Black Hawk COLLEGE

2004-2006 Catalog

Revised June, 2004
Vision
Total accessibility, quality instructional programs, student-centered services, and strategic alliances position Black Hawk College as the preferred choice for education and training.

Mission
Black Hawk College provides the environment and resources for individuals to become lifelong learners.

Core Values
Appreciation of Diversity, Caring and Compassion, Fairness, Honesty, Integrity, Respect, and Responsibility.

Student Learning and Assessment
Black Hawk College is committed to providing a learning-centered environment. Faculty are interested in students’ mastery of course content as well as the process by which students acquire knowledge. Students develop skills and adapt concepts that will support them throughout life as effective citizens as well as professionals in their fields.

The assessment of student learning is one very important component of a learning-centered environment. Assessment is an ongoing, systematic process that measures student learning. Through feedback processes, this assessment also provides a means to improve student learning at Black Hawk College.

The assessment of student learning includes:
• Developing outcomes for student learning
• Selecting appropriate assessment measures
• Systematically collecting, analyzing, and interpreting these measures
• Using feedback loops to make changes to improve student learning

Students play a significant role in their learning and the assessment process. They are provided opportunities to learn how the assessment process works, how the results will benefit them, and how to become active participants in the process.

Black Hawk College Accreditation
Black Hawk College is accredited or approved by:
• The Higher Learning Commission, Commission of the North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 24000, Chicago, Illinois 60602-2504, (312) 263-0456, http://www.ncahigherlearningcommission.org/. Any questions regarding the accreditation of Black Hawk College may be directed to this agency at the address and phone number listed here.
• Illinois Board of Higher Education
• Illinois Community College Board
• Illinois State Board of Education
From the President of Black Hawk College

Welcome to Black Hawk College. As you may have read previously in this publication, Black Hawk College has a vision to be your preferred choice for education and training. We strive to reach that vision by providing programs and services to give you the knowledge, skills, and support you need to accomplish your educational objectives. Whether those objectives are to get a great start on a four-year degree, earn an associate's degree, complete a career program, or meet a more immediate short-term training need, Black Hawk College seeks to provide the best atmosphere and necessary resources for successful student learning.

Black Hawk College employees are dedicated to helping you achieve success and encourage learning within an environment based on a set of college wide core values. Faculty members bring their expertise and often their industry-based experiences to the classroom to help you understand how information learned in the classroom is applicable in the field of work. Individualized attention and small class size make learning personal and help students reach their highest learning potential and develop into successful graduates and employees.

Another way we work to ensure student success is by assessing student learning as an ongoing and critical part of processes here at Black Hawk College. Systematically collecting and analyzing outcomes and feedback leads to enhanced learning and the development of new programs, improved student support, and innovations in course delivery methods.

On behalf of the Black Hawk College faculty and staff, I welcome you into your educational program and pledge to provide an environment where you will learn, grow, and develop as students, individuals, and global citizens.

Keith Miller, Ph.D.
# Quick Reference Table of Contents

- **Catalog Disclaimer**: ................................................................. 11
- **Admission Information**: ............................................................ 14
- **Tuition and Fee Information**: ..................................................... 17
- **Financial Aid**: .......................................................................... 22
- **Graduation Requirements**: ....................................................... 38
- **Career Programs**: ..................................................................... 55
- **Transfer Programs**: ................................................................. 101
- **Course Descriptions**: ............................................................... 134
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vision</td>
<td>2</td>
</tr>
<tr>
<td>Mission</td>
<td>2</td>
</tr>
<tr>
<td>Core Values</td>
<td>2</td>
</tr>
<tr>
<td>Student Learning and Assessment</td>
<td>2</td>
</tr>
<tr>
<td>Black Hawk College Accreditation</td>
<td>2</td>
</tr>
<tr>
<td>2004-2005 Academic Calendar</td>
<td>9</td>
</tr>
<tr>
<td>2005-2006 Academic Calendar</td>
<td>10</td>
</tr>
<tr>
<td>College Information &amp; Policies</td>
<td>11</td>
</tr>
<tr>
<td>Catalog Disclaimer</td>
<td>11</td>
</tr>
<tr>
<td>Governance</td>
<td>11</td>
</tr>
<tr>
<td>Affirmative Action</td>
<td>11</td>
</tr>
<tr>
<td>Freedom of Information Act</td>
<td>11</td>
</tr>
<tr>
<td>Student Right to Know</td>
<td>11</td>
</tr>
<tr>
<td>Facilities</td>
<td>12</td>
</tr>
<tr>
<td>Quad-Cities Campus</td>
<td>12</td>
</tr>
<tr>
<td>East Campus</td>
<td>12</td>
</tr>
<tr>
<td>Outreach Centers</td>
<td>12</td>
</tr>
<tr>
<td>Parking</td>
<td>13</td>
</tr>
<tr>
<td>Admission Information</td>
<td>14</td>
</tr>
<tr>
<td>Admission Policy</td>
<td>14</td>
</tr>
<tr>
<td>Concurrent Enrollment of High School Students</td>
<td>14</td>
</tr>
<tr>
<td>Dual Enrollment of High School Students</td>
<td>14</td>
</tr>
<tr>
<td>Application for Admission</td>
<td>14</td>
</tr>
<tr>
<td>High School or GED Transcripts</td>
<td>14</td>
</tr>
<tr>
<td>Subject-Specific Admissions Requirements for Students</td>
<td>14</td>
</tr>
<tr>
<td>Entering Baccalaureate Programs beginning in the Fall of 1993</td>
<td>15</td>
</tr>
<tr>
<td>Admission of Transfer Students</td>
<td>15</td>
</tr>
<tr>
<td>BHC/NIU Dual Admission</td>
<td>15</td>
</tr>
<tr>
<td>BHC/WIU Dual Admission</td>
<td>15</td>
</tr>
<tr>
<td>Admission of International Students and Non-Native Speakers</td>
<td>15</td>
</tr>
<tr>
<td>English</td>
<td>15</td>
</tr>
<tr>
<td>Admission Denial</td>
<td>16</td>
</tr>
<tr>
<td>Tuition and Fee Information</td>
<td>17</td>
</tr>
<tr>
<td>Residency</td>
<td>17</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>17</td>
</tr>
<tr>
<td>Cooperative Educational Agreements</td>
<td>18</td>
</tr>
<tr>
<td>Refund Policy</td>
<td>20</td>
</tr>
<tr>
<td>Return of Federal Financial Aid Policy</td>
<td>21</td>
</tr>
<tr>
<td>Reservists Called to Active Duty</td>
<td>21</td>
</tr>
<tr>
<td>Senior Citizens Tuition Waiver</td>
<td>21</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>21</td>
</tr>
<tr>
<td>Financial Arrears</td>
<td>21</td>
</tr>
<tr>
<td>Deferred Payment Program</td>
<td>21</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>22</td>
</tr>
<tr>
<td>Application Procedures</td>
<td>22</td>
</tr>
<tr>
<td>Academic Progress</td>
<td>22</td>
</tr>
<tr>
<td>Black Hawk College Scholarships and Achievement Awards</td>
<td>22</td>
</tr>
<tr>
<td>State Funded Financial Aid</td>
<td>22</td>
</tr>
<tr>
<td>Federal Funded Financial Aid</td>
<td>23</td>
</tr>
<tr>
<td>Veterans' Benefits</td>
<td>23</td>
</tr>
<tr>
<td>Endowed Scholarships Quad-Cities Campus</td>
<td>23</td>
</tr>
<tr>
<td>Endowed Scholarships East Campus</td>
<td>25</td>
</tr>
<tr>
<td>Assessment and Orientation</td>
<td>27</td>
</tr>
<tr>
<td>Assessment Placement Guidelines</td>
<td>27</td>
</tr>
<tr>
<td>Computer-Aided Drafting</td>
<td>28</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>28</td>
</tr>
<tr>
<td>Registration</td>
<td>29</td>
</tr>
<tr>
<td>Student Responsibilities</td>
<td>29</td>
</tr>
<tr>
<td>Student Handbook</td>
<td>29</td>
</tr>
<tr>
<td>Auditing</td>
<td>29</td>
</tr>
<tr>
<td>Maximum Course Load</td>
<td>29</td>
</tr>
<tr>
<td>Cancellation of Courses</td>
<td>29</td>
</tr>
<tr>
<td>Student Records</td>
<td>30</td>
</tr>
<tr>
<td>Records Policy</td>
<td>30</td>
</tr>
<tr>
<td>Deficiency Reports</td>
<td>30</td>
</tr>
<tr>
<td>Transcripts</td>
<td>30</td>
</tr>
<tr>
<td>Change of Address</td>
<td>30</td>
</tr>
<tr>
<td>Denial of Enrollment</td>
<td>30</td>
</tr>
<tr>
<td>Transcript Retention</td>
<td>30</td>
</tr>
<tr>
<td>Academic Information and Regulations</td>
<td>31</td>
</tr>
<tr>
<td>Grading System</td>
<td>31</td>
</tr>
<tr>
<td>Cheating and Plagiarism Policy</td>
<td>31</td>
</tr>
<tr>
<td>Repeat Policy</td>
<td>32</td>
</tr>
<tr>
<td>Class Attendance</td>
<td>32</td>
</tr>
<tr>
<td>Children in Class</td>
<td>32</td>
</tr>
<tr>
<td>Withdrawals</td>
<td>32</td>
</tr>
<tr>
<td>Academic Standards</td>
<td>33</td>
</tr>
<tr>
<td>Baccalaureate/Transfer Course Guarantee</td>
<td>33</td>
</tr>
<tr>
<td>Occupational Program Guarantee</td>
<td>33</td>
</tr>
<tr>
<td>Conferring Degrees and Certificates</td>
<td>34</td>
</tr>
<tr>
<td>Calendar</td>
<td>34</td>
</tr>
<tr>
<td>Unit of Credit</td>
<td>34</td>
</tr>
<tr>
<td>Student Classification</td>
<td>34</td>
</tr>
<tr>
<td>Honors Information</td>
<td>34</td>
</tr>
<tr>
<td>Non-Traditional Credit</td>
<td>35</td>
</tr>
<tr>
<td>Departmental Proficiency</td>
<td>35</td>
</tr>
<tr>
<td>Portfolios</td>
<td>35</td>
</tr>
<tr>
<td>Advanced Placement Program</td>
<td>35</td>
</tr>
<tr>
<td>College Level Examination Program</td>
<td>36</td>
</tr>
<tr>
<td>Armed Service Experience</td>
<td>37</td>
</tr>
<tr>
<td>High School Articulation</td>
<td>37</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>38</td>
</tr>
<tr>
<td>Illinois Articulation Initiative Agreement (IAI)</td>
<td>38</td>
</tr>
<tr>
<td>Purpose of General Education</td>
<td>38</td>
</tr>
<tr>
<td>Graduation</td>
<td>38</td>
</tr>
<tr>
<td>Associate in Arts/Associate in Science</td>
<td>38</td>
</tr>
<tr>
<td>Associate in Applied Science</td>
<td>41</td>
</tr>
<tr>
<td>Associate in Liberal Studies</td>
<td>42</td>
</tr>
<tr>
<td>Career Program Certificates</td>
<td>44</td>
</tr>
<tr>
<td>Transfer of Graduates</td>
<td>45</td>
</tr>
<tr>
<td>Transfer Center</td>
<td>45</td>
</tr>
<tr>
<td>Transfer Programs</td>
<td>45</td>
</tr>
<tr>
<td>Career Programs</td>
<td>45</td>
</tr>
<tr>
<td>Transfer of Courses</td>
<td>45</td>
</tr>
<tr>
<td>Services to Students</td>
<td>46</td>
</tr>
<tr>
<td>Advisement Services</td>
<td>46</td>
</tr>
<tr>
<td>Career Services</td>
<td>46</td>
</tr>
<tr>
<td>Child Care</td>
<td>47</td>
</tr>
<tr>
<td>Counseling</td>
<td>47</td>
</tr>
<tr>
<td>Disability Accommodations</td>
<td>47</td>
</tr>
<tr>
<td>Enrollment Services</td>
<td>47</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>47</td>
</tr>
<tr>
<td>Housing</td>
<td>47</td>
</tr>
<tr>
<td>Independent Learning Center (ILC)</td>
<td>48</td>
</tr>
</tbody>
</table>
Intercollegiate Athletics ....................................................... 48
Libraries .............................................................................. 48
Intercultural and Community Affairs .................................. 48
Student Activities ............................................................... 48
Student Success Center ..................................................... 48
Flexible Learning Options .................................................. 49
Evening College ................................................................. 49
Weekend College ............................................................. 49
Going the Distance Telecourses ......................................... 49
Online Learning ................................................................. 49
Study Unlimited ................................................................. 49
Interactive Television ........................................................ 50
Illinois Virtual Campus ..................................................... 50
Minimester .......................................................................... 50
International Study Programs .......................................... 51
Study Abroad Opportunities .............................................. 51
International Field Study Programs ...................................... 51
International Studies Certificate ......................................... 51
International Business Curricula .......................................... 51
Intercultural and Community Affairs .................................. 52
Strategies and Objectives of Intercultural and Community Affairs ............................................................. 52
Bridges ............................................................................... 52
Intercultural and Community Affairs Newsletter ............... 52
Clubs and Organizations ..................................................... 53
Scholarship Opportunities ................................................... 54
College Awards and Recognition ........................................ 54
Career Program Descriptions ............................................. 55
Agriculture Curricula ......................................................... 56
Agribusiness Management .................................................. 57
Agribusiness Management—Crop Protection Technology Option ................................................................. 57
Agriculture Production Technology .................................... 58
Agriculture Production ....................................................... 59
Equestrian Science ............................................................. 59
Horse Science Technology .................................................. 59
Horse Science Technology Certificate ............................... 60
Business Curricula ............................................................. 61
Articulation ......................................................................... 61
Accounting Clerk ............................................................... 62
Accounting Specialist ......................................................... 62
Administrative Assisting ..................................................... 63
AS/400 Programmer Certificate .......................................... 63
Broadcasting ........................................................................ 63
Business Information Technology ................................ .... 64
Business Information Technology Certificate .................... 64
Business Management and Marketing ................................ 65
Computer Information Programmer .................................... 65
Financial Services Management ....................................... 66
Banking and Finance Certificate ....................................... 66
Health Information Management ..................................... 67
Information Processor ....................................................... 67
Information Technology Specialist Certificate ................... 68
International Trade ............................................................ 68
Lead Employee ..................................................................... 68
Legal Office Professional .................................................. 69
Medical Billing Specialist ................................................... 69
Medical Coding Specialist ................................................... 70
Medical Transcription ....................................................... 70
PC Application Programmer Certificate ............................. 71
Team Leader ....................................................................... 71
Technical Communication .................................................. 71
Visual Communication ....................................................... 72
Web Developer Certificate ................................................... 73
Web Programmer ............................................................... 73
Health Related Curricula ..................................................... 74
Associate Degree Nursing .................................................... 75
Basic Nurse Assistant Training Program ............................ 76
Emergency Medical Services ............................................. 76
Physical Therapist Assistant .............................................. 77
Practical Nursing ............................................................... 77
Radiologic Technology ....................................................... 78
Child Development ............................................................. 79
English as a Second Language .......................................... 80
Trade and Technical Programs .............................................. 81
Apprentice Training Programs ............................................. 81
Automotive Repair Technology .......................................... 81
Automotive Repair ............................................................. 82
Brake Specialist ................................................................. 82
Wheel Alignment and Suspension Specialist ....................... 83
Air Conditioning Specialist ............................................... 83
Agriculture Mechanics Technology .................................... 83
Agriculture Mechanics ....................................................... 84
CAD/CAM-Manufacturing Technology ............................... 84
CAD Certificate: 3D-Modeling .......................................... 84
CAD Certificate ................................................................. 85
Computer Operation and Equipment Repair ....................... 85
CNC Machine Tool Programming ..................................... 85
Civil Technology ............................................................... 85
Electro-Mechanical Technology ......................................... 86
Fire Service Officer ............................................................ 86
Law Enforcement Technology .......................................... 87
Manufacturing Technology ................................................ 88
Machine Tool Operations .................................................. 88
Machine Tool Production .................................................. 88
Microcomputer Support Specialist .................................... 89
Microsoft Networking Engineer ......................................... 90
Network Technician .......................................................... 90
Truck Driving ................................................................. 98
Welding .............................................................................91
Scott Community College Cooperative Programs ............ 92
Auto Collision Repair .......................................................... 92
Aviation Concentration ..................................................... 93
Culinary Arts Apprenticeship ............................................. 93
Dental Assisting ............................................................... 94
Diesel Technology ............................................................. 94
Electroneurodiagnostic (END) Technology ......................... 95
Environmental Compliance and Technology ...................... 95
Heating, Ventilating and Air Conditioning .......................... 96
Interior Design ............................................................... 97
Sign Language Interpreter .................................................. 97
Lincoln Land Community College Cooperative Program .... 99
Aviation Mechanics Program ............................................. 99
Certificate of Course Completion ......................................... 100
International Studies ........................................................ 100
Transfer Programs ............................................................. 101
The Compact Agreement ................................................... 101
Graduating at Black Hawk ............................................... 101
Academic Advising ........................................................... 101
Degree Planning Worksheets ............................................. 101
Liberal Arts and Science Transfer Program ....................... 102

Accounting Transfer ..............................................................102
Agriculture Transfer ...............................................................103
Anthropology-Archaeology ..................................................103
Art .........................................................................................104
Biological Science .................................................................104
Broadcasting ...........................................................................105
Business Transfer .................................................................105
Business Transfer International Business ...........................106
Chemistry ...............................................................................106
Pre-Chiropractic .....................................................................107
Computer Science Information Systems ..............................107
Computer Science .................................................................108
Earth Science ..........................................................................108
Earth Science Geology ..........................................................109
Education Pre-Teaching .........................................................109
Pre-Engineering ......................................................................110
English Literature .................................................................111
English Writing .......................................................................111
Environmental Management ..................................................112
French .....................................................................................112
German ....................................................................................113
Health, Physical Education, and Recreation .......................113
History ....................................................................................114
Japanese ................................................................................115
Journalism ...............................................................................115
Pre-Law ...................................................................................116
Law Enforcement Transfer .................................................116
Mathematics ............................................................................117
Pre-Medicine ............................................................................117
Music .......................................................................................118
Pre-Pharmacy .........................................................................120
Philosophy ...............................................................................120
Political Science ......................................................................121
Psychology ...............................................................................121
Public Relations .......................................................................122
General Social Services .........................................................122
Sociology ..................................................................................123
Spanish .....................................................................................123
Speech .......................................................................................124
Theatre .....................................................................................124

