistant I, EMSC and IT

Longstreth, Lynn
MCC
Financial Aid Officer

Loving, Amy
ATEEC
Nahant Marsh Eco–Education Assistant

Lucewich, Georgeann
SCC
Financial Aid Specialist

Ludvigsen, Debra
AO
Operation Specialist for Allied Health, CE

Lueders, Karen
CCC
Assistant to President for Administration

Luikart, Nancy
MCC
Assistant Dean for Library Services

Lyon, James
SCC
Auto Tech – ACR Lab Assistant

Madsen–Smtih, Amy
CCC
Biology/Math/Science Instructor
BA, St. Louis University
MA, Western Illinois University

Maidlow, Kelly
SCC
Financial Aid Specialist

Marlowe, Jane
Faculty Emeritus
AA, Mount St. Clare College
BA, Marycrest College
MA, The Franciscan University

Martin, Robin
AO
Accounts Receivable Clerk

Martinez, Laura
MCC
Infant Program Supervisor/Food Program
Coordinator

Marvin, Daniel
BTC
Dean of Concurrent Enrollment/CTE

Matter, Jeanne
SCC
Radiologic Technology Clinical Coordinator

Matthew, Lori
Faculty Emeritus
BA, Rockford College
MS Ed., Northern Illinois University

Maxwell, Daniel
SCC
Math Instructor
BS, Pensacola Christian College
BS, Iowa State University
MAT, University of Idaho

Mayes, Paul
Faculty Emeritus
BS, MS, Southern Illinois University
PhD, University of Iowa

McAninch, Thomas
SCC
Criminal Justice/Sociology Instructor
BA, MS, Marshall University
MA, University of Illinois
PhD, Illinois State University

McAvoy, Victor
MCC/Staff Emeritus
Foundation Director

McConnell, Bradley
BTC
Industrial Engineering Technology/CAD–ProE
Instructor
AAS, Morrison Institute of Technology

McDonald, Marshall
Faculty Emeritus
AAS, Muscatine Community College
BS, Southern Illinois University
MS, Southern Illinois University

PERSONNEL DIRECTORY

McGivern, Joann
SCC
Sonography Instructor
AA, Carl Sandburg College

McLaughlin, Jamie
IowaWORKS
Employment and Training Counselor

McLaughlin, Lorene
SCC
Accounting Clerk II

McRae, Reese
SCC
Culinary Instructor
AAS, Scott Community College
Certificate, Culinary Institute of America
Certificate, Department of Labor

Medendorp, Melissa
CCC
Records Clerk II

Meissen, Heather M.
AO/URB
Biology Instructor/Assessment Officer
BS, Iowa State University
PhD, University of Missouri
NDTR

Mendoza, Sergio
AO
Pre-vocational Training Facilitator, CE

Miles, Arlon
AO
HSET Trainer

Miller, Carrie
AO
Operations Administrative Assistant, CE

Miller, Lisa
Staff Emeritus

Mitchell, Robin
MCC
Manager of Registration and Records

Moeller, Karen
AO
Payroll Specialist

Mogab, Lanell
Faculty Emeritus
BS, Southwest Missouri State University
MA, Western Illinois University

Mommsen, Mardell
CCC
Manager of Registration and Records

Moorhead, Ruth
MCC
Lab Assistant I

Morford, Raine
URB
Computer Technology Support Specialist

Morgan, Dan
Faculty Emeritus
BA, Stanford University
MA, PhD, University of Minnesota

Morgan, John
ATEEC
Coordinator/Trainer for Health, Safety, and
Environmental Program

Morgan, LaVetta
BTC
PACE Student Services Assistant

Murphey, David
WDC
HSE Testing Supervisor

Murphy, Julianne
SCC
Nursing Instructor
AS, Kirkwood Community College
BSN, University of Dubuque
MS, University of Iowa