Reaching Out to the Community ........................................126
Adult Education .......................................................................126
Instructional Programs .........................................................126
Support Programs .................................................................127
Business and Community Education Center (BCEC)

Classes ....................................................................................127
Professional and Career Development ................................127
ASTD Human Performance Improvement Certificate Program ................................................................................................................................. 128
Travel, Tourism & Hospitality Certificate Program .............129
Massage Therapy Certificate Program ................................130
Health Care Certificate Programs .........................................130
Leadership & Training Plans .................................................131
Workforce Training ...............................................................131
Online Classes .........................................................................131
Computer Classes .................................................................131
Community Education ............................................................131
Community-Based Programs & Workshops ........................131
Community Conferences & Workshops ..............................131
Seniors Program .....................................................................132
Adventures in Learning – Youth Classes .............................132

College For Kids ....................................................................132
BCEC Registration Procedures ............................................132
Small Business Development Center ...................................133
International Trade Center ....................................................133

Course Descriptions ................................................................134
Classification of Courses .......................................................134
Accounting .............................................................................134
Agriculture ............................................................................135
Banking ..................................................................................135
Anthropology .........................................................................141
Archaeology ............................................................................141
Art ..........................................................................................142
Astronomy ...............................................................................143
Automotive Mechanics .........................................................144
Business Administration .......................................................144
Business Education ..............................................................147
Biology ....................................................................................150
Business Law ..........................................................................151
Carpenter Apprentice ............................................................151
Child Development ...............................................................152
Chemistry ...............................................................................153
Computer Information Processing .....................................153
Computer Operation and Equipment Repair .....................156
Communications ....................................................................156
Criminal Justice .......................................................................156
Computer Science .................................................................157
Civil Technology .....................................................................157
Economics ...............................................................................158
Education ...............................................................................158
Emergency Medical Services ..............................................158
English ....................................................................................160
English as a Second Language .............................................162
Electronics Technology .......................................................164
Equestrian Science ...............................................................166
French .....................................................................................167
Fire Service Officer ...............................................................168
Engineering .............................................................................168
Geography ...............................................................................168
Geology ...................................................................................169
German .....................................................................................169
General Technology ...............................................................169
Health Careers .........................................................................170
Health .....................................................................................170
History ....................................................................................170
Health, Physical Education and Recreation .......................171
Horticulture ............................................................................174
Horticulture ............................................................................175
Independent Study ...............................................................176
International Studies .............................................................176
Italian .....................................................................................176
Japanese ................................................................................176
Journalism ...............................................................................177
Latin .......................................................................................177
Law Enforcement .................................................................177
Liberal Studies .........................................................................177
Mathematics ............................................................................177
Mechanical Drafting .............................................................180
Mechanics .............................................................................180
Military Science .......................................................................180
Manufacturing Technology ..................................................181
Music .......................................................................................182
**2004-2005 Academic Calendar**

<table>
<thead>
<tr>
<th>July 2004</th>
<th>January 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mon</strong></td>
<td><strong>Mon</strong></td>
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<td>31</td>
<td>31</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>August 2004</th>
<th>February 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mon</strong></td>
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**Key Abbreviations:**

- O: All College orientation days
- S: First contact day of semester
- SS: First contact day of Summer I
- M: Semester Mid-Date
- F: Final Examinations
- H: Holiday (all facilities closed)
- V: Vacation (College open, no classes)
- R: Recess for academic year faculty
- CQ: Commencement – Quad-Cities
- CE: Commencement – East
### 2005-2006 Academic Calendar

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College Information & Policies

Catalog Disclaimer

This Catalog is effective July 1, 2004 to June 30, 2006.

This catalog is for informational purposes only and does not constitute a contract. Black Hawk College has made every reasonable effort to determine that everything stated in this catalog is accurate at the time of printing. However, the College reserves the right to change, modify, or alter without notice all fees, charges, tuition, expenses, and costs of any kind and further reserves the right to add or delete without notice any course offering or information contained in this catalog, including the rules controlling admission to, instruction in, and graduation from College or its various divisions. Such changes become effective whenever the College deems necessary and apply not only to prospective students but also to those currently enrolled.

Governance

Black Hawk College operates at two primary campuses, one located in the Quad-Cities and one located near Kewanee, and at a number of additional instructional centers throughout the District. The College operates under the guidelines of the Illinois Community College Board and the North Central Association of Colleges and Secondary Schools of the Higher Learning Commission and adheres to Federal and State Civil Rights Laws, including Affirmative Action and Equal Opportunity. The responsibility for the governance, administration and operation of Black Hawk College is vested in the elected Board of Trustees of Community College District 503. The Board of Trustees delegates responsibility to the administration, faculty and staff for the practices and procedures which accomplish the mission of the College.

Affirmative Action

Black Hawk College does not discriminate on the basis of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, age, physical or mental disability unrelated to ability, unfavorable discharge from military service or status as a disabled veteran or Vietnam-era veteran, in the recruitment and admission of students, the recruitment and employment of faculty and staff, or the operation of its educational programs as specified by Federal laws and regulations. The coordinator for compliance is Dr. Kim E. Armstrong, 796-5006 (email: armstrongk@bhc.edu).

Freedom of Information Act

Black Hawk College has established a "Freedom of Information Act” center at each campus location, providing the public with the opportunity to request information on many facets of College activity. Forms are provided for submission of requests, and prompt response and processing is assured by full compliance with the Freedom of Information legislation enacted by the state of Illinois in 1984. Contact the Public Information Office for more information.

Student Right to Know

Graduation and Transfer Rates For information regarding completion rates, contact the Research and Planning Office on the Quad-Cities Campus in Building 1.

Campus Security Act For information, contact the Public Safety Office on the Quad-Cities Campus in Building 3, Room 315. (This information is published in compliance with Public Law 101-542.)
Facilities

Black Hawk College is one of 48 community colleges in Illinois. The College serves all or part of nine counties in northwestern Illinois with a population of more than 225,000 residents.

The College's District office is located on the Quad-Cities Campus in Moline, while the East Campus is located five miles south of Kewanee, Illinois.

Operated as one college with two campuses and several Outreach sites, Black Hawk offers more than 50 liberal arts and sciences curricula in the transfer area and more than 80 career track programs leading to degrees and certificates. The College also offers a wide range of special purpose and community service (outreach) programs.

Black Hawk College is a non-resident institution but offers a full array of recreational and athletic programs on each campus. Teams compete in the Arrowhead Athletic Conference of community colleges.

Quad-Cities Campus

The campus is situated on a park-like 161-acre site on the south edge of Moline. Four modern, well-equipped buildings are accessible to the physically challenged, and provide excellent facilities for both the education and recreation of students.

Modern classrooms and constantly updated, well-equipped laboratory facilities optimize the educational opportunities for students at the Quad-Cities Campus. District offices and the computer center are located in Building #1, which also houses the library, several computer labs, and student services, which include Counseling, Advising, Tutoring Assistance, Testing, Enrollment Services, Bursar's Office and Financial Aid. There are also several classrooms and a large lecture hall. English, Philosophy, Foreign Language, Social and Behavioral Studies, Business, and Computer Information Technology departments are also located in Building #1.

The Manufacturing, Science and Business career departments are in Building #2, which also houses four interactive television rooms capable of video conferencing throughout the state as well as globally, and WQPT, the College's public television station. Licensed to Black Hawk College, the station provides nearly 400,000 households with quality, commercial-free PBS programs and local public affairs and cultural specials.

Building #3 houses Math, Speech, Allied Health, Nursing, and the Health and Physical Education departments. It also houses two gymnasiums, a swimming pool, an indoor track and a fitness center, along with the Athletic Director, Hospitality Services, and Public Safety department. In the Direct Services addition to this building is the College Bookstore, Marketing/Media Services Office, Alumni Office, Foundation Office, Public Information Office, Campus Services, and Shipping and Receiving Office.

Art and Music are in Building #4. This building also houses Food Service, Student Government Association, and the student newspaper, The Chieftain.

The Center for Early Learning provides on-site child care facilities for youngsters ages 2 to 6 while their parents attend classes. The Center also serves as a training site for child development instruction.

East Campus

The East Campus of Black Hawk College is located on a beautiful 102-acre partially wooded site approximately five miles south of Kewanee.

The East Campus includes a building that serves as a nucleus for campus life. Four other buildings on campus provide additional classroom and general space for College and community activities. A complete automotive laboratory, a learning resources center, a computer center, and a fitness center provide for the development of varied academic and career interests. The recent addition of a greenhouse provides hands-on experience for horticulture students. An agriculture center provides laboratory and classroom space in three buildings for the College's nationally renowned agriculture programs. The center also serves area clubs and agricultural related organizations.

Outreach Centers

The College operates two Outreach Centers – one in the Quad-Cities and one in Kewanee, Illinois. These facilities offer adult basic and continuing education courses, general education development (GED), alternative education classes, business and industrial training, and special community programs. The Quad-Cities Outreach Center is located 301 Avenue of the Cities, East Moline and includes two fully equipped IBM computer labs, and a multi media training room for customized training. The East Campus Outreach Center is located at 229 South Main Street, Kewanee, (309) 852-0796.

Other outreach facilities include:

The Quad-Cities Training Center, 3010 4th Avenue, East Moline, is where law enforcement, fire service officer, and child development classes are taught.

The Illinois Employment and Training Center (IETC), 4703 16th Street, Moline, provides a one-stop center where the public can easily access a broad array of services related to employment and training. These services include a career resource center, job openings and placement, unemployment
insurance, training and services for dislocated workers and persons on public assistance, upgrading skills, adult basic skills, general education development (GED) preparations, and referral information for other needs. The Small Business Development Center and International Trade Center are housed at the IETC to serve the small business community.

The **Black Hawk College Technology Center** is located in the Watch Tower Plaza at 3930 11th Street, Rock Island. Adult learning for students at least 16 years old, college credit classes, customized classes for business and industry, and continuing education classes for the community are offered in modern classrooms and state-of-the-art computer labs.

### Parking

At the Quad-Cities Campus, parking tags are required for all students wanting to park in Lots #1, #2, or #3. These tags can be purchased each semester from the Public Safety Office or other posted areas at time of registration. No tag is required to park in Lot #4. Parking tags are not required at East Campus or other College locations.

A complete list of parking rules and regulations is available in the Public Safety Office on the Quad-Cities Campus and in the Office of Educational Services on the East Campus.
Admission Information

**Admission Policy**
Black Hawk College maintains an "open door" admission policy that provides access to higher education for those individuals who can benefit from its programs and courses. This policy includes the following:

- High school graduates or those with a GED Certificate.
- Anyone 18 years of age and older.
- Transfer students from other colleges and universities.

In addition, the following categories of students may be admitted with the approval of the Director of Enrollment Services at the Quad-Cities Campus or the Director of Educational Services at the East Campus:

- High school students 16 or 17 years of age who obtain prior approval from the high school in which they are currently enrolled. In addition, prior approval of parent/guardian is required.
- Young adults 16 or 17 years of age who have severed all connections with the high school district in which they are a legal residents. Prior approval of parent/guardian is required.
- Students below 16 years of age in a gifted or accelerated program who obtain prior approval from their high school district. In addition, prior approval of parent/guardian is required.

Additional information regarding Early Entry enrollment may be obtained from the Enrollment Services Office.

**Concurrent Enrollment of High School Students**
Although the primary function of the College is to serve students of post high school age, there are circumstances that justify enrollment of students who are still attending high school. Students still attending high school who are at least 16 years of age must receive approval from high school representatives and parents.

A "Permission to Attend Form" must be completed and signed by a parent or guardian, by the high school principal, or his/her representative, and by the Director of Enrollment Services at Black Hawk College. This form is available at the Enrollment Services Office or the local high school. Every attempt should be made to have the form submitted to the College Enrollment Services Office at least two weeks prior to enrollment.

**Dual Enrollment of High School Students**
High school students age sixteen (16) or older who meet the necessary placement requirements and course prerequisites may enroll in Black Hawk College courses held on campus, at one of the College’s extension sites, or, in some cases, at the high school. College credit will be granted for each successfully completed course. The determination of whether a college course is offered for high school credit is made at the secondary level according to the policies and practices of each school district.

**Application for Admission**
Every person who is enrolling for the first time must submit an application for admission. Anyone having previously attended Black Hawk College and wishing to return after an absence of two years must complete another application for admission. When possible, applications should be submitted at least one week prior to registration or an assessment test.

Application forms may be obtained from the Enrollment Services Office at the Quad-Cities Campus, the Admissions Office at the East Campus, high school counselors, and online at [http://www.bhc.edu/](http://www.bhc.edu/).

**High School or GED Transcripts**
If you meet any of the following conditions, a final high school or GED transcript must be submitted to the Enrollment Services Office at the Quad-Cities Campus or the Admissions Office at the East Campus. The transcript must be sent directly from the high school (high school transcript) or the regional superintendent’s office (GED transcript) when you:

- graduate from high school or earn a GED diploma within one year prior to enrolling at Black Hawk College.
- intend to complete a degree or certificate at Black Hawk College.
- apply for federal financial assistance.
Note: A partial transcript must be provided if you plan to enroll at Black Hawk College before a final transcript is available. A final transcript must be submitted upon graduation.

Subject-Specific Admissions Requirements for Students Entering Baccalaureate Programs beginning in the Fall of 1993

Individuals considering enrollment at Black Hawk College are advised that the Illinois Board of Higher Education has established the following high school course distribution requirements for all students admitted to baccalaureate programs beginning in the fall term of 1993:

- 4 years of English
- 3 years of mathematics
- 3 years of social sciences
- 3 years of science (with laboratories)
- 2 years of foreign language, music, or art

As an open admissions community college, students will be admitted to Black Hawk College without these courses. However, students in certain programs may be required to take additional courses as prerequisites.

Admission of Transfer Students

Academic credit is generally accepted only from institutions that are accredited by one of the regional accrediting associations. Credit from sources other than regionally accredited associations must be approved by the appropriate department chair and/or dean. Proficiency examinations may be required to determine the transferability of academic credits from non-accredited sources. Only those credits that are applicable to the student's curriculum at Black Hawk College will be accepted from non-accredited sources. All transfer credit will be equated to the credit hour system. All transcripts become the official property of Black Hawk College and will not be returned or issued to another institution.

An evaluation of transfer credit will be conducted only upon written request of the student and upon enrollment at the College. The written request for evaluation of transfer credit may be submitted by either of the following methods:

1. Complete a "Request for Transcript Evaluation" form in the Enrollment Services Office at the Quad-Cities Campus or the Admissions Office at East Campus.

2. Forward a letter to the Enrollment Services Office at the Quad-Cities Campus or the Admissions Office at East Campus requesting credit evaluation. This letter must indicate the student's degree or certificate program interest and the name of the college and or university from which the transcripts are being sent.

College Transcripts

An official transcript must be sent directly from all colleges to Black Hawk College if the student wants to use previous college course work for course placement, financial aid, or credit transfer.

High School Transcripts

Transfer students who enroll at Black Hawk College within one year after graduation from high school must submit their high school transcripts.

BHC/NIU Dual Admission

A dual admission agreement has been developed to provide a seamless transition in the transfer process from Black Hawk College (BHC) to Northern Illinois University (NIU). Students who are admissible to NIU and BHC are eligible to benefit from the dual admission agreement. Students indicate an intention to participate in this agreement by signing a statement of intent that includes their primary area of academic interest at the time of their admissions to NIU and BHC. All students taking part in the dual admission agreement are subject to the same admissions, matriculations, and degree requirements governing all other NIU and participating community college students. Students who participate in the dual admissions agreement and earn an AA or AS degree will be entitled to the same academic benefits as undergraduates new to NIU regardless of previous enrollment at NIU.

BHC/WIU Dual Admission

The dual admission agreement between Black Hawk College (BHC) and Western Illinois University (WIU) enables a student to gain admission to both colleges at the same time. Students with the dual admission program will have transcripts automatically sent by BHC to WIU each semester. WIU will provide a report each semester to the dual-admitted student indicating how each class taken at BHC has transferred to WIU. The student will always know where he/she stands in the transitional process to WIU. At BHC, contact the Enrollment Services Office. AT WIU, contact the Regional Center Admissions Office or the Admissions Office on the Macomb Campus.

Admission of International Students and Non-Native Speakers of English

General admission procedure: International students who wish to enter Black Hawk College must be at least 18 years old and have a high school diploma or the equivalent.

For admission to Black Hawk College, an international student must submit the following:

1. A completed and signed Application for Admission.
2. School transcripts.

To be issued the Form I-20 or IAP-66, an international student must submit the following:

1. An Application for Form I-20 or IAP-66.
2. Financial support documents showing the availability of sufficient funds.
International students should contact the International Student and Scholar Program Coordinator for a complete application packet for international students or visit our homepage at [http://www.bhc.edu/International/intl/index.html](http://www.bhc.edu/International/intl/index.html), and print the required forms. Please note: Transcripts and financial support documents must be submitted in the original and accompanied by certified English translations. The International Student and Scholar Program Coordinator phone number is (309) 796-5186.

International students and non-native speakers of English must prove English language proficiency before enrolling in an academic program. These students must take the English as a Second Language placement tests before registering for any courses at Black Hawk College. These placement tests include the following:

1. Michigan Test of English Language Proficiency
2. Michigan Test of Aural Comprehension
3. Writing Sample
4. Oral Interview

The TOEFL test is not required for admission to Black Hawk College. However, if the student has taken this test, he/she should send the score to the ESL Coordinator. This score as well as other background information about the student's English language training will be helpful to the ESL Coordinator in determining placement. Students who have achieved at least a 117 on the TOEFL have the best chance of succeeding in the ESL program.

The ESL Coordinator will review the student's placement test scores, high school background and former English language study to determine placement. The following are guidelines for placement:

<table>
<thead>
<tr>
<th>Score (MTELP)</th>
<th>Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below 60</td>
<td>Beginning Level ESL only</td>
</tr>
<tr>
<td>Beginner - writing sample</td>
<td></td>
</tr>
<tr>
<td>(Courses offered at Outreach Center)</td>
<td></td>
</tr>
<tr>
<td>61-80</td>
<td>Intermediate/Advanced ESL Courses only</td>
</tr>
<tr>
<td>(Courses offered at Quad-Cities Campus)</td>
<td></td>
</tr>
<tr>
<td>81 and above</td>
<td>Advanced ESL/Pre-Academic</td>
</tr>
<tr>
<td>Advanced writing sample</td>
<td></td>
</tr>
<tr>
<td>Academic Courses and oral</td>
<td></td>
</tr>
<tr>
<td>interview</td>
<td></td>
</tr>
<tr>
<td>(Courses offered at Quad-Cities Campus)</td>
<td></td>
</tr>
</tbody>
</table>

If placement test scores determine that students need further preparation in English before enrolling in academic courses, students will be placed in the following programs:

ESL-Levels 1-4: These ESL classes prepare international students and non-native speakers of English in basic speaking, listening, reading, and writing skills in preparation for employment or enrollment in levels 5, 6, and 7.

ESL-Levels 5-7: These ESL courses prepare international students and non-native speakers of English to begin academic work. Students will refine their language and study skills and deepen their knowledge of U. S. culture through a series of specially designed courses in sentence structure, reading, writing, speaking, and listening. Support services are offered to the students through the Independent Learning Lab and the Writing Lab.

Students whose placement scores indicate advanced English language proficiency may take some academic classes while continuing to work on English. Students will be allowed to take a full academic load after completion of the required courses with satisfactory evaluations and a recommendation from the ESL Coordinator.

**Admission Denial**

The College may deny admission or re-enrollment to individuals who cannot benefit from the curricula offered or are considered detrimental to the best interest of the college community.
Tuition and Fee Information

Residency

Tuition rates are determined by the LEGAL RESIDENCE of the student. Residence is defined as the place where the student lives and which is the student's true permanent home. A student who temporarily moves into the district for the purpose of attending the College at the lower in-district rate will NOT be considered as having established a bona fide residence within the district.

In-District. In-district tuition rates will be charged for the following:
1. Resident. Any student whose LEGAL RESIDENCE is within the boundaries of Black Hawk College District 503.
2. Emancipated Minor. A student under 18 years of age who is solely responsible for his/her support and whose parents did not claim him/her as a tax exemption for the current year, and who legally resides in the district.

The Black Hawk College District includes the following high school districts:
- Aledo Community Unit High School District 201
- Alwood Community Unit District 225
- Annawan Community Unit School District 226
- Cambridge Community Unit School District 227
- Erie Community School District 1
- Galva Community Unit High School District 224
- Geneseo Community Unit School District 228
- Kewanee Community Unit High School Dist. 229
- Moline School District 40
- Orion Community Unit District 223
- Riverdale Community Unit School District 100
- Rock Island/Milan School District 41
- Rockridge Community Unit School District 300
- Sherrard Community Unit School District 200
- Stark County Community Unit School District 100
- United Township High School District 30
- Westmer Community Unit School District 203
- Wethersfield Unit School District 230

Any individual who shows proof of full-time employment by a company located within the Black Hawk College District will pay the in-district tuition rate.

Out-of-District. Out-of-district tuition rates will be charged students whose LEGAL RESIDENCE is outside the boundaries of Black Hawk College District 503, but in the State of Illinois.

Out-of-district residents who wish to attend Black Hawk College must file a "Notification of Intent to Attend a Recognized Illinois Public Community College" application with their local community college or high school. These forms can be obtained from the student’s local high school district or community college district and should be filed 30 days prior to the term that the out-of-district student wishes to begin attending Black Hawk College.

Books and Supplies

Financial Arrears

Deferred

Out-of-State. Out-of-state tuition rates will be charged students who have not established LEGAL RESIDENCE within the State of Illinois.

Verification of Residency. Proof of residency is verified by any of the following:
1. An Illinois driver's license and/or vehicle registration
2. Voter registration card
3. Payment of property taxes in Black Hawk College District 503
4. Full-time employment in Black Hawk College District 503
5. Other documents that are not self-serving

Tuition and Fees

Tuition and fees are subject to change.

Payment of Tuition and Fees. All tuition and fees are due and payable at the time of billing. Students desiring financial assistance should contact the Director of Financial Aid. See Financial Aid for a description of available assistance.

Tuition Rate. Charges for all courses that do not have a special rate shown in the semester schedule of classes are determined on a credit hour basis according to the following schedule:

<table>
<thead>
<tr>
<th>Residence</th>
<th>Rate Per Cr. Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Hawk College District</td>
<td>$ 54.00</td>
</tr>
<tr>
<td>Illinois outside the College District</td>
<td>$140.00</td>
</tr>
<tr>
<td>Iowa residents of Clinton, Louisa, Muscatine or Scott Counties</td>
<td>$100.00</td>
</tr>
<tr>
<td>All other out-of-state residents</td>
<td>$259.00</td>
</tr>
<tr>
<td>Tuition for Online Courses</td>
<td>$ 61.00</td>
</tr>
</tbody>
</table>
Students have until five business days before the first day of class to change residency. The residency will not be changed during the term. If a residency change is needed, it will be effective for the next term at the time of registration.

If Illinois students outside the Black Hawk College District notify their local community college of their intent to attend Black Hawk College, a specific out-of-district charge per credit hour may be paid by their home district if the curriculum is not offered at their local community college.

When other areas are annexed to the College district and when that annexation becomes effective in accordance with the Illinois Public Community College Act, students from such areas will also be classified as resident students.

** Auxiliary Fees.** The student auxiliary fee is $2.00 per credit hour. All students, full and part-time, are required to pay the auxiliary fee.

Among the many things this fee covers are the following:

1. Use of Student Center facilities
2. Subscription to College newspaper
3. Admission to home athletic games
4. Admission to social activities and special programs
5. Funding for student clubs, organizations and activities

**Late Graduation Fees.** Students who apply for graduation late (after April 1) will be charged a $5.00 late fee.

**Laboratory Fees.** Laboratory fees are charged for courses which include laboratory sessions and courses for which materials are supplied by the College. The fees for these courses are shown in the semester schedule of classes.

**Instructional Material Fees.** There is a $2.00 per credit hour fee for materials.

**Music Fees.** In addition to the regular tuition, music lesson students will be assessed private lesson fees as published in the current schedule of classes.

**Technology Fee.** There is a $3.00 per credit hour fee for technology. All students, full and part-time, are required to pay the technology fee.

All fees are subject to change.

**Black Hawk District Students Attending another Illinois Community College.** Students whose legal residence is within the Black Hawk College District who wish to attend another Illinois public community college pursuing a curriculum not offered at either campus of Black Hawk College may request a chargeback authorization from Black Hawk College. This authorization will allow the student to attend another community college at the in-district rate and the difference will be paid by Black Hawk College. Requests for such chargeback must be submitted to the Director of Enrollment Services at the Quad-Cities Campus at least thirty (30) days prior to the start of the term.

**Cooperative Educational Agreements**

Black Hawk College offers a number of curricula in cooperation with other community colleges. When a cooperative agreement is in effect, if the curriculum is not offered through Black Hawk College, students may enroll in the program and pay the in-district tuition rate of the college offering the program. In some cases, programs are considered to be limited enrollment curricula; the number of residents accepted into these curricula will vary. Students may obtain information on a particular curriculum directly from the community college offering that curriculum. Some of the courses required for these curricula may be taken at Black Hawk if this meets with the approval of the school granting the degree/certificate.

All students planning on attending Black Hawk College under the cooperative agreement must obtain a letter of authorization from the community college in the district in which they reside. This letter must be turned into the Bursar's Office before registration in order to obtain the in-district tuition rate.

**Programs offered at Black Hawk College available to residents of other community college districts.**

- Ag Mechanics Certificate and AAS
- Ag Transfer AS
- Agribusiness Management AAS
- Animal Science Certificate
- Auto Repair Technology Certificate and AAS
- Banking and Finance Certificate
- Beef Production Certificate
- Broadcasting AAS
- Business Information Technology AAS
- CAD Certificate
- CAD: 3D Modeling Certificate
- Child Development AAS
- Civil Technology AAS
- Commercial Art AAS
- Emergency Medical Services Certificate
- Engineering (pre) AS
- Equestrian Science AAS
- Financial Services Management AAS
- Fire Science Officer AAS
- Horse Science AAS
- International Trade Certificate
- Law Enforcement Certificate and AAS
- Licensed Practical Nurse Certificate
- Machine Tool Operator Certificate
- Machine Tool Production Certificate
- Physical Therapy Assistant AAS
- Swine Production Certificate
- Technical Communication Certificate and AAS
- Truck Driving Certificate
Programs offered by other community colleges available under cooperative agreements to residents of the Black Hawk College District (if program is not offered at Black Hawk College). Please note that this list of programs can change annually.

**Carl Sandburg College**
- Automotive Body Repair Certificate and AAS
- Automotive Technology Certificate and AAS
- Child Development AAS
- Construction Engineering Technology AAS
- Cosmetology Certificate
- Cosmetology Teacher Certificate
- Desktop Publishing Certificate and AAS
- Drafting and Design Tech. Certificate and AAS
- Engine Performance Certificate
- Human Services Assistant Certificate
- Industrial Electricity AAS
- Machine Tool Certificate
- Manufacturing Processes AAS
- Mortuary Science AAS
- Nail Technology Certificate
- Numerical Control Certificate
- Welding Certificate

**Heartland Community College**
- Computer Aided Design Certificate and AAS
- Computer maintenance Technology Certificate
- Criminal Justice Certificate and AAS
- Early Childhood Care & Education AAS
- Electrical Maintenance Certificate
- Electronics Technology AAS
- Engineering Science AES
- Insurance Certificate and AAS
- Machine Tool Technology Certificate
- Maintenance Technology Certificate & AAS
- Manufacturing Technology AAS
- Microcomputer Applications Certificate and AAS
- Nursing Assistant Certificate
- Office Technology Certificate
- Quality Technology Certificate
- Small Business Management Certificate
- Web Developer Certificate

**Illinois Central College**
- Accounting Clerk/Bookkeeper Certificate
- Agriculture Business Management AAS
- Agriculture Mechanics Certificate
- Agriculture Transfer AS
- Architecture Construction Technology AAS
- Automotive Technology AAS
- Caterpillar Dealer Service Technology AAS
- Child Development Certificate
- COBOL Programming Certificate
- Computer-Aided Manufacturing Certificate
- Computer-Aided Mechanical Drafting Certificate
- Computer Programming AAS
- Data Base Administration AAS and Certificate
- Dental Hygiene AAS
- Diesel Powered Equipment Tech. AAS
- Dietetic Assistant Certificate
- Drug and Alcohol Counseling Training Certificate and AAS
- Fire Science Technology AAS
- GM-ASEP AAS
- Graphic Arts AAS
- Graphic Design AAS
- Horticulture AAS
- Industrial and Business Security Certificate and AAS
- Industrial Electrical Technology AAS
- Interpreter Preparation Certificate and AAS
- Landscaping Certificate
- Library Technical Assistant AAS
- Maintenance Mechanic Technology AAS
- Management/Materials & Logistics Option of Management AAS
- Management/Supervision Option of Management AAS
- Mechanical Design Technology AAS
- Mechanical/Electrical Maintenance Certificate
- Medical Coder Certificate
- Medical Laboratory Technology AAS
- Medical Office Assistant Certificate
- Medical Transcription Certificate
- Microcomputer Network Specialist AAS
- Microcomputer Networking Certificate
- Microcomputer Programming Certificate
- Microcomputer Repair Certificate
- Microcomputer Software Support Specialist AAS
- Occupational/Therapy Assistant AAS
- Paralegal Certificate and AAS
- Phlebotomy Certificate
- Physical Therapist Assistant AAS
- Radiography AAS
- Real Estate Certificate and AAS
- Refrigeration and Air Conditioning Certificate and AAS
- Respiratory Therapist AAS
- Surgical Technologist Certificate
- Transportation Traffic Management Certificate
- Travel and Tourism Certificate
- UNIX System Specialist AAS
- Wastewater Treatment Certificate
- Web Administrator Certificate
- Web Designer Certificate
- Web Developer Certificate
- Web Technology AAS
- Welding Technology Certificate and AAS

**Illinois Valley Community College**
- Automotive Technologies Certificate and AAS
- Computer Information Systems AAS
- Computer Networking Certificate and AAS
- Dental Assisting Certificate
- Electronics Technology AAS
- Engineering AS
- Graphic Design Technology Certificate and AAS
- Horticulture Certificate and AAS
- Manufacturing Technology AAS
- Metal Fabrication Certificate
- Process Operator Technology Certificate
- Psychiatric Rehabilitation Certificate
Therapeutic Massage Certificate
Truck Driver Training Certificate

**Spook River College**
- Administrative Office Technology AAS
- ADN AAS
- Commercial Driver Training Certificate
- Computer Information Systems AAS
- Computer Assisted Design Certificate (AutoCAD)
- Desktop Publishing Certificate
- Diesel Tractor Technology Certificate and AAS
- Electronics Technology AAS
- Graphic Design Certificate
- Microcomputer Certificate
- Network Technology Certificate
- Nursing Assistant Certificate
- Office Assistant Certificate
- Service Technology Certificate
- Web Design Certificate
- Web Development Certificate

**John Wood Community College**
- Accounting Certificate and AAS
- Administrative Assistant Option AAS
- Agriculture Business Management AAS
- Agriculture Production Management Certificate
- Agriculture Supply and Service Certificate
- AS-400 AAS and Certificate
- Beef Management Certificate
- Business Management Certificate
- Compressor Technology* Certificate and AAS
- Computer Aided Design AAS
- Computer Information Systems Option AAS
- Culinary Arts Certificate
- Early Childhood Education AAS
- Electrical Technology Certificate and AAS
- Fire Science Option AAS
- Horticulture Certificate and AAS
- Industrial Electrical Maintenance Certificate
- Information Management Option Certificate and AAS
- Law Enforcement Option AAS
- Legal Option AAS
- Management Option AAS
- Marketing Option AAS
- Medical Option AAS
- Office Technology Certificate and AAS
- Paramedic AAS
- Restaurant Management AAS
- Sales Certificate
- Surgical Technology Certificate
- Swine Management Certificate and AAS
- Truck Driving Training Certificate

*Contact Dean of Career Technical Education for information.

**Refund Policy**

1. If a student has completed registration and withdraws from class(es), the withdrawal must be received by the Enrollment Services Office according to the refund schedule in order for the student to receive a refund of tuition, laboratory, instructional materials, and auxiliary fees.

<table>
<thead>
<tr>
<th>Number of Weeks Class Meets</th>
<th>Days to receive 100% refund</th>
<th>Days to receive 80% refund</th>
<th>No Refund After</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-16</td>
<td>thru 7th calendar day of term</td>
<td>8-14th calendar day of term</td>
<td>14th calendar day of term</td>
</tr>
<tr>
<td>3-6</td>
<td>thru 3rd calendar day of the week in which class begins</td>
<td>4-6th calendar day of the week in which class begins</td>
<td>6th calendar day of the week in which class begins</td>
</tr>
<tr>
<td>1-2</td>
<td>1 day prior to the start of class</td>
<td>Not available</td>
<td>1 day prior to the start of class</td>
</tr>
</tbody>
</table>

2. In the event a class is cancelled by the College, 100% of all monies paid for the course will be refunded.

3. 100% of TUITION will be refunded if a licensed physician submits a statement recommending that the student withdraws from all his/her classes for medical reasons. (Physician Statement forms are available in the Enrollment Services Office, Quad-Cities Campus, or Admissions Office, East Campus.)

**WITHDRAWAL** must be complete - not a reduced load. The Physician Statement, along with a signed ADD/DROP form, must be submitted in a timely fashion no later than the beginning of final examinations for the term enrolled.

After the 100% refund period of the course, any drop from a course becomes part of the student's permanent academic record and is recorded as a "W" (withdrawal). A student may withdraw from a course through the 15th week of the semester (for 16 week classes). Any withdrawal after this date must be approved by the instructor. If the class meets less than 16 weeks, consult Enrollment Services regarding withdrawal and needed instructor permission. If the student stops attending a course without officially withdrawing, the student is likely to receive an "F" grade or a faculty initiated withdrawal. If the student never attends or ceases to attend any course in which he/she has enrolled, the student may be administratively withdrawn upon recommendation of the instructor.

The responsibility for dropping a course rests with the student. Withdrawal or non-attendance may result in loss of financial aid. A student is financially responsible for tuition and fees for all classes not officially dropped in the appropriate refund date.
If a withdrawal request is sent by mail, it must be addressed to the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus). Withdrawal requests may be faxed to Enrollment Services at (309) 796-5209. The date the withdrawal is received by the College will determine the percentage of the refund. No refunds are granted if a student is dismissed for disciplinary reasons.

Every attempt will be made to issue authorized refund checks by the end of the fifth week of classes. Questions concerning refund eligibility and exceptions to this policy are referred to the Enrollment Services Office, and questions concerning amounts refunded are referred to the Bursar’s Office.

Refunds are processed in the Bursar's Office and will be made payable to and mailed to the student. If payment is by credit card, the refund will be credited to that card. When a student owes the College money, it is College policy to deduct that amount from the tuition refund. These charges include past due tuition and fees, returned checks, fines, or other obligations.

**Return of Federal Financial Aid Policy**

If a student completely withdraws during the semester after federal financial aid payment has been received, the student may be required to return a portion of the federal financial aid awarded. The federal formula requires a return of funds if the student received assistance from the Pell Grant, Supplemental Grant, or Stafford Loan and withdrew on or before completing 60% of the semester. The calculation is based on the percentage of the semester completed. The portion of federal aid to be returned is equal to the number of days remaining in the semester divided by the number of calendar days in the semester. Sample calculations and a complete explanation of this policy is available at the Financial Aid Office.

**Senior Citizens Tuition Waiver**

Illinois Senate Bill 972 grants a waiver of tuition to any person 65 years or older whose annual household income is less than the threshold amount provided in Section 4 of the "Senior Citizens and Disabled Persons Property Tax Relief Act" approved July 17, 1972, as amended. Forms to request waiver are available in the Bursar’s Office.

**Books and Supplies**

Textbooks and other supplies are available through the College bookstores located on both campuses. Textbooks may be ordered online at the College Web site (http://www.bhc.edu/).

**Financial Arrears**

If, according to the records of the Bursar's Office, any student or former student is in financial arrears to the College for any services, the College will not permit the student to re-register or to obtain an official transcript until the matter is settled to the College's satisfaction.

**Deferred Payment Program**

This program is offered for those students who need extra time to pay for tuition and fees for the current semester (books not included).