Murray, Nathan
SCC
Mail Room/Copy Center Clerk

Myers, Sally
CCC
Assistant Dean of Library Services

Naab, Jill
SCC
Student Engagement & Leadership
Coordinator

Neal, Jessica
MCC
Academic Advisor

Neavor, Heather
AO
Customer Service Specialist, Call Center

Nelson, Craig
BTC
Renewable Energy Instructor
AAS, Scott Community College

Newell, Stephanie
SCC
English Instructor
AA, Iowa Western Community College
BA, University of Iowa
MA, University of Nebraska

Newman, Isaac
SCC
Psychology/Sociology Instructor
AAS, Saulk Valley Community College
BA, BS, MA, Western Illinois University

Nichol, Barbara
SCC
Dental Assisting Instructor
AA, Scott Community College
RDA, CDA
MA, California University

Nicoletto, Charlene
CCC
PACE Navigator/Advisor

Nielsen, Alice
Faculty Emeritus
BA, Morningside College
MA, University of South Dakota

Noord, James
URB
IT Instructor
MA, Capella University

Oatis, Rashandra
URB
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BTC
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Speech Instructor
BA, Northwestern College
MA, Fuller Theogical Seminary

Ohlendorf, Vernon
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MA, University of Iowa

Oien, Stephanie
MCC
Executive Assistant for Student Services

PERSONNEL DIRECTORY

Oltmanns, Alyssa
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Drama/Theatre Instructor
BA, University of Illinois, Chicago
MA, Ashford University
MFA, Columbia College

Osmers, Roberta
URB
IT Instructor
AAS, Scott Community College
BA, Capella University
MA, Capella University

Othmer, Morgan
SCC
Resource Development Assistant

Overstreet, Brittany
MCC
PACE Career Navigator

Paasch, Kathy
CCC
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Pagano, Philip
MCC
Chemistry Instructor
BS, Northern Illinois University
PhD., University of Iowa

Patzer, Koralee
AO
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Perales, Elida
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WDC
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Perkins, Ty
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English Instructor
BA, MA, Illinois State University

Petrillo, Dominique
ATEEC
HSET Trainer/Program Facilitator

Pezley, Kathy
BTC
Talent Link Intermediary

Pflum, Mallory
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BS, BSN, Creighton University

Phillips, Jan
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AA, Muscatine Community College
BA, Marycrest College
MA, University of Iowa

Pickard, Jeremy
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Dean of Instruction

Pint, Anna
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Math Instructor
MA, University of Northern Iowa

Plautz, Penny
CCC
Maquoketa Center Facilitator

Plummer, Linda
SCC
Academic Advisor

Poston, Brandy
SCC
Executive Assistant to Dean of Operations

Powell, Lisa
MCC
English Instructor
BA, University of South Carolina
MFA, University of Alabama

Putnam Gentz, Theresa
MCC
College and Career Ready Counselor

Ramos, Karen
AO
Campus Support Assistant

Ramsey, Lindsey
AO
Regents Transfer Advisor

Rasmussen, Michelle
WDC
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Rathmann, Tom
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Advisor

Rattin, Anthony
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Biology Instructor
BS, Eastern Illinois University
BS, Governors State University
MS, University of Nebraska

Reidenouer, Cheryl
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AO
Senior Accountant

Rieck, Tyné
AO
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IT Programs, CE

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MCC
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BS, PhD, Palmer College of Chriopractic
MS, New York Chiropractic College

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ATEEC
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BA, Augustana College
MA, Cornell University
PhD, University of Iowa

Robb, Gregg
BTC
CNC Instructor
AA, Scott Community College

Robbins, Thomas
CCC
Custodian I

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Interpreter Training Instructor
BA, Maryville College

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AO
Curriculum & Talent Manager for Community
Programming & Summer Camps, CE

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WDC
Assistant Project Director of Advanced
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PERSONNEL DIRECTORY

Rueling, Shari
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CCC
Accounts Clerk I