1. The student pays one-third of the total charges, PLUS the non-refundable deferred payment fee on or before the payment due date.
2. Student must sign a promissory note for the outstanding balance at the Admissions Office on the Kewanee Campus or the Enrollment Processing Center on the Quad-Cities Campus.
3. The remaining two-thirds of the charges will be divided into two payments.
4. Students must be in good standing with the Bursar's Office and have no outstanding administrative holds on their accounts before deferred payments can be executed.
5. Deferred payments which remain outstanding may be turned over to a collection agency, and the collection costs will be paid by the student.
6. The promissory note must be paid in full even if a student withdraws from or stops attending classes after the refund period.
7. Deferred payments are available for spring and fall semesters only.
8. Questions about the program should be directed to the Bursar’s Office at (309) 796-5200
Financial Aid

Application Procedures

Federal Funded Financial Aid
Veterans’ Benefit
Endowed Scholarships

Academic Progress

Black Hawk College Scholarships and Achievement Awards
State Funded Financial Aid

Application Procedures

Students must complete the Free Application for Federal Student Aid (FAFSA) which may be obtained from the high school guidance office or from the College's Financial Aid Office. Students may also apply online at http://www.fafsa.ed.gov/. The FAFSA is used to apply for the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Stafford Loans (subsidized and unsubsidized), Federal Work Study, and the Illinois Student Assistance Commission Monetary Award and Incentive for Access Grant.

To be eligible for financial aid, students must be high school graduates or GED recipients, or show the "ability to benefit" by achieving satisfactory scores on the ASSET or COMPASS test. Financial aid awarding preference will be given to students with completed information in the Financial Aid Office by May 15. Applications for financial assistance will be accepted any time during the school year. All program eligibility requirements are subject to change. All awards are subject to receipt of Federal and State funds.

Academic Progress

Students receiving financial aid must maintain acceptable academic progress. Students must successfully complete 67% of the hours attempted each semester.

Students must also meet the cumulative grade point average (GPA) requirements:

<table>
<thead>
<tr>
<th>Attempted Hours</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-12</td>
<td>1.5</td>
</tr>
<tr>
<td>13-24</td>
<td>1.8</td>
</tr>
<tr>
<td>25 or more</td>
<td>2.0</td>
</tr>
</tbody>
</table>

If the required credit hours are not completed or the cumulative grade point average is not met, students will be placed on financial aid probation for one semester. Financial aid can be received while on probation. Students who do not meet the academic progress requirements during their probation semester will be placed on financial aid dismissal and will not be eligible for financial aid. Students who fail to complete any credit hours will automatically be placed on dismissal without first being placed on probation status.

Students have a maximum 96 attempted hours to earn an Associate’s degree or 48 attempted hours for a certificate program.

Black Hawk College Scholarships and Achievement Awards

Students should complete a Black Hawk College Scholarship Application by May 15 to receive consideration for scholarships sponsored by individuals and organizations. BHC offers achievement awards that pay a portion or all of a student’s tuition charges. BHC achievement awards are available in these areas: academic, athletic, art, intercultural, journalism, student government, drama, broadcasting, music, and crop/horse/livestock judging.

State Funded Financial Aid

Illinois Student Assistance Commission Monetary Award.
The State of Illinois provides an opportunity for Illinois residents to receive an award not to exceed tuition and approved fees. The amount of the award is based upon financial need as computed by the Illinois Student Assistance Commission and available funds. The monetary award is not based upon academic achievement, test scores, or high school rank. No repayment is required. Early application for the Illinois Student Assistance Commission Monetary Award is encouraged. Apply using the Free Application for Federal Student Aid.

Silas Purnell Illinois Incentive for Access Grant. This grant is a one-time award for freshman students who, based on the Federal formula, are determined to have little or no family resources for college costs.

Illinois Veterans Grant. Illinois veterans who served one year of active duty, received an honorable discharge, were residents of Illinois six months before entering and returned to Illinois within six months of discharge, and are currently residents of Illinois may have their tuition and approved fees paid for by the State. You must present a certified copy of your DD214.
Illinois National Guard/Naval Militia Grant. Must be on active duty and must have served for at least one year in the Illinois National Guard or Naval Militia. Any recipient under this program is entitled to payment of tuition and approved fees while attending full or half-time. Iowa residents who are active members of the Illinois National Guard are eligible to receive the grant. Students must apply annually for the grant.

Department of Rehabilitation Services (DORS). Students with physical or mental disabilities which constitute a substantial vocational handicap are eligible for grants covering tuition and fees. Other aid may also be provided when financial need is shown.

Merit Recognition Scholarship. Students who rank in the top five percent of their high school class at the end of their third semester before graduation or score among the top five percent on the ACT, SAT1, or Prairie State Achievement Exam, may be eligible to receive a $1,000 scholarship. If there are more applicants than funds available, awards may be limited.

Other Scholarships/Grant Offered by the State
• Minority Teachers of Illinois Scholarship
• Robert C. Byrd Honors Scholarship
• MIA/POW Scholarship
• Grant for Dependents of Police or Fire Officers
• Grant for Dependents of Correction Officers

Additional information on these programs is available at the Financial Aid Office.

Federal Funded Financial Aid

Federal Pell Grants. The Federal Pell Grant is awarded to undergraduate students who have financial need as determined by a Federal formula which evaluates the information a student reports on the FAFSA. For many students, Pell Grants provide a foundation of financial aid to which other aid may be added. The amount a student receives will depend not only on their financial need, but also on the costs to attend school, full or part-time enrollment status, and if a student attends school for a full academic year or less. Contact the Financial Aid Office or your high school Guidance Office for further information on how to apply.

Federal Supplemental Educational Opportunity Grants. Students with demonstrated need and enrolled at least half-time in an eligible program may apply. Award preference is given when all application information is completed in the Financial Aid Office by May 15.

Federal Work-Study Program. The Federal government and the College provide funds for part-time employment opportunities for students who are determined to have financial need and are enrolled at least half-time. Students work a maximum of 15 hours per week in a job on-campus or off-campus in a community service position.

Federal Stafford Loan Program. Stafford loans applications are available at the Financial Aid Office for subsidized loans (based on financial need) and unsubsidized loans (not based on need). Loans must be repaid.

Parent Loans for Undergraduate Students (PLUS). Parents may borrow for their dependent undergraduate student. The loan is not based on financial need. PLUS loan applications are available at the Financial Aid Office.

Veterans' Benefits

Black Hawk College processes benefits for veterans qualifying under the Montgomery GI Bill - Active Duty, the Veteran's Educational Assistance Program (VEAP), and the Montgomery GI Bill - Selected Reserves. Students may also qualify for Dependent's Educational Assistance or Vocational Rehabilitation benefits. See the Financial Aid Office for information.

Endowed Scholarships Quad-Cities Campus

An endowed scholarship is established by a gift to the College with the investment income from the gift to be used for scholarships. Gifts may be made through direct contribution, bequest by will, or life income agreements.

The following are endowed scholarships of the Black Hawk College Foundation:

Lisa Bahnks Memorial Scholarship. Established by Mr. and Mrs. William Bahnks in memory of their daughter, Lisa, who was a 1977 graduate of Black Hawk College. Scholarship is awarded to an outstanding graduating student in a health related field and enrolled in a four-year college or university for the purpose of obtaining a degree.

Thomas Batell English/Philosophy Scholarship. Established by the English/Philosophy/Foreign Language Department. Awarded to a full-time Black Hawk freshman enrolled in the transfer program. Preference is given to students in English, Philosophy and Foreign Languages. Scholarship recipient is selected by department.

Earl H. Beling Memorial Scholarship. Established by Mrs. Earl H. Beling in memory of her husband. Mr. Beling is recognized as one of the founders of the community college which is now Black Hawk College. Awarded annually with preference to students taking foreign language courses. Academic performance and financial need are considerations.

Black Hawk College Endowment. Established by the Black Hawk College Foundation. Awarded annually to students demonstrating financial need and good academic standing.

Black Hawk College Quad-Cities Campus Alumni Association Scholarship. Full or part-time students must have completed nine semester hours at Black Hawk College; have a GPA of 2.5 or higher; and show financial need.
Lucy Brandicon/Leon Dombrock/Donna Figle O’Meara Memorial Scholarship. Established by friends and relatives of these three individuals. Miss Brandicon taught piano at Black Hawk College; Mr. Dombrock was the manager of the Black Hawk College Bookstore; and Ms. O’Meara was an instructor in the music department. The recipients of the combined scholarship are selected by the Music Department.

Doris E. Brer Memorial Scholarship. Established by the Brer family in honor of their mother, Doris, who worked in the College Bookstore for eleven years. Applicants should be widowed or divorced homemakers who demonstrate financial need.

John R. Cioe Memorial Scholarship. John R. Cioe was a Chicago police officer and training instructor, a lover of books, and an advocate of life-long learning. It is the intention of his family that the award established in his memory will benefit adult learners in a wide variety of academic disciplines.

Arthur B. Conelly Memorial Scholarship. Established by Tri-County Home Builders Association, Inc. Preference given to students majoring in Pre-Engineering, Technical Engineering, Real Estate or Building Trades.

Paula Cravero Memorial Scholarship. Established by family, faculty, and friends in memory of Paula Cravero, Professor of Accounting in the Business Department. Awarded annually to career or transfer students who are majoring in accounting.

Cummings Family Memorial Scholarship. Established by Marilyn and the late Wayne Cummings. Scholarship is awarded to a high school or GED graduate who is majoring in a career program curriculum; has financial need and maintains a 2.0 grade point average.

Patty Decker Memorial Scholarship. Established by Mr. and Mrs. Wendell C. Cree in memory of their daughter, a graduate of the Black Hawk College nursing program. Preference given to students enrolled in the nursing program.

Barbara E. Garst Memorial Scholarship. Established by Dr. Josephine Garst and friends. Miss Garst was a Professor of English at Black Hawk College. Awarded annually to students graduating from Moline High School.

John R. Grotzinger Memorial Scholarship. Established in memory of John Grotzinger, a Professor in the Psychology/Sociology Department. Awarded to a graduating member of Psi Beta, a national honor society for community college students interested in psychology. Based on academic achievement, leadership, and community service.

Martha Ann Grotzinger Memorial Scholarship. Established by family, faculty and friends. Martha Grotzinger was a professor in the Biology Department at Black Hawk College, who had a deep concern and interest in the students. This award goes to a female student enrolled in biological science or nursing; special preference to widows with children.

Martin E. Hayes Physics/Engineering Scholarship. Established in memory of Martin E. Hayes, Professor of Physics and Engineering at Black Hawk College. Awarded to students who have completed one year at Black Hawk College and are majoring in physics or engineering.

Erwin Johnson Memorial Scholarship. Awarded to students majoring in Industrial Related Technologies who have completed at least 30 credit hours with a GPA of 3.0.

Todd C. Harold Johnson Memorial Scholarship. Two awards: one annually to a law enforcement major and the other awarded alternately each year to either a major in fire science or paramedic programs. Attended high school and resident of BHC District.

E. S. (Bert) Metcalf Memorial Scholarship. Established by relatives and friends for the former Rock Island County Superintendent of Schools and a supporter of Black Hawk College. Preference given to sophomore or older part-time students. The award is available for books.

Milan Area Rotary Scholarship. Established by the Milan Rotary Club. Students may be enrolled in either a transfer or career program. Students must be residents of one of the following: Blackhawk, Andalusia, Bowling, Edgington, Buffalo Prairie, or Drury Townships, or that portion of Rural Township and Mercer County within the Sherrard School District. Scholarship is need based.

Douglas L. Mitton Memorial Scholarship. Established by Mr. and Mrs. Floyd C. Mitton in memory of their son. Preference given to a law enforcement student.

Jules Mueller Westmer Scholarship. Must be a graduate from Mercer County in top half of graduating class. Preference given to a graduate from Westmer High School. Must demonstrate financial need and be full-time at Black Hawk College.

Robert E. Nuquist History Scholarship. Given by Robert E. Nuquist, a Professor of History and Department Chair for a total of 28 years. This scholarship is to benefit history majors of high academic standing, demonstrating need.

Roger A. Perley Memorial Scholarship. Established in memory of Roger A. Perley, Professor of Music at Black Hawk College. Awarded to students who have completed 15 semester hours at Black Hawk College and are majoring in music in a transfer program with a GPA of 2.5 or higher.

Perlmuter Scholarship. Established by Dr. Harold and Evelyn Perlmuter. Awarded to science majors who demonstrate financial need.

Phi Theta Kappa. A national honorary scholastic fraternity for community and junior colleges. Students in a transfer
program are awarded on academic achievement as well as leadership achievement. Recipients selected by Phi Theta Kappa.

**Quad City Retirees Scholarship.** Students must demonstrate academic success and show financial need.

**Quad City Vintage Rods Scholarship.** Students must demonstrate academic success.

**Elaine K. Saffield Memorial Scholarship.** Established in memory of Elaine K. Saffield. Awarded annually to students demonstrating academic progress and financial need.

**The Sedona Group Scholarship.** Awarded to students in transfer/career programs with preference to computer science majors. Preference is also given to employees or dependents of employees at The Sedona Group.

**Marian Walters Health Occupations Scholarship.** Available only to students who enroll in health related programs, have attended high school and are current residents of BHC District. Preference given to those planning to work in health related occupations in Rock Island County. The following endowed scholarships have no specific restrictions for application:

- **Norbert C. Barwasser Memorial Scholarship**
- **Richard J. Puffer (former BHC Chancellor) Scholarship**
- **Alban E. Reid (former BHC President) Scholarship**
- **Gertrude M. West (former BHC Professor of Speech) Memorial Scholarship**

**Endowed Scholarships East Campus**

**Agricultural Fund Scholarship.** Awarded to a full-time student majoring in an agriculture program. Student must show financial need and a GPA of C or better.

**Dean L. Bates Scholarship.** Award preference given to direct descendants of Fremont and Clara Bates. Preference is also given to students majoring in agronomy, horticulture, or botany. Pays towards tuition, books and fees; available to students receiving no other scholarships.

**Jim Beam Scholarship.** Established by the James B. Beam Distributing Company. Awarded annually to a student of good academic standing and showing financial need.

**Black Hawk East Alumni Club Scholarship.** Awarded to full-time returning student with good academic standing.

**Black Hawk East Foundation Scholarship.** Established by the Black Hawk East Foundation. Awarded annually to a full-time student of good academic standing and showing financial need.

**Elmer Brose Scholarship.** Awarded to a full-time student in good academic standing; preference given to student majoring in auto mechanic program.

**Ron and Theresa Brown Memorial Scholarship.** Established in memory of Ron and Theresa Brown. Given annually to a full-time returning student who has demonstrated academic ability, financial need and involvement in extra-curricular activities.

**David Bradbury Scholarship.** Established by David Bradbury. Awarded to a full-time transfer program student with preference to English, Journalism, or Communication major. Must be a graduate of an area high school with a B or above GPA, and show financial need.

**Demmler Business/Technology Scholarship.** Awarded to students who attended high school in and who are current residents of Henry or Stark Counties. Must be enrolled in automotive technology, office careers technology or computer technology. Pays towards tuition, books, and fees.

**Robert H. Eastman Memorial Scholarship.** Established in memory of Robert Eastman. Given annually to full-time students of excellent academic standing in the transfer program.

**Erickson Family Endowment Scholarship.** Established in honor of Carl O. Erickson. Pays towards tuition, books, and fees. Award given annually to a full-time student with C+ or above GPA. Preference to nursing major.

**Giertz Brothers Scholarship.** Awarded to full-time students who attended high school outside the BHC District and are majoring in the Agriculture Transfer program. Recipients must qualify to participate in a BHC livestock judging team. Pays towards tuition only.

**Nancy and Wayne Heir Scholarship.** Awarded to students majoring in agriculture, who graduated from high school in Henry or Stark Counties. The recipients must also currently reside in either county and pursue farming or Agribusiness.

**Elmer Hoge Memorial Livestock Judging Scholarship.** Established in memory of Elmer Hoge. Given annually to a member of the livestock judging team.

**Debbie Kitterman Memorial Scholarship.** Established in memory of Debbie Kitterman. Given annually to a graduate of Galva High School. Preference to students with financial need not receiving any grants.

**Brick Lundberg Scholarship.** Established in memory of Brick Lundberg. Preference is given to full-time students of good academic standing. Must demonstrate financial need. Renewable by re-application if student maintains full-time status and a 2.0 GPA.

**Harriet McCarthy Scholarship.** Established by the Harriet McCarthy Estate. Based on merit. Given annually to a full-
time student who graduated from an area high school. Student must not be an Academic Achievement Award winner.

**Mehaffey Memorial Scholarship.** Awarded to a full-time student enrolled in a Health related major who demonstrates financial need. Must have a C or above cumulative GPA.

**Jeffrey Wayne Owens Memorial Scholarship.** Established by relatives and friends of Jeff Owens. Given annually to an Black Hawk College East Campus full-time student, who will continue his/her education at a four-year institution. Must have an excellent academic record. Must be Kewanee or Wethersfield High School graduate.

**Peoples National Bank Scholarship.** Established by Peoples National Bank. Awarded annually to a business major with a B or above GPA. Preference to Kewanee or Wethersfield High School graduate with financial need.

**Peterson-Martin Engineering Foundation Scholarship.** Established by the Martin Engineering Company to be awarded annually to students in good academic standing who demonstrate financial need and are residents of the Neponset area.

**Otto Schwefel Scholarship.** Established by Otto Schwefel for deserving students with financial need. Awarded to full-time students who are graduates of Kewanee or Wethersfield High Schools.

**Susan Shipp Scholarship.** Established in memory of Susan Shipp. Given annually to a member of the horse judging team.

**Smith Scholarship.** Awarded to a full-time student who demonstrates financial need. Student must have a cumulative GPA of C or better with preference given to an Arts program major.

**Dean W. Stoner Scholarship.** Established by the Kewanee Boiler Corporation. One award made annually to a son or daughter of an hourly employee and one award to a salaried employee's dependent. This award is based on good academic standing and financial need.

**Dale and Helen Swanson Scholarship.** Established by Dale and Helen Swanson. Pays towards tuition, books and fees. Awarded to full-time student intending to transfer to a four-year college. Must have C+ or above GPA and show financial need. Preference given to Business Administration majors.

**25 for 25 Scholarship.** Lump sum award with priority to students who completed GED through BHC. Enrolled in at least one course in any degree or certificate program. Renewable by reapplication if student maintains 2.0 GPA.

**Theodore and Penny Vlahos Scholarship.** Established by Theodore and Penny Vlahos. Awarded to students who graduated from Kewanee or Wethersfield High Schools and are enrolled in a two-year degree program. Must maintain a C or above GPA and show financial need.

**Amelia Walen Scholarships.** Awarded to Miss Henry County Fair Queen, first and second runner-ups; Miss Henry County World Festival Queen, first and second runner-ups; Miss Stark County Queen, first and second runner-ups.

**Eleanor Washburn Scholarship.** Established in memory of Eleanor Washburn. Awarded annually to students Excelling in the nursing assistant classes.

For further information about these scholarships and other application requirements, contact the Financial Aid Office at Black Hawk College.
Assessment and Orientation

All students enrolling for six or more college credit hours must complete the college's course placement test (generally COMPASS). All students enrolling at the College are encouraged to take the college’s assessment test and attend orientation.

Students take a test measuring academic skills in writing, reading, basic math, and algebra that provides information for advising and placement into courses commensurate with abilities. Test scores place students into either developmental education or 100-level college credit courses. Placements are mandatory for English Composition, Math, and Reading. Therefore, students are encouraged to prepare for the COMPASS test. A test preparation booklet is available at the Advising Centers and on the College’s Web site, http://www.bhc.edu/.

Some courses require a specific test score prior to enrollment and all students must meet the prerequisites for courses either through assessment or previous college coursework. Students who have attended another college or university or who have earned a degree should see an advisor or counselor to discuss their options before taking the placement test.

Students who have taken the ACT test within the past two years and have scores 22-36 may waive parts of the COMPASS test. To use the ACT assessment option, an official copy of the students’ score report must be sent from ACT to the College. Students are encouraged to identify Black Hawk College as a college choice on the ACT registration form.

Students may use any four-function, scientific, or graphical calculator, as long as it doesn’t have a QWERTY keyboard or pen-input device. Pocket organizers, handheld or laptop computers, electronic writing pads or pen-input devices cannot be used. For more information about calculators, visit the BHC Web site at http://www.bhc.edu/.

Students will use a personal computer at Black Hawk College to complete the COMPASS test. The COMPASS is untimed. It is recommended that students plan for up to 3 hours to take the full placement test. A one-hour orientation will precede placement testing. Placement results will be available immediately. Students scoring in the decision zone on the writing skills portion of COMPASS will be required to submit a writing sample. Please be aware that results from Writing Samples may take up to 5 business days to be released.

Students who require special testing accommodations or who are testing at the East Campus should review the testing guidelines outlined by those departments.

Assessment policies/guidelines are subject to change. It is the students’ responsibility to obtain the most accurate and up to date information. Please see the Web page for the most current information at http://www.bhc.edu/.

Assessment Placement Guidelines

Writing Skills
Test scores determine mandatory placement in writing courses.

<table>
<thead>
<tr>
<th>ACT English</th>
<th>ASSET Writing Skills</th>
<th>COMPASS Writing Skills</th>
<th>Course Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>23-30</td>
<td>0-14</td>
<td>ENG 081 Writing Fundamentals I</td>
</tr>
<tr>
<td>--</td>
<td>31-35</td>
<td>15-27</td>
<td>ENG 091 Writing Fundamentals II</td>
</tr>
<tr>
<td>--</td>
<td>36-41</td>
<td>28-61</td>
<td>Writing sample required</td>
</tr>
<tr>
<td>22-36</td>
<td>42-55</td>
<td>62-99</td>
<td>ENG 101 Composition I</td>
</tr>
</tbody>
</table>

Career Programs that require COMM 105 and BE 180 or ENG 132:

<table>
<thead>
<tr>
<th>ACT English</th>
<th>ASSET Writing Skills</th>
<th>COMPASS Writing Skills</th>
<th>Course Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>23-30</td>
<td>0-14</td>
<td>ENG 081 Writing Fundamentals I</td>
</tr>
<tr>
<td>--</td>
<td>31-36</td>
<td>15-31</td>
<td>COMM 105 Essentials of English</td>
</tr>
<tr>
<td>22-36</td>
<td>37-55</td>
<td>32-99</td>
<td>BE 180 Business Communications or BE 180 and COMM 105 concurrently</td>
</tr>
</tbody>
</table>

Reading Skills
Test scores determine placement in reading courses and some college level courses. Students earning Associate in Arts or Associate in Science degrees are subject to mandatory placement in reading courses. Students earning Associate in Applied Science degrees or certificates must meet the program requirements for reading as stated in the program description. Students registering for Study Unlimited must have an ACT reading score of 22-36, an ASSET reading score of 43-53, or a COMPASS reading score of 83-99.
Mathematics
Test scores on the four subsets of the ASSET test or the three subsets of the COMPASS test determine mandatory placement in math courses. Placement into Math 113, 123, and 223 is determined by the score on the technical mathematics placement exam. Students should read the program description to determine which math course meets program requirements.

**ASSET Course Placements:**

NS: Numerical Skills
- 23-40 MATH 080
- 41-43 MATH 080 or EA assessment
- 44-46 MATH 081 or EA assessment
- 47-55 MATH 086 or 081 or EA assessment

EA: Elementary Algebra
- 23-30 Please refer to NS placement
- 31-33 MATH 081
- 34-37 MATH 086 or 081
- 38-40 MATH 090 or 086
- 41-55 MATH 091 or 090 or 085

IA: Intermediate Algebra
- 23-32 Go by EA placement
- 33-35 MATH 090 or 091 or 085
- 36-38 MATH 091 or 085
- 39-41 MATH 091 or CA assessment
- 42-55 MATH 100, 108, 110, 112, 116, or 118

CA: College Algebra
- 23-32 Go by IA placement
- 33-37 MATH 100, 108, 110, 112, 116, or 118
- 38-55 MATH 124, 131, 132, 161, or 228

**COMPASS Course Placements:**

PA: Pre-Algebra
- 0-45 MATH 080
- 46-57 MATH 080 or Algebra assessment
- 58-72 MATH 081 or Algebra assessment
- 73-99 MATH 086 or 081 or algebra assessment

AS: Algebra Skills
- 0-19 Pre-algebra score determines course placement
- 20-24 MATH 081
- 25-31 MATH 081 or 086
- 32-35 MATH 091 or 090 or 085
- 36-39 MATH 091
- 40-49 MATH 091 or use College Algebra for course placement
- 50-99 MATH 100, 108, 110, 112, 116 or 118

CA: College Algebra
- 0-31 Intermediate Algebra score determines placement
- 32-45 MATH 100, 108, 110, 112, 116 or 118
- 46-99 MATH 124, 131, 132, 161 or 228

**Computer-Aided Drafting**

Students enrolled in career programs that require GT 101 Basic Technical Drafting or MT 244 Computer Graphics are required to take the Black Hawk College Computer-aided Drafting placement test.

**Foreign Language**

**Spanish.** Students enrolling in a Spanish course must take the placement test, unless the student has already taken Spanish at BHC or any other regionally accredited college or university and received a grade of "C" or better. The test is available at the Independent Learning Center (ILC). The test is only for course placement to determine the student's language proficiency in Spanish. No credit will be given. BHC does not offer proficiency exams in foreign language and does not award credit for proficiency in a foreign language.

**French, German, Italian, Japanese, Latin.** Students enrolling in French, German, Japanese or Latin courses do not take a placement test, but should consider the following:

<table>
<thead>
<tr>
<th>Complete</th>
<th>Register for</th>
</tr>
</thead>
<tbody>
<tr>
<td>One year in high school</td>
<td>102</td>
</tr>
<tr>
<td>Two years in high school</td>
<td>201</td>
</tr>
<tr>
<td>Three years in high school</td>
<td>202</td>
</tr>
<tr>
<td>Four years in high school</td>
<td>253</td>
</tr>
</tbody>
</table>

The grade received in high school, the number of years since the course was taken, and the level achieved in the written as well as the spoken language should also be taken into consideration.

When any uncertainty exists regarding placement, consult the Chair of the Humanities, Languages, and Journalism Department or the Lead Instructor for foreign languages.

Consult the course schedule for availability of courses each semester.
Registration

Student Responsibilities

Upon enrollment at Black Hawk College, the student enters into a voluntary agreement with the College. Inherent in this agreement is the obligation that the student will abide by the policies, rules and regulations that govern the institution.

Responsibility for proper registration rests with the student. The individual student is responsible for satisfying the College curriculum and graduation requirements. If the student chooses to follow a transfer program, he/she is responsible for coordinating the course of study at the College with that of the institution from which the baccalaureate degree is expected.

Student Handbook

The College publishes a Student Handbook annually that each student should consult and review carefully. The handbook contains further information regarding office hours, resources that address students’ questions, concerns or needs for resolution, student code of conduct, policies and procedures, information about facilities and services for students, student activities and other important information that the student may need while attending Black Hawk College. A copy of the Student Handbook may be obtained during assessment and orientation sessions, from the Advising Center on the Quad-Cities Campus, from the Admissions Office on the East Campus, at various brochure racks throughout each campus, and on the College’s Web site at http://www.bhc.edu/.

Auditing

Some courses at Black Hawk College may be audited. The decision regarding whether a course may be audited or not is made by the faculty member teaching the course. The auditor's level of participation in classroom activities is determined by the faculty member and the auditor by mutual consent. Audited course(s) will be on the transcript with an audit notation. Once enrolled, a student may not change class registration status from audit to credit or from credit to audit.

Registration for audit courses will be accepted only during the first week of the class and only for classes in which space is available. The faculty member's written permission on the Audit Permission and Registration Form is required prior to registration.

The costs for auditing a course are based on the in-district tuition rate plus appropriate fees. Payment must be made at the time of registration. Hours audited are not eligible for financial aid.

For additional information contact the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus).

Maximum Course Load

For the student's own benefit, there is a maximum course load of 18 credit hours during the fall and spring semesters. Seven hours is the maximum summer term load without special permission. Students may exceed this total only with permission of the Director of Enrollment Services or the Director of Advisement Services at the Quad-Cities Campus or the Director of Educational Services at the East Campus.

A student who expects to do satisfactory work should spend approximately two hours outside class in preparation for each class hour. Thus, a 16 to 18 credit hour load becomes a 48 to 54 hour week. Some students will find a 12 to 15 hour load more satisfactory even when they devote full time to study.

Cancellation of Courses

The College reserves the right to cancel any course.
Student Records

Records Policy

The College's policy regarding student records is intended to comply fully with the Family Educational Rights and Privacy Act of 1974. This Act was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for correction of inaccurate or misleading data through formal and informal hearings. Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office, Department of Education, Washington, DC 20202, concerning the alleged failures of Black Hawk College to comply with the Act.

Black Hawk College designates the following categories of student information as public or "directory information": name, address, telephone listing, major field of study, full-time or part-time enrollment status, photograph, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student.

The above information may be disclosed by the institution for any purpose at its discretion. However, currently enrolled students may withhold disclosure of these items by notifying the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus) in writing within the first fourteen days of classes each semester. Request for nondisclosure must be made each semester.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus).

Deficiency Reports

These reports are used to notify students that successful completion of the course is in jeopardy. Deficiency Reports are used at the discretion of the instructor. Students are encouraged to monitor their own class progress.

Transcripts

The College will release transcripts of academic records only upon the written request of the student and providing that all financial obligations due the College are cleared. Written authorization may be provided via fax. Telephone requests will not be honored. Transcripts will be sent within approximately four working days with no fee. Transcripts will be sent within 24 hours (excluding holidays and College vacation days) for a $5 fee.

Change of Address

It is the responsibility of the student to notify the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus) in writing of a change in name, address, telephone number and any other records information.

Denial of Enrollment

Students with past-due accounts with the College may not register for classes or have official transcripts sent.

Transcript Retention

Transcripts submitted by individuals who do not enroll at Black Hawk College will remain on file three years after receipt.
Academic Information and Regulations

Grading System

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade</th>
<th>Grade Pts. per Cr. Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Poor (A student may elect to take an X if a grade of D is earned in a course that is using the X grading system)</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>P</td>
<td>Passing</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Represents no grade judgment. (An X grade will not affect the grade point average.)</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Incomplete. (Work not completed because of reasons considered appropriate by the instructor. The work must be completed within the time limit established by the instructor from one day to one year. If the work is not completed within one year, the Registrar will record an &quot;F&quot; or an &quot;X&quot; based upon the grading system used in that course.)</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td></td>
</tr>
</tbody>
</table>

Course Grading System. The course syllabus provided by the instructor will identify the course grading symbols and procedures to be followed by that course.

Grade Point Average. The student's grade point average is determined by dividing the number of credit hours attempted into the total grade points earned. The "X" or "P" is not used in computing the grade point average.

Grade Reports. When a student completes a course, grades are available on the Touchtone and Online Information systems within 15 days after the instructor has submitted the grade to the Enrollment Services Office. Students are encouraged to select a PIN (Personal Identification Number) on the Touchtone and Online Information systems that is not easily identifiable and/or well-known by family and friends.

Grade Change. Grade change requests must be made within six months of the end of the course. Once final grades have been submitted, assignment of "W" or "X" will not be permitted. In the case of instructor error, it is the instructor's responsibility to change the grade as soon as the error is discovered.

Students challenging a grade must produce all of the relevant examinations, papers, and other such materials that the instructor has evaluated and returned.

Grade changes can be made only by the faculty member who issued the grade, unless the faculty member is no longer available. If the faculty member is no longer available, the determination of the grade change will be made by the current chair of the department offering the course(s) involved and the appropriate instructional dean.

Cheating and Plagiarism Policy

At the beginning of the semester, each instructor should inform students about the College policy on cheating and plagiarism. The student bears the ultimate responsibility for being aware of College policy, regardless of whether or not the faculty member has provided this information. This policy is included in the Student Handbook.

Definition of plagiarism. Plagiarism takes any one of three forms:

- Passing of words and/or images of another as one's own.
- Passing of the ideas of another as one's own.
- Using the original organizational scheme or plot of another as one's own.

Since it is the faculty member's responsibility to assign grades, it is also his/her prerogative to determine what constitutes cheating or plagiarism as defined above in his/her class(es). The consequences for cheating or plagiarism are determined by the faculty member. Unless that judgment can be shown to
be either capricious, arbitrary, or in bad faith, the faculty member's judgment will stand.

**Repeat Policy**

Students may repeat any course offered at Black Hawk College but in so doing, they should be aware of the following:

A student may repeat a course only when one of the following conditions is met:

a. If the student has not completed the course with a grade of "C" or better and the course is necessary to satisfy requirements for a degree or certificate, the course may be repeated once.

b. If the student needs to bring the grade point average up to required level for graduation, a course may be repeated once.

c. If a course has been approved by the Illinois Community College Board to be repeated, the student may repeat the course as often as approved by the Illinois Community College Board.

In a repeated course, only the highest grade will be counted in the grade point average. An "X" will not replace any other grade.

"X" grades are considered final grades, and therefore denote completion of the course with no grade judgment. Students earning an "X" in a course will be eligible to repeat the course only under conditions listed above.

A student who intends to repeat a course should notify the registration office when enrolling in the course that it is going to be a repeat of a course already taken.

The College may claim State apportionment monies for giving instruction to a student only one time per student per individual course except under conditions listed in #1 above. In instances where a course is being repeated in conditions other than those listed above, the College may require additional payment equivalent to the amount received in State reimbursement.

**Class Attendance**

Regular class attendance directly affects academic success, since only with regular attendance are students able to participate fully in discussion and laboratory sessions, and to seek clarification concerning newly presented materials. However, if you have to be absent, you should report the reason for your absence to your classroom instructor at the next class meeting. Absences are not automatically excused, and it is entirely up to your instructor to determine whether or not you can make up the work missed. If you miss four class hours (a total of 200 minutes), either consecutively or cumulatively, your instructor has at least two options:

He/she may assume that, after four absences, you are no longer interested in remaining in the course and as a consequence, he/she may drop you for non-attendance.

Or the instructor may send you a letter urging you to return to class or to withdraw from the course*. After receiving the letter the student may then acknowledge the notice by returning to class or initiating the withdrawal procedures. If the student does not respond within two calendar weeks, the faculty member may drop the student for non-attendance.

It is understood that while no absences are automatically excused, prolonged illness, bereavement, and/or participation in recognized college activities often receive special consideration by an instructor if the student has fulfilled his/her responsibility of notification.

* It is essential that each student keep the College informed of any change in address. This can be done by notifying Enrollment Services on the Quad-Cities Campus or the Admissions Office at East Campus.

**Children in Class**

The faculty has responsibility for control of the classroom and should take steps to ensure an orderly environment in which learning may occur unimpeded. The presence of children in the classroom impedes learning; therefore, children should only rarely be allowed to accompany students to class and then only at the discretion of the faculty member involved.

**Withdrawals**

**Student Withdrawals.** Academic advisement is available when enrolling for a course, and it is beneficial for the student to seek advice from the instructor and/or counselor when considering withdrawing from a course.

A student withdraws from a course by completing a schedule change form at the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus). If circumstances prevent the student from appearing personally, the student may send a letter giving detailed explanation to either of these offices.

It is important to consider the following when withdrawing from a course:

1. The refund policy.
2. Potential loss of both current financial aid and future financial aid eligibility.
3. Impact on grades; if a student does not officially withdraw from a course, the student may receive an "F" or "X" depending on the course.
4. Withdrawal from a course; a student may withdraw from a course through the 15th week of the semester. If the class meets less than 16 weeks, consult Enrollment Services regarding withdrawal dates. Any withdrawal after this date must be approved by the instructor. Students may withdraw officially from courses during the
100% refund period without notation on permanent records.

5. Impact on financial obligations; students withdrawing from all courses are required to remove all financial obligations to the College.

Instructor Withdrawals. An instructor may drop a student from a class because of unexplained absences. If a student has been absent for four class periods (consecutive or cumulative) without explanation, the instructor may withdraw the student from a class.

Administrative Withdrawals. The College reserves the right to withdraw a student from classes at any time during the semester. Generally, these withdrawals are initiated as a result of class non-attendance, disciplinary problems, non-payment of charges, or incomplete admission records in the Enrollment Services Office.

Academic Standards

A 2.00 grade point average is necessary to graduate from Black Hawk College and to transfer to most senior institutions. Anytime the semester grade point average or cumulative grade point average is below 2.00, the student should reassess his/her educational objectives and study habits. The student should seek assistance from instructors, academic advisors and counselors in this reassessment process.

Good Standing. To be in good standing, any student who has attempted 12 credit hours, regardless of where the hours were earned, must maintain a cumulative GPA of 2.00.

Probation. Regardless of where the credit was attempted, any student who has attempted 12 credit hours with a cumulative GPA below 2.00 is placed on probation.

Removal from Probation. When the student's cumulative GPA reaches 2.00, the student will be removed from probation.

Social Probation and Dismissal. Any student whose conduct is deemed undesirable by the administration, faculty or appropriate committee may be placed on social probation or dismissed from the College. See the Black Hawk College Student Handbook for further information.