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Biology Instructor
BA, Augustana College
MS, Northern Illinois University

Sankar, Raji
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Chemistry Instructor
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BA, MA, Mahatma–Gandhi University

Santos, Mark
CCC
Assistant Dean of Adult Education

Scanlon, Mike
AO
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Schadt, Robert
CCC
Academic Advisor/Career Services

Schar, Raychelle
AO
Technical Assistant for Curriculum

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Schmitz, Brian
CCC
Chemistry Instructor
PhD, University of Rhode Island

Schneider, Scott
WDC
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Schnoor, Dennis
CCC
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Maquoketa Center

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AO
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Schueller, Jennifer
WDC
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MCC
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BTC
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PACE Navigator/Advisor

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CCC
Custodian I

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CCC
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SCC
Dental Assisting Instructor
Diploma, Scott Community College

Singh, Kanchan
URB
Mathematics Instructor
BEd, University of Calgary
MS, University of Western Ontario

Snyder, Andrew
MCC
Admissions Coordinator

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CCC
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AAS, Scott Community College
ASE Master Certified

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Nursing Instructor
ADN, Scott Community College
BSN, University of Illinois Chicago
MHA, Ashford University

Stancil, Brittany
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Nursing Instructor
AS, Clinton Community College
BSN, MSN, Grand Canyon University

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AA, Black Hawk College

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AO
Director of Human Resources

PERSONNEL DIRECTORY

Summers, Lynn
Staff Emeritus

Swanson, Doris
AO
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Sweborg, Jennifer
SCC/WDC
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Tandon, Suteesh
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Teney, Stephen
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PhD, University of South Dakota

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Thompson, Julie
AO
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BA, Cole College
MA, Loras College

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MA, Grand Canyon University

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MS, Western Illinois University

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MAT, University of Iowa

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BS, University of Dubuque
MSM, Iowa State University
MA, Franciscan University

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BA, Bigard Memorial Seminary–Nigeria
MA, PhD, University of Nebraska

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MCC
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Veldman, Denise
SCC
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SCC – Urban Campus
Administrative and Office Support Instructor
AAS, Scott Community College
MA, Nizhny Novgorod State Linguistic
University, Russia

Vickers, Karen
CCC
President/Vice Chancellor of Student
Development

Vogel, Keith
CCC
Facilities Manager

Wakeen, Matthew
SCC
Surgical Technology Program Director,
Instructor
AA, Eastern Iowa Community Colleges

Walker, Jason
MCC
Assistant Dean of Adult Education/ELL

Wallace, David
CCC
Mechatronics Technology Instructor
AAS, Clinton Community College

Walljasper, Lori
Faculty Emeritus
BOG/BA Western Illinois University
MA, University of Iowa

Walthers, Katja
WDC
Assistant Dean ICCOC Online Op

Warner, Chris
SCC
Manager of Network Technology

Warner, Robert
MCC
Facilities Manager

Warrier, Sujata
BTC
IT Programmer/Data Analyst

Washington, Verlee
URB
IT Program Facilitator

Watson, Katherine
MCC
Business Solutions Consultant, CE

Weis, Janice
SCC
Disabilities Resource Person

Weiser, Frank
SCC
Assistant Director of Media Services

Welch, Ryan
CCC
Math/Science Instructor
BA, MS, University of Northern Iowa

Welsch, Cheryl
AO
Dean of Curriculum and Accreditation

Wiegel, Lisa
MCC
Senior Executive Assistant to President

Williams, Andrea
SCC
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BA, MA, University of Northern Iowa

Wilson, LaDrina
SCC
Dean of Student Development

Wood, Elizabeth
CCC
Mathematics Instructor
BS, Western Illinois University
MS, University of Illinois

Young, Melody
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Youngs, Joel
AO
Associate Director of Business and Industry

Youngs, Kathleen
SCC
Accounts Clerk I

Zettel, Susan
AO
Graphics Technician

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