Baccalaureate/Transfer Course Guarantee

Black Hawk College, as demonstration of its dedication to providing a quality education that fully transfers to a baccalaureate education, guarantees that students can transfer courses taken at Black Hawk College to baccalaureate institutions. The College backs up this transfer course guarantee with a tuition refund if the course does not transfer provided the following conditions have been met:

1. The course was identified as transferable to the specific baccalaureate institution in the Course Equivalency Table in effect at the time the course was taken.
2. The student completed the course with a grade of "C" or better.

While the College will maintain up-to-date transfer information and will provide academic advising and counseling to aid students in course selection, it is the responsibility of the students to avail themselves of these services. Students should be aware that baccalaureate degree completion requirements are not the same for all institutions or majors and that these requirements change over time. It is the responsibility of the student to keep informed of these changes and to adjust their program of courses accordingly. The Course Equivalency Table is available through the Black Hawk College Web site at http://www.bhc.edu/.

To initiate the guarantee process, the student must submit a letter to the Director of Enrollment Services (Quad-Cities Campus) or the Director of Educational Services (East Campus) showing evidence of enrollment in the baccalaureate institution. In addition, the student must also submit a letter from the baccalaureate institution stating why the course did not transfer.

The limit of the College's liability is to compensation stated herein. The College is not liable if the baccalaureate institution changes its equivalencies after a student has completed the transfer course in question.

Occupational Program Guarantee

The Occupational Program Guarantee formally assures career program graduates and their employers that they have obtained the academic and technical skills that the occupational programs are designed to teach. The College backs up this guarantee with up to 9 credit hours of tuition-free instruction provided the following conditions have been met:

1. The career program graduate must be employed in a position related to the program of study.
2. In the case of licensure, the student must attempt to pass the licensure exam at least twice within one year of graduation. If refresher or test preparation courses are available, the student must also pass those courses before initiating the guarantee.

To initiate the guarantee, the student and employer must submit to the Director of Enrollment Services (Quad-Cities Campus) or the Director of Educational Services (East Campus) a joint statement within six months of program completion certifying that the graduate is lacking the entry-level skills identified in the course syllabi at the time the course was taken. In the case of licensure, the student must submit to the Director of Enrollment Services (Quad-Cities Campus) or the Director of Education Services (East Campus) documentation from the licensing entity of the unsuccessful attempts to pass the exam.
The limit of the College's liability is to the compensation stated herein.

**Conferring Degrees and Certificates**

Candidates for Associate's degrees (AA, AS, AAS, ALS) and Certificates of Achievements will be recognized formally at the Commencement Ceremonies held in May at the end of each spring semester. However, students will receive their degrees or certificates following the close of the semester in which they apply for graduation and meet graduation requirements.

**Calendar**

The College operates on a semester calendar. It also offers certain curricula on other schedules.

**Unit of Credit**

The unit of credit is the credit hour; normally, a unit of credit is earned by attending a non-laboratory class for one hour a week for 16 weeks or the equivalent. In laboratory classes, one credit hour is granted for two to three hours in a laboratory per week. The number of credits for each course can be found in the course descriptions.

**Student Classification**

**Freshman.** Students who have completed fewer than 30 credit hours of college work.

**Sophomore.** Students who have completed 30 or more credit hours of college work.

**Full-time Student.** Students registered for 12 or more credit hours are considered full-time students. A normal full-time load consists of 15-17 credit hours.

**Part-time Student.** Students registered for less than 12 credit hours.

**Regular Student.** Students who have high school diplomas or GEDs (as indicated on their Application for Admission) and are enrolled in a course leading to a degree or certificate are classified as Regular Students.

**Special Student.** Students who do not meet the criteria for a regular student will be classified as a special student. Special students are not eligible to receive a degree or certificate and are not eligible for financial assistance.

**Honors Information**

**Phi Theta Kappa.** PTK is the national honor fraternity for community college students. The Eta Kappa Chapter was established at the Quad-Cities Campus in 1950. PTK recognizes students who have completed 12 credit hours of college level coursework with a minimum GPA of 3.5 and who are currently enrolled in at least 6 credit hours actively pursuing a major. In addition, students must be recommended for membership by two Black Hawk College faculty members, complete the proper registration form and pay a fee. Scholarships are awarded at commencement to outstanding PTK members.

**Alpha Beta Gamma.** Alpha Beta Gamma is a national business honor society open to students who are majoring in business and recommended by at least two business faculty members. Membership is open to students who have completed 15 credit hours of credit with a grade point average of 3.00 or better; at least 12 of these hours must be earned in courses with a business prefix. In these courses a student must have earned a grade point average of 3.25 or better.

**Psi Beta.** Psi Beta is a national honor society for students interested in psychology who have earned 12 credit hours with a grade point average of 3.25 or better and who have completed PSYC 101 with a grade of "B" or better. In addition, students must complete the proper registration form and pay a fee.

**Semester Honors.** At the end of the spring and fall semesters a Highest Honors List and a Honors List are published to honor students for academic achievement. The criteria to qualify for these honors are as follows:

Highest Honors List for Full-time Students – Earn 12 or more college level credit hours with a semester grade point average of 3.75 or above.

Highest Honors List for Part-time Students – Earn 6-11 college level credit hours with a semester grade point average of 3.75 or above.

Honors List for Full-time Students – Earn 12 or more college level credit hours with a semester grade point average of 3.50 - 3.74.

Honors List for Part-time Students – Earn 6-11 college level credit hours with a semester grade point average of 3.50 - 3.74.

**Graduation Honors.** A student receiving an Associate's degree may graduate with honors by meeting the following requirements:

Summa Cum Laude – Must complete 60 hours of graded work at Black Hawk College with a cumulative 3.95 grade point average.

Magna Cum Laude – Must complete 45 hours of graded work at Black Hawk College with a cumulative 3.85 grade point average.

Cum Laude – Must complete 30 hours of graded work at Black Hawk College with a cumulative 3.75 grade point average.
Non-Traditional Credit

Departmental Proficiency  
Portfolio  
Advanced Placement Program  
College Level Examination Program (CLEP)  
Armed Services Experience  
High School Articulation

Students with wide varieties of educational experience can convert this experience into college credit. Credit may be earned by the following methods: (1) Departmental proficiency, (2) Advanced Placement Program, (3) College Level Examination Program (CLEP), (4) Armed Service Experience, and (5) High School Articulation.

Non-traditional credit is available only to persons who are currently enrolled or who have earned college credit at Black Hawk College.

Departmental Proficiency

This method offers students an opportunity to demonstrate on an individual basis their knowledge of a course and, if successful, to be awarded credit. The student must demonstrate mastery of a course through examination.

Students wishing departmental proficiency evaluation should first contact the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus). In all cases, decisions concerning the methods used and the decisions regarding awarding of credit on the basis of proficiency belong to the department.

Fees for proficiency courses at Black Hawk College include a $10 per credit hour tuition charge which is non-refundable and a $1 per course recording fee. Special fees will be assessed for certain courses requiring additional evaluative materials.

Portfolios

Students may attempt to earn credit for college level life-long or experiential learning through the writing and submission of a Prior Learning Portfolio (PLP). To use this option, a student must complete LIB 260. A student may only submit a PLP for courses approved by departments. A current list of courses is maintained in the Academic Advising Centers and with the ALS degree advisor(s). A maximum of nine credit hours may be earned toward any degree.

Advanced Placement Program

This program and associated tests are offered only in high schools. Students who have participated in the high school Advanced Placement (AP) program may be eligible to receive credit and advanced placement on the basis of tests in the following areas: American history, art history, biology chemistry, composition, European history, French language and literature, German, calculus, physics, and Spanish.

Students wishing such credit or placement should request the College Entrance Examination Board to send their AP scored examinations to the Enrollment Services Office. Upon notification, students may then have any credit which was awarded placed upon their transcript. A transcript recording fee of $10.00 per course will be assessed. Black Hawk College grants credit for the following:

Advanced Placement Tests Score BHC Course Credit

<table>
<thead>
<tr>
<th>Advanced Placement Tests</th>
<th>Score</th>
<th>BHC Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>3</td>
<td>HIST 251</td>
<td>3 credit hours</td>
</tr>
<tr>
<td>Art - History</td>
<td>3</td>
<td>ART 281</td>
<td>3 credit hours</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>BIOL 101</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>BIOL 105</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Biology</td>
<td>5</td>
<td>BIOL 105 &amp; 106</td>
<td>8 credit hours</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>CHEM 101</td>
<td>5 credit hours</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
<td>ENG 101</td>
<td>3 credit hours</td>
</tr>
<tr>
<td>European History</td>
<td>3</td>
<td>HIST 261</td>
<td>3 credit hours</td>
</tr>
<tr>
<td>French - Language/Literature</td>
<td>3</td>
<td>FREN 101</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>German</td>
<td>3</td>
<td>GERM 101</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Mathematics-Calculus AB</td>
<td>3</td>
<td>MATH 124</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Mathematics-Calculus BC</td>
<td>3</td>
<td>MATH 225</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Physics B</td>
<td>3</td>
<td>PHYS 101</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Physics C</td>
<td>3</td>
<td>PHYS 102</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>Spanish</td>
<td>3</td>
<td>SPAN 101</td>
<td>4 credit hours</td>
</tr>
</tbody>
</table>
College Level Examination Program

The College Level Examination Program (CLEP) is a national testing service that provides students an opportunity to demonstrate college-level learning from experiences outside the classroom. Black Hawk College participates by awarding credit based upon CLEP scores according to the established College policies given below.

Black Hawk College grants institutional credit based upon CLEP scores only to students who are currently enrolled or who have earned college credit at the College. Transferability of CLEP credit is subject to the policies of the transfer school, and the applicability of CLEP credit at Black Hawk College varies among degrees as described below. All CLEP examinations are in addition to, not a replacement of, other forms of proficiency examinations, including departmental proficiency examinations. No grades are assigned for credit received through CLEP.

Students wishing Black Hawk College credit on the basis of CLEP scores should use the following procedure:

1. Be thoroughly familiarized with College CLEP policies for each degree program.
2. At the time a CLEP examination is taken, request that scores be sent to Black Hawk College. If the examination was taken previously and scores were not sent to the College, a request should be made in writing to CLEP, Educational Testing Service, Box 1821, Princeton, New Jersey 08540, that the test result be sent to Black Hawk College.
3. Once the College has received the scores, request, in person, that the Registrar record credit which was awarded on the basis of these scores. At that time, a $10.00 transcript recording fee (which is subject to change) will be assessed.

The College Level Examination Program includes two types of examinations, both of which are used by Black Hawk College as a basis for granting of credit. The CLEP General Examinations cover the areas of mathematics, natural sciences, and social sciences-history. The General Examinations are intended to cover learning usually included within the general education requirements in a College program. The CLEP Subject Examinations test the knowledge or skills achieved by students completing specific freshman-sophomore level courses.

The following chart explains the use of CLEP examinations at Black Hawk College, including the type of examination accepted by Black Hawk College; the Black Hawk College equivalent course, if any; minimum score required to receive credit; number of credit hours awarded; and how credits apply toward various Black Hawk College degrees and certificates.

<table>
<thead>
<tr>
<th>CLEP TEST</th>
<th>BHC Course Equivalent</th>
<th>Minimum Score Needed</th>
<th>Credit Hrs.</th>
<th>Core</th>
<th>Group</th>
<th>General Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Exams</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>No Equivalent</td>
<td>497</td>
<td>6</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Natural Science</td>
<td>No Equivalent</td>
<td>489</td>
<td>6</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Social Science- History</td>
<td>No Equivalent</td>
<td>489</td>
<td>6</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>Subject Exams</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting, Introduction</td>
<td>ACCT 101-102 or BA 170-180</td>
<td>47</td>
<td>6</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anatomy, Physiology, Microbiology</td>
<td>No Equivalent</td>
<td>49</td>
<td>6</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>No Equivalent</td>
<td>55</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Law</td>
<td>BL 201</td>
<td>51</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Management, Intro</td>
<td>BA 240</td>
<td>47</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Marketing, Intro</td>
<td>BA 230</td>
<td>48</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry (Chemical)</td>
<td>No Equivalent</td>
<td>50</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry (General)</td>
<td>CHEM 110-111</td>
<td>48</td>
<td>8</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computers &amp; Data Processing</td>
<td>CS 100</td>
<td>46</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economics, Macro</td>
<td>ECON 221</td>
<td>48</td>
<td>3</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Economics, Micro</td>
<td>ECON 222</td>
<td>47</td>
<td>3</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>History, Afro-American</td>
<td>HIST 200</td>
<td>49</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History, American</td>
<td>HIST 251-252</td>
<td>46</td>
<td>6</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History, West. Civilization</td>
<td>HIST 121-122</td>
<td>50</td>
<td>6</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
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<tr>
<td>Human Growth &amp; Development</td>
<td>CD 200</td>
<td>47</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics, College Algebra</td>
<td>MATH 112</td>
<td>50</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics, Statistics</td>
<td>MATH 228</td>
<td>48</td>
<td>3</td>
<td>-ALS DEGREE ONLY-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEP TEST</td>
<td>BHC Course Equivalent</td>
<td>Minimum Score Needed</td>
<td>Credit Hrs.</td>
<td>Core</td>
<td>Group</td>
<td>General Elective</td>
</tr>
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<td>-------------------------------</td>
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</tr>
<tr>
<td>Mathematics, Trigonometry</td>
<td>MATH 116</td>
<td>46</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>-ALS DEGREE ONLY-</td>
</tr>
<tr>
<td>Money and Banking</td>
<td>AIB 200</td>
<td>48</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>-ALS DEGREE ONLY-</td>
</tr>
<tr>
<td>Political Science, American</td>
<td>POLS 251</td>
<td>47</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>-ALS DEGREE ONLY-</td>
</tr>
<tr>
<td>Psychology, Educational</td>
<td>PSYCH 290</td>
<td>47</td>
<td>3</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Psychology, General</td>
<td>PSYCH 101</td>
<td>47</td>
<td>3</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Sociology, Introduction</td>
<td>SOC 101</td>
<td>47</td>
<td>3</td>
<td>X</td>
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</tr>
</tbody>
</table>

**Armed Service Experience**

**Health and Physical Education Credit.** To receive this credit, applicants must submit to the Registrar their DD Form 214 (Armed Forces of the United States Report of Transfer or Discharge). Veterans are eligible to receive credit for Health 102 (2 credit hours) and for physical education (4 credit hours) provided that the military service was of more than one year's duration. There is no charge for recording this credit on the transcript.

**DANTES and USAFI.** Guidelines for the acceptance of Defense Activity Non-Traditional Education Support (DANTES), previously known as United States Armed Forces Institute (USAFI) are available from the Enrollment Services Office.

**Military Training School.** Military training school experiences will be evaluated by personnel in the appropriate department, and credit will be awarded only if there are existing College courses which parallel the military training received. Evaluation will be based upon the ACE's "The Guide to the Evaluation of Educational Experiences in the Armed Services."

Students wishing to apply for such credit should determine the parallel courses by comparing the Guide recommendations with course descriptions in the College catalog. Copies of the Guide are available in the Enrollment Services Office (Quad-Cities Campus) and LRC (East Campus). A copy of the recommendations from the Guide and proof of the appropriate military training program must be submitted to the Registrar before military training credit will be considered.

Students wishing to receive credit for military training experience should first contact the Enrollment Services Office.

**High School Articulation**

The College has a number of articulation agreements with area high schools. These agreements enable students who have completed particular high school courses to receive credit for specified college courses. For information about these courses and requirements for articulated credit, contact the Enrollment Services Office at the Quad-Cities Campus or the Admissions Office at the East Campus.
Graduation Requirements

**Illinois Articulation Initiative Agreement (IAI)**

Black Hawk College is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the completed General Education Core Curriculum (GECC) among participating institutions. Completion of the GECC at any participating college or university in Illinois assures transferring students that the general education lower division requirements for a participating associate’s or bachelor's degree have been satisfied. This agreement is in effect for students entering an associate or baccalaureate degree granting institution as a first time student in the summer of 1998 and thereafter.

The following codes identify qualifying general education courses: IAI C (Communication), IAI F (Fine Arts), IAI H (Humanities), IAI L (Life Sciences), IAI M (Mathematics), IAI P (Physical Sciences), IAI S (Social/Behavioral Sciences). See an academic advisor for additional information and read about the IAI on the World Wide Web (http://www.itransfer.org/).

Students will be able to realize the benefit of this statewide articulation agreement by completing the General Education Core Curriculum alone or by earning the Associate of Arts or Science degrees. Students would be well advised to complete the Associate in Arts or Associate in Science degree requirements in order to achieve the additional benefits of the AA/AS credential to gain the additional benefits of compact and/or course equivalency agreements which have been negotiated with senior institutions. Students who transfer before completing the General Education Core Curriculum or the Associate Degree may find that not all of their coursework will transfer as general education course equivalencies. In addition, students should be aware that a grade of "C" or better in English 101 and English 102 is required for these courses to be included in the IAI General Education Core Curriculum.

**Purpose of General Education**

General education is a part of every student's formal course of study regardless of his/her technical, vocational, or professional preparation. It is intended to provide lifelong learning, develop personal values, prepare individuals to adapt to change in an interdependent world community, foster self-esteem and motivation, and attain skills in analysis, communication, quantification and synthesis. A Black Hawk College student completing the general education requirements will be able to think critically, communicate effectively, and demonstrate multicultural and aesthetic understanding.

**Graduation**

Meeting graduation requirements is ultimately the responsibility of the student. Students are encouraged to work with their advisors in selecting courses to meet their educational objectives.

Students must apply for graduation before the deadlines. These dates are available in the semester Class Schedules, the Enrollment Services Office (Quad-Cities Campus) or Admissions Office (East Campus). Diplomas and certificates are mailed six to eight weeks after the end of the semester in which the students are approved to graduate.

Commencement ceremonies are the culmination of the student's program of study. Each spring, BHC conducts a graduation ceremony whereby faculty, staff, family and friends come together to recognize academic achievements. All eligible degree and certificate candidates are encouraged to participate in commencement activities.

**Associate in Arts/Associate in Science**

**Note:** Students may graduate under the current degree requirements or under degree requirements in effect at their first enrollment. Students whose enrollment has been interrupted for two or more years must follow the graduation requirements of the catalog current at the time of re-entry or any catalog published after re-entry.

The Associate in Arts/Associate in Science degree programs are the first two years of study for those students who plan to pursue a baccalaureate degree. Students pursuing these degrees and planning to transfer to a senior institution should read page 45.

Students seeking an Associate in Arts degree should follow one of the curricula in the catalog recommended for an Associate in Arts degree beginning on page 100. Students with a specific transfer institution in mind should contact that school for specific course recommendations.

The Associate in Science Degree is available to those students who are pursuing a science-oriented or pre-professional curriculum in the Departments of Agriculture (East Campus),...
Computer Science, Natural Sciences and Engineering, and Transfer.

Students seeking an Associate in Science degree should follow one of the curricula in the catalog recommended for an Associate in Science degree beginning on page 100. Students with a specific transfer institution in mind should contact that school for specific course recommendations.

Only one Associate in Arts degree or one Associate in Science degree may be earned from Black Hawk College. If a student has received an associate's degree from another college, the student may receive an additional Associate's degree from Black Hawk College if all program requirements for the degree are met.

Each student who is awarded an Associate in Arts or Associate in Science degree by the College shall have completed:

1. A total of sixty-four (64) credit hours with a "C" (2.0) grade point average or above for all work completed at Black Hawk College.
2. Forty (40) to forty-three (43) credit hours of general education:

   Communications: 3 courses (9 semester credits), including a two-course sequence in writing (6 semester credits) and one course (3 semester credits) in oral communication. A grade of "C" or better in English 101 and English 102 is required for those courses to be eligible to be included in the IAI General Education Core Curriculum.

   ENG 101 Composition I
   ENG 102 Composition II
   SPEC 101 Principles of Speech Communication

   Mathematics and Computer Science: 2 courses (6 semester credits) with a minimum of one course (3 semester credits) in mathematics required.

   Mathematics
   ECON 228 Probability and Statistics for Business and Economics
   MATH 108 Statistics for General Education
   MATH 110 Mathematics for General Education
   MATH 124 Calculus I with Analytic Geometry
   MATH 131 Finite Mathematics
   MATH 132 Mathematical Analysis
   MATH 161 Discrete Mathematics
   MATH 225 Calculus II with Analytic Geometry
   MATH 226 Calculus III with Analytic Geometry
   MATH 228 Probability and Statistics

   Education Majors Only:
   MATH 200 Mathematics for Elem. Ed. Teachers II

Computer Science
   CS 100 Intro to Computers
   CS 101 Intro to Structured Programming
   CS 121 Intro to Computer Science

Education Majors Only:
   CS 210 Intro to Educational Computing

Physical and Life Sciences: 2 courses (7 to 8 semester credits), with one course selected from the life sciences and one course from the physical sciences and including at least one laboratory course.

   Physical Sciences
   ASTR 101 Descriptive Astronomy
   ASTR 102 Descriptive Astronomy
   CHEM 101 General Chemistry I
   CHEM 110 Introduction to Chemistry
   CHEM 111 Principles of Organo-Biochemistry
   GEOG 101 Physical Geography
   GEOG 102 Physical Geography
   GEOG 106 Introductory Meteorology (no lab)
   GEOL 101 Physical Geology
   GEOL 102 Historical Geology
   PHYS 101 General Physics
   PHYS 110 Introduction to Physics
   PHYS 140 Practical Physics (no lab)
   PHYS 201 General Physics
   PS 101 Introduction to Physical Science
   PS 205 Issues in Science, Technology, and Society

   Life Sciences
   BIOL 100 Introduction to Biology
   BIOL 101 General Human Biology
   BIOL 105 General Biology I
   BIOL 108 Principles of Biology I
   BIOL 109 Principles of Biology II
   BIOL 135 Evolution of Microbes and Humans
   BIOL 190 General Zoology
   BIOL 200 Environmental Biology I (no lab)
   BIOL 201 Environmental Biology II (no lab)
   BIOL 211 General Botany
   BIOL 250 Genetics (no lab)

   Humanities and Fine Arts: 3 courses (9 semester credits), with at least one course selected from humanities and at least one course from the fine arts.

   Humanities
   ENG 190 Introduction to Literature
   ENG 206 Minority American Literature
   ENG 207 Introduction to Women Writers
   ENG 210 Introduction to Fiction
   ENG 213 American Literature
   ENG 214 American Literature
   ENG 215 World Literature
   ENG 216 World Literature
   ENG 221 English Literature
   ENG 222 English Literature
   ENG 223 Shakespeare
   FREN 202 Intermediate French II
must have a grade of "C" or better in those courses in order to obtain transfer credit.

4. Electives. Students should select only articulated transfer or career courses as electives to satisfy the 64 credit hour requirement. Articulated courses are defined as those which have been evaluated by at least three state universities in Illinois as accepted for transfer credit. Because requirements vary among institutions and from state to state, students should request assistance in determining course transferability from their academic advisor or in Advisement Services on the Quad-Cities campus and the Advising Center or Admissions Office on the East Campus.

5. Student must earn at least 24 credit hours, excluding CLEP, proficiency and military credit, at Black Hawk College.

6. The requirements of the School Code Section 27-3: The student can successfully pass an examination covering the Declaration of Independence, Constitution of the United States of America, Constitution of the State of Illinois, the proper use and display of the American flag, and the Australian Ballot System. Black Hawk College will accept as evidence that the student has met this requirement:
   a. Successful completion, with a passing grade, of POLS 252, which includes the materials related to the Constitution and other items as specified in the School Code Section 27-3.
   b. Illinois high school transcripts that clearly identify that the student has met the requirement. This evidence will authorize the College to make a similar notation on the college transcript.

7. Other provisions:
   a. Non-Western Studies: 1 course (3 semester credits)
      *AG 288 Agriculture of Developing Countries
      ANTH 102 Introduction to Cultural Anthropology
      ART 285 Survey of Asian Art
      *ECON 270 Intro to International Business
      ENG 217 African & Caribbean Literature
      ENG 218 Latin American Literature
      ENG 219 Eastern Literatures
      GEOG 105 Introductory Regional Geography
      HIST 141 Eastern Civilization I
      HIST 142 Eastern Civilization II
      HIST 151 History of the Middle East since 1700
      HIST 181 History of Latin American Civilization to 1825
      HIST 182 History of Latin American Civilization since 1825
      HIST 222 Comparative Religions
      IS 220 Global Issues
      MUSC 158 Introduction to Non-Western Music
      POLS 262 Introduction to Comparative Government: Non-European
      *SPEC 175 Intercultural Communication

3. A grade of C or better in English 101 and English 102 is required for graduation. Students transferring courses equivalent to English 101 and 102 to Black Hawk College
Education majors only: Students should check with an advisor to be sure that their Non-Western course selection meets the State Teacher Certification Board's definition of "Non-Western and third world cultures" as interpreted by the senior institution where they intend to transfer.

b. Credit earned through the College Level Examination (CLEP) may apply toward the AA/AS degree as stated on page 36.

c. Up to four credits of physical education activity courses will count as electives toward graduation. The HPE Varsity Sports Courses (numbers 101-122) will be evaluated as activity courses for the purpose of graduation.

d. Up to four credits of applied music lessons will count as electives toward graduation. Persons who plan to transfer as music majors may use 12 credits of applied music lessons as electives toward graduation.

e. No courses numbered below 100 will apply toward satisfying any AA/AS degree requirements.

f. The human relations requirement is met for all Black Hawk College degree candidates within the required General Education Core Curriculum through such courses as PSYC 101, 219, 230; SOC 101, 222, 250, 251; SPEC 101.

*Does not satisfy IAI General Education Core Curriculum.

Associate in Applied Science

Note: Students may graduate under the current degree requirements or any degree requirements in effect since first enrollment. Students whose enrollment has been interrupted for two or more years must follow the graduation requirements of the catalog current at the time of re-entry or any catalog published after re-entry.

Each student who is awarded an Associate in Applied Science Degree must complete the total number of credit hours as required by his/her particular curriculum. The general education component of any AAS curriculum is a minimum of 15 credit hours. A student may receive more than one Associate in Applied Science degree if all specified requirements for the additional degree are met.

In general, a student may be granted the Associate in Applied Science Degree in a career program when the following requirements have been met:

1. The student shall have completed the required credit hours of credit and specific course requirements for one of the Associate in Applied Science curricula beginning on page 55.

2. General education course requirements for the Associate in Applied Science Degree are:
   a. One course from the Communications Group (three hours minimum)
   b. One course from the Mathematics and Computer Science group (three hours minimum)
   c. The remaining general education courses are to be taken from any of the six categories so that three of the six categories are used to satisfy the general education component.

Communications (3 credit hours minimum)

BE 180
COMM 100, 105
ENG 101, 102, 103, 132
SPEC 101, 111, 114, 120

Humanities

ART 100, 101, 281, 282
*ENG 190, 206, 207, 223, 210, 213, 214, 215, 216, 221, 222
FREN 101, 102, 201, 202
GERM 101, 102, 201, 202
HIST 120, 121, 122
HUM 101, 102
ITAL 101, 102
JAPN 101, 102, 201, 202
MUSC 153, 154, 256
PHIL 101, 103, 206
SPAN 101, 102, 201, 202
SPEC 114
THEA 111
TV 212

Social Sciences

ACCT 101, 102
AG 121, 281
ANTH 101, 102
MECH 213
BA 110, 170*, 180*
ECON 150*, 221, 222
GEOG 105
HIST 251, 252
POOLS 191, 251, 252
PSYC 101, 230
SOC 101, 200

*Courses that may not be transferable; students planning to transfer should take ACCT 101, 102, or another Economics course.

Mathematics and Computer Science

AG 123, 225
BA 160*
CS 100*
ECON 228
MATH 103, 108, 110, 112, 113, 116, 118, 123, 124, 131, 223, 228
PHIL 202*
RC 100
TMAT 101

*Courses that may not meet mathematics requirements at certain colleges and universities.
Science
AG 135, 136, 137, 142
ASTR 101, 102
BIOL 100, 101, 105, 106, 108, 109, 145, 146, 150, 190, 200, 201, 211, 261
CHEM 101, 102, 110, 111
GEOG 101, 102, 106, 107
GEOL 101, 102
PHYS 101, 102, 110, 140, 200, 201, 202
PN 110

Non-Western (International Studies)
AG 288
ARCH 203
ART 285
BA 270*
ECON 270
ENG 217, 218, 219
HIST 141, 142, 151, 181, 182, 222
MUSC 158
POLS 262
SPEC 175

*Course that may not be transferable; students planning to transfer this course should take ECON 270.

3. The student shall have an overall grade average of "C" (2.0) or above for all work completed at Black Hawk College.

4. The student shall have completed twenty percent of the credit hours at Black Hawk College.

5. The student may earn no more than fifty percent of proficiency course credit in the curriculum leading to a degree.

6. The student may earn a maximum of thirty credit hours of credit through the College Level Examination Program (CLEP) which may apply towards the AAS degree as stated on page 36.

7. The requirements of the School Code Section 27-3: The student can successfully pass an examination covering the Declaration of Independence, Constitution of the United States of America, Constitution of the State of Illinois, the proper use and display of the American flag, and the Australian Ballot System. Black Hawk College will accept as evidence that the student has met this requirement:

a. Successful completion, with a passing grade, of POLS 252, which includes the materials related to the Constitution and other items as specified in the School Code Section 27-3.

b. Illinois high school transcripts that clearly identify that the student has met the requirement. This evidence will authorize the College to make a similar notation on the college transcript.

Associate in Liberal Studies

Purpose. The Associate in Liberal Studies Degree (ALS) was developed to offer mature students an alternative program if their personal needs and goals cannot be accomplished within the structure of a traditional degree program. Thus, students pursuing this degree option must have clearly defined needs and goals, and these must be of the type that cannot be realized through the more traditional associate degree programs. During the initial interview, ALS advisors determine whether or not the student should be pursuing the degree.

The ALS Degree is not intended as a preparation for transfer to a senior school, and, in most cases, students intending to complete baccalaureate degrees should pursue an AA or AS degree. However, at the discretion of the transfer institution, some or all of the course work included within the ALS Degree program may be accepted as applicable to a bachelor's degree.

For the ALS Degree, students carefully plan a course of study that will allow them to accomplish their defined educational goals and needs. Courses included within this plan must then be approved by an ALS advisor, and any subsequent variation from it must also have prior approval from that same advisor.

Degree requirements are:
1. The student must complete a minimum of 64 credit hours of credit with a "C" (2.0) or above average for all college work attempted. (Courses numbered below 100 may not be applied toward the ALS degree.)

2. A written statement of the student's educational goals and a written course of study to accomplish them must be completed and approved by an ALS advisor prior to the student's registration for the last 32 credit hours of college credit work, not to include any credit from proficiency examinations or national testing programs. If a student fails to complete the "written course of study" before the final 33 credit hours, the following requirement applies as to when the agreement is initiated: between 33-45 credit hours, the student must complete a one credit capstone course; between 46-54 credit hours, the student must complete a two credit capstone course; and with 55 credits or more, the student must complete a three credit capstone course. The capstone course maybe LIB 250, LIB 260, IND 299, or a departmental independent study. The capstone course will be undertaken with a faculty member and must be approved as part of the ALS degree agreement.

3. The student must complete a core curriculum of 21 credit hours with a minimum of three hours of credit in each of the following areas: written communication skills, spoken communication skills, humanities, social sciences, science, mathematics, and Non-Western studies. A detailed description of this core curriculum follows.
4. The student must complete ten credit hours of college credit work at Black Hawk College, but this does not have to be the last ten hours of work. No credit earned through national testing programs or college proficiency examinations may be included within this ten-hour requirement.

5. No more than twenty-five percent of credit applied toward the ALS Degree may be earned in Independent Study 299.

6. The requirements of the School Code Section 27-3: The student can successfully pass an examination covering the Declaration of Independence, Constitution of the United States of America, Constitution of the State of Illinois, the proper use and display of the American flag, and the Australian Ballot System. Black Hawk College will accept as evidence that the student has met this requirement:
   a. Successful completion, with a passing grade, of POLS 252, which includes the materials related to the Constitution and other items as specified in the School Code Section 27-3.
   b. Illinois high school transcripts that clearly identify that the student has met the requirement. This evidence will authorize the College to make a similar notation on the college transcript.

Core Curriculum. The purpose of the ALS core curriculum is to ensure that the student’s course of study possesses sufficient breadth to qualify as a college degree. The requirements for the core curriculum can be satisfied by credit earned at Black Hawk College or by credit accepted in transfer from other accredited colleges and universities. These requirements may also be satisfied by credit earned on the basis of the appropriate general or subject examinations in the College Level Examination Program (CLEP).

Three or more credit hours of credit must be earned in each of the following areas by the completion of courses listed:

Written Communication Skills
   BE 180
   COMM 105
   ENG 101, 231, 232
   JOUR 222

Spoken Communication Skills
   SPEC 101, 111, 114

Humanities
   HUM 101, 102
   ART 100, 281, 282
   Any literature class in English (except ENG 217, 218, or 219)
   Any history course except HIST 141, 142, 181, 182, 222, 255
   MUSC 153, 154, 256
   Any philosophy course except PHIL 202
   THEA 111
   TV 212
   any foreign language course.

Social Sciences
   ANTH 101, 102
   ARCH 203, 204
   ECON 150, 221, 222
   GEOG 105
   Any history course except HIST 126, 255, 222
   Any psychology course except PSYC 105
   Any political science course except POLS 264
   Any sociology course except SOC 222
   CD 200
   CRJU 200
   LAB 101, 206, 207

Science
   ASTR 101, 102
   Any biology course except BIOL 150
   Any chemistry course
   HPE 220 or 221
   Any geography course except GEOG 105
   Any physics course except PHYS 150
   PN 110

Mathematics
   Any mathematics course numbered 100 or above
   Any computer science course (CS Prefix)
   BA 160 or BA 220*

Non-Western Studies
   AG 288
   ARCH 203
   ART 285
   BA 270
   ECON 270
   ENG 217, 218, 219
   MUSC 158
   POLS 141, 142, 151, 181, 182, 222
   SPEC 175

In some cases, as a result of a consideration of the student’s needs and goals and his or her planned course of study, an ALS advisor may allow substitution of courses in the above list, if appropriate.

Educational Agreement. The ALS Degree Educational Agreement establishes clearly the student’s educational needs and goals and outlines a precise set of courses that the student must complete for the degree. Both advisor and student must sign this agreement, and it can be modified only with the approval of both.

All students pursuing the ALS Degree are assigned specially trained academic advisors who assist them in completing the degree agreement and provide continuing assistance and advisement. Students interested in pursuing the ALS Degree or those wishing additional information should contact the Black Hawk College Advising Services Department.

Servicemen's Opportunity College. Through its ALS Degree, Black Hawk College has been designated as a Servicemen's Opportunity College (SOC) by the American Association of Community and Junior Colleges and the American Association of State Colleges and Universities. This designation reflects the College's commitment, through the
ALS Degree, to respond to the educational needs of military service personnel.

Military personnel interested in making application for an educational agreement for the ALS Degree may obtain information and academic advisement by calling the Black Hawk College Advising Services Department.

**Career Program Certificates**

A student may be granted a certificate in a career program when the following requirements have been met:

1. The student shall have completed the prescribed curriculum with the required credit hours of credit.

2. The student shall have an overall grade average of "C" (2.0) or above for all work completed in the curriculum for which the certificate is awarded.

3. Unless otherwise specified, the career student shall complete the last twenty percent of the credit hours at Black Hawk College and shall earn a minimum of thirty percent of the credit hours of credit at Black Hawk College.

4. Credit earned through the College Level Examination Program (CLEP) may apply toward certificates as stated on page 36.

5. Students completing a career program curriculum for which there is no associate's degree may apply these credits toward an Associate in Liberal Studies Degree.
Transfer of Graduates

Transfer Center
Transfer Programs

The choice of a transfer school is not a simple matter. In Illinois alone, there are twelve public and over ninety private colleges and universities. The selection of a baccalaureate institution should be an individual decision based upon the compatibility of the student with the academic programs, facilities, student body size, location, philosophy, and cost of attending the transfer school. Above all else, the decision should be one which is based upon as much accurate information as the student can possibly accumulate.

Transfer Center

The Transfer Center provides services to students whose academic goals include transfer to another college/university. It serves as a resource center of transfer materials including catalogs, brochures, online searches, scholarship information, and applications for the transfer student. Information about support services and specialized programs for minority students at baccalaureate granting institutions is available in the Center. At East Campus, the Advising Center and the Career Resource Center provide transfer information and services to students.

Transfer Programs

Black Hawk College is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the completed General Education Core Curriculum (GECC) among participating institutions. Completion of the GECC at any participating college or university in Illinois assures transferring students that the general education lower division requirements for an Associate’s or Bachelor's degree have been satisfied. This agreement is in effect for students entering a participating associate or baccalaureate degree granting institution as a first time student in the summer of 1998 and thereafter. Students will be able to realize the benefit of this statewide articulation agreement by completing the General Education Core Curriculum. Students can refer to the IAI Web site for information on the General Education Core Curriculum as well as requirements for some majors (http://www.i-transfer.org/). Students would be well advised to complete the Associate in Arts or Associate in Science degree requirements in order to gain the additional benefits of compact and/or course equivalency agreements which have been negotiated with baccalaureate institutions. Students who transfer before completing the General Education Core Curriculum or the Associate's degree may find that not all of their coursework will transfer as general education course equivalencies.

Career Programs
Transfer of Courses

Black Hawk College maintains an articulation directory accessible through the College's Web page at http://www.bhc.edu/. It is helpful in identifying course transferability between Black Hawk and other colleges and universities. In addition, agreements exist with other private and public institutions that are not participants in the Illinois Articulation Initiative mentioned above. Students should check with Advisement Services on the Quad-Cities Campus and the Advising Center or the Admissions Office on the East Campus for full details. It is the responsibility of the student to check with the transfer school so they are aware of the degree requirements. Transfer students should also be aware that specific programs and majors have prerequisite courses in addition to general education requirements. This is especially true of professional programs in business, engineering, and education. Students are urged to work closely with academic advisors both at Black Hawk and the transfer school. Specific questions regarding requirements for admission to a particular field of study or to a particular institution may be directed to that institution.

Career Programs

Courses and curricula in the Career Programs at Black Hawk College are intended to provide employment skills in a wide variety of areas and are not primarily intended for transfer. However, in some cases, completed Associate in Applied Science degrees maybe transferred to certain special programs at selected institutions. The "Capstone" Program at Southern Illinois University (Carbondale) is one such program. In addition, courses within career curricula may transfer to certain baccalaureate institutions. In all cases, students should check with their academic advisor, Advisement Services on the Quad-Cities Campus, or the Advising Center on the East Campus to determine the transfer status of their particular course or program. Specific questions regarding requirements for admission to a particular field of study or to a particular institution may be directed to that institution.

Transfer of Courses

Students may determine how career program and transfer program courses offered by Black Hawk are accepted by a variety of state universities and private institutions by referring to the Course Equivalency tables which can be accessed from the Black Hawk College Web page at http://www.bhc.edu/.
Services to Students

Advisement Services  
Career Services  
Child Care  
Counseling  
Disability Accommodations  
Enrollment Service  
Financial Aid  
Housing  
Independent Learning Center (ILC)  
Intercollegiate Athletics  
Libraries  
Multi-Cultural Affairs  
Student Activities  
Student Success Center

The services provided through these areas are designed to assist all students in meeting personal and educational objectives. These include:

Advisement Services

Advisors aid students in developing an educational program which is both enriching and purposeful. The advisor is concerned with the student's academic progress, career and professional aspirations, development of an academic program, and revision of the academic program, when necessary. Faculty, counselors and educational advisors all serve as academic advisors to students.

Students are strongly encouraged to meet with their advisor each semester. Frequent advisor contact will help ensure that students have current academic information and are making adequate progress toward educational goals. Faculty, professional advisors, and the student generally share responsibility for academic advising.

Advising Center. Educational advisors offer assistance to both currently enrolled and prospective students.

Services include:
- General admission regulations and program specific admission requirements.
- Explanation of all registration processes.
- Assistance with selecting classes, drop options, and schedule changes.
- Prerequisite explanations and course descriptions.
- Transfer planning for those students considering transfer to or from a university or college.
- Referral to other college services that assist students in achieving educational goals.
- Progress toward graduation.
- Change of advisor or major.

Articulation Services. Current information on the transferability of career and transfer program courses is provided to students by accessing http://www.bhc.edu/. Information to assist students in appropriate course selection for baccalaureate degree requirements and specific majors is also provided.

Faculty Advising. Faculty are in a key position to explore advising issues with students including program requirements, degree and transfer options, and the development of educational plans. Some Black Hawk College programs require students to meet with a faculty advisor prior to registration.

Career Services

The purpose of the Black Hawk College Career System is to enhance student learning in pursuit of career goals and assist students, alumni, employers, and the community in developing a qualified, competitive workforce.

Career development (self assessment, interest testing, career exploration and job search) services are available individually or in groups, all without charge. Services range in format from credit and non-credit courses, workshops, and seminars to community presentations. Most services are free of charge unless they receive college credit. Career development services are available at each of the following Black Hawk College sites: Quad-Cities Campus, East Campus, Quad Cities Outreach Centers, and the Illinois Employment and Training Center.

Career Centers. The Career Services Center on the Quad-Cities campus and the Career Resource Center at East Campus and Quad-Cities Outreach Center provide trained career advisors and extensive resources for all stages of career development research. Research materials include occupational and career development books, Internet sites, labor market trends, current job listings, and job search materials (resumes, cover letters, interviewing skills).

Career Counseling. Professional services are available to help the individual make responsible decisions about career choices. Students can assess their career interests, personality traits, skills, and values through various career tests.

The DISCOVER program is a user-friendly computer interactive career guidance and research system. DISCOVER is available at the Quad-Cities and East Campus sites. It includes extensive occupational information on over 500 careers, 6,500 educational and training institutions, college and financial aid sources, and more. This program is useful in
career planning when a person is unclear about their interests, values and abilities and wishes to expand knowledge of themselves and careers or some someone wishing to confirm what they believe will be their career choice. DISCOVER is free but appointments are required. Other tests include the Self Directed Search, CAPS/COPS/COPES, Strong Interest Inventory, and many others.

**Job Placement** Services are available at all sites to offer assistance to students, alumni and the community in finding both full-time and part-time employment. Other services include developing the skills that will help obtain jobs: interviewing techniques, resume and cover letter writing, job applications and skills identification. Internships and job shadowing experiences are also offered to students. A computerized Job Placement System, local job books, Internet job search sites, and an annual Job Fair are also offered to students, alumni and the community.

**Career Assistants** Career Assistants are Black Hawk College students who are trained to assist other students in a variety of career development areas, including: resume writing, cover letters, job search skills, interviewing skills, interest testing and self assessment. Career Assistants are selected yearly by a committee of students and Career Services Center staff.

**Child Care**

On-campus child care is available to students, staff and faculty at the Quad-Cities Campus. Services are offered Monday-Friday for children ages 2-6 years and the program is fully licensed by the State of Illinois. Services are available days during the fall and spring semesters. The Center for Early Learning is located in a self-contained building next to Building #2. Registration is open year-round and is separate from class registration.

**Counseling**

The Black Hawk College counselors assist students in achieving their educational goals by providing a variety of services to support student success. Services include: career exploration and planning, testing and assessment, communication skills, test and speech anxiety, self-esteem development, problem solving, decision making, stress management, coping skills, assertiveness training, time management, and study habits, as well as other personal, social and cultural development issues. Services are confidential and available at no cost to students. Students may request to see a counselor immediately because of a crisis situation.

**Disability Accommodations**

Black Hawk College is committed to making its services, programs, and activities equally available to people with disabilities. Student Accommodations staff provide assistance to students with a wide range of disabilities including hearing impairments, visual impairments, mobility impairments, learning disabilities, Attention Deficit Disorder, and others.

Examples of services to students include 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 to Student Accommodations staff and provide documentation of disability. Persons with disabilities are encouraged to complete this first step as early as possible before the start of the semester.

**Enrollment Services**

The Enrollment Services Office (Admissions Office at East Campus) offers assistance in the areas of recruitment, admissions, registration, and academic records. The Enrollment Services Office provides general College information; provides admission guidelines and program-specific admission requirements; assists students in the enrollment process; maintains academic records of students; and confirms completion of degree and certificate requirements.

**Financial Aid**

The goal of the financial aid program is to help remove the economic barriers to higher education for all individuals in our community. Black Hawk College attempts to provide financial assistance for students through scholarships, grants, loans, and work opportunities. Financial aid may be offered singly or in various combinations.

The taxpayers of the district and the state underwrite a sizable part of the cost of education at Black Hawk College. Therefore, all Illinois residents are provided aid through low tuition charges. A student and his/her family are expected to make a maximum effort to assist with college expenses. College financial assistance should be regarded as a supplement to the effort of the family.

**Housing**

Black Hawk College does not have dormitories or other housing available on campus. While the College is informed of available housing in the area, it does not have a policy of approving such housing for its students. Students interested in lists of housing at the East Campus should contact the Admissions Office. This is an availability list, not an authorized list attesting to the quality of housing provided. Students at the Quad-Cities Campus are advised to check the local newspapers.

The State of Illinois prevents community colleges from building dormitories. The College has no jurisdiction to establish, supervise, or in any way restrict the housing choices made by students. The College has no authority to negotiate with renters for students, to supervise rental agreements, or to inspect housing.

The Black Hawk East College Foundation has student apartments available adjacent to the East Campus.
Independent Learning Center (ILC)

Quad-Cities Campus. The Independent Learning Center (ILC) is located in the lower level of Building #1 and is an area in which students are provided academic support services for instructional programs. Computerized instructional materials, handouts, cassette tapes, and videotapes are among the types of materials available. The ILC also houses microcomputer labs and a testing room.

East Campus. The East Campus Independent Learning Center provides test proctoring services for Study Unlimited and Going the Distance courses, make-up tests for part-time instructors, and GED testing at specific posted hours during the fall, spring and summer sessions.

Intercultural and Community Affairs

The Intercultural and Community Affairs (ICA) Office coordinates activities that assist the College District's multicultural community in gaining access to Black Hawk College and helps students in completing their educational goals. The Intercultural and Community Affairs Office deals specifically with the concerns of African-Americans, Hispanics, Asians, Pacific Islanders, Native American and Alaskan Native students. ICA assists students with academic advisement, counseling, financial aid, and student organizations. ICA makes appropriate referrals regarding school services, career exploration, and employment. ICA also assists the community and businesses with diversity needs.

Prospective students or agencies requesting services may call, write, or stop by the ICA Office located in Building #1 at the Quad-Cities Campus or the ICA Office located in A-wing of the main building at East Campus for information. Current students are also welcome to stop in if they have questions.

Libraries

Quad-Cities Campus. The Quad-Cities Campus library provides access to print and electronic/resources that support the instructional programs at the College. The Library Web site at http://www.bhc.edu/academics/Library/index.htm describes the collections and services available.

East Campus. The East Campus library has a strong and varied collection of print and online resources for students, faculty, and staff. It is a member of the Alliance Library System and provides access to CARL, an online catalog and circulation system. Interlibrary loans are provided with connections to a variety of databases. Additionally, the East Campus Library supports Distance Learning and Study Unlimited classes with staff and technical support.

Student Success Center

The Student Success Center is located below the Library in Building #1 on the Quad-Cities Campus. Services provided to all students include one-on-one tutoring, tutoring labs in many subject areas, study groups, learning styles instruction and coaching, and assistance with successful learning practices such as study skills, time management, note taking and test taking. The Center works with students to identify problem areas and obstacles to success in college. The Student Support Services TRIO grant is also housed in the Center. TRIO is a federally-funded program that assists eligible students with the goals of graduation and transfer to a four-year school.

The East Campus Student Success Center is a part of the Education to Careers Center on the second floor of Building A.
Flexible Learning Options

Evening College
Weekend College
Going the Distance Telecourses
Online Learning

Evening College

Black Hawk College students may earn a degree entirely through flexible learning options. Students with busy schedules will also find it convenient to enroll in courses offered through Evening College, Weekend College, Online Learning or Study Unlimited in order to accelerate their degree completion plans.

Evening College

Students can complete eighteen (18) certificates or degrees during Evening College. Course and program offerings will be continuously improved and expanded to better meet the needs of busy adults.

Weekend College

Students can complete a certificate, degree or upgrade their skills by attending Weekend College in combination with a variety of other flexible learning options. The program is designed primarily for working adults whose work schedules, family responsibilities or other commitments make attending weekday or evening classes inconvenient or difficult. Courses are offered at the Quad-Cities Campus during a 13 week session in the fall and spring semesters.

Going the Distance Telecourses

Going the Distance courses are also available to Weekend College students. By staying at home and enrolling in Public Television courses, students can earn credit toward an Associate in Liberal Studies or an Associate in Arts degrees. The College offers at least two courses each fall and spring term over WQPT. Those interested in degree completion will want to combine Weekend College and Study Unlimited courses with their telecourse work to develop a program of study that best fits their schedule.

Online Learning

Online courses enable you to customize your learning to your time, your place, and your pace, since the courses are taught primarily via the Internet rather than in the classroom. Online courses are NOT independent study courses. These courses are highly structured and involve frequent interactions with the instructor and with other students enrolled in the courses. Students use the Internet for communicating with the instructor and other students, accessing course materials, conducting research, and submitting assignments.

Study Unlimited

Study Unlimited (SU) provides a student with an alternative to the traditional classroom by offering selected college credit courses. Study Unlimited is of special service to students who are busy adults, have a family, have a changing work schedule, are without regular transportation to the college campus, or have a disability. Study Unlimited courses are not correspondence courses.

Courses taken via Study Unlimited place a great deal of responsibility on the students. Although the course instructor will impose certain time and progress requirements, students work at their own pace and at their own times within these guidelines. Thus, students must be self-disciplined and self-motivated to do well. Students who need the structure of the regular classroom, such as a regular time and place to meet, contact with an instructor and peer group, and continual personal guidance regarding when and how to do coursework, are not candidates for Study Unlimited.

Study Unlimited course formats include instruction by means of videocassettes, audiocassettes, multimedia, and/or printed materials. The College faculty who teach these courses, correct and evaluate all student work, are available for questions and extra help in person, on campus, or by phone.

All course work may be done on campus or, if materials are available, work for some courses may be completed at home. For example, 1/2" VHS videocassettes for selected video
courses and most audio courses can be rented for a user's fee and a return-deposit. However, materials are limited and are available on a first come, first serve basis beginning the Monday before classes begin.

College credit courses generally available are listed below:

- ART 100
- ASTR 101
- BA 160
- BA 220
- BA 230
- BE 106
- BL 201
- BL 202
- BIOL 150
- BIOL 200
- CS 100
- ENG 101
- ENG 102
- ENG 132
- ENG 210
- HEAL 102
- HIST 222
- MUSC 154
- PHIL 103
- PSYC 101
- SOC 101
- TV 212

Registration. Students register for courses in Study Unlimited through regular procedures. SU classes start at the beginning of each semester. Students may enroll in SU classes through the first week of the fall and spring semesters (fifth day of summer session). SU coursework is to be completed and final examination taken by the end of the semester.

To enroll in courses in Study Unlimited, new students must have an ASSET reading score of 43 or above or permission from the course instructor. Returning students should see their advisor to evaluate academic progress prior to taking Study Unlimited courses.

Interactive Television

At both the Quad-Cities and East campuses, students can take a number of courses by means of the Interactive Television system. These courses may originate from either campus or from other sites. Local participating high schools may also receive Interactive Television courses, including Cambridge, Geneseo and Aledo High Schools.

The major benefit to students of Interactive Television is access to an expanded range of courses at convenient locations. Students may take either undergraduate or graduate courses through this system.

Black Hawk College's interactive videoconferencing rooms are equipped to provide live, real-time distance education and/or business and community videoconferencing at its Quad-Cities, Kewanee, and other regional locations. This interactive video system connects with surrounding regional, state, national, and international locations.

Illinois Virtual Campus

Black Hawk College is a partner of the Illinois Virtual Campus (IVC), which provides an online searchable directory of distance education courses and degree programs offered by over 70 colleges and universities. College credit and continuing education and training courses are offered via the Internet and the Student Support Center provides advising, technical, library, bookstore, and testing services for students taking online or Distance Learning courses. Visit the IVC catalog at its Web site at [http://www.ivc.illinois.edu/](http://www.ivc.illinois.edu/).

Minimester

Minimester allows students to use the holiday vacation or time between semesters to earn college credit and accelerate their program of study. A typical three credit hour Minimester class might meet for four hours each day Monday through Friday except on holidays. Minimester classes are published in the Spring schedule and enjoy the same cost structure, financial aid eligibility and transfer equivalency as courses offered in the traditional semester length format.
International Study Programs

Study Abroad Opportunities

Black Hawk College students majoring in business and liberal arts areas may study abroad in a variety of sites. Liberal arts students may study in Austria, Costa Rica, Denmark, France, Germany, Japan, Mexico, Netherlands, Portugal, Russia, Sweden, and Zimbabwe. Business students may study in Australia, Canada, Denmark, Germany, Netherlands, and Sweden. Students may also work abroad for a semester or complete a semester combining both study and work in these countries.

To qualify for study and work abroad opportunities, students need to have completed 30 semester hours with an overall grade point average of 2.75. Each participant needs the recommendation of two Black Hawk College faculty. All BHC policies for students completing coursework provided on-campus also apply to students participating in study abroad programs. Students need to prove health insurance coverage or purchase it prior to departure.

Students reside with host families, where they have morning and evening meals. All accommodations are approved by the international college or university.

Study abroad programs are available each semester, including summers. The deadline for fall semester study abroad programs is April 15; for summer study abroad programs the deadline is March 15; and the deadline for spring semester study abroad programs is November 1.

In addition to completing a full schedule of classes, study abroad students may participate in field trips to historic sites and places of traditional tourist interest.

A study abroad fee is paid for participating in most study abroad programs. Students receiving financial assistance normally may continue that coverage while participating in study abroad programs.

For details concerning study abroad opportunities, please visit the Study Abroad Office on the Quad-Cities Campus or the Director of Educational Services on the East Campus. Details are also available on the Black Hawk College homepage.

International Field Study Programs

Each year, Black Hawk College offers International Field Study Programs. Details for current programs are available in the Study Abroad Office or on the College’s homepage.

International Studies Certificate

The International Studies Certificate provides an opportunity for increased global awareness and the proficient development of a foreign language of choice. To further develop expertise about cultures and languages of other nations, the student completing the international studies certificate is especially encouraged to study abroad.

The certificate requires the successful completion of 20 credit hours from the following courses. The student must successfully complete at least one year of foreign language. The credit hours earned for each course is indicated in parenthesis.

- **ART 285** Study of Asian Art (3)
- **ARCH 203** Intro to Archaeology (3)
- **ECON 270** International Business (3)
- **ENG 217** Black Literature (3)
- **ENG 218** Latin American Literature (3)
- **ENG 219** Eastern Literatures (3)
- **FREN 101** Elementary French I (4)
- **FREN 102** Elementary French II (4)
- **GERM 101** Elementary German I (4)
- **GERM 102** Elementary German II (4)
- **HIST 151** History of Middle East since 1700 (3)
- **HIST 222** Comparative Religions (3)
- **HIST 261** History of Europe to 1815 (3)
- **HIST 262** History of Europe Since 1815 (3)
- **JAPN 101** Elementary Japanese I (5)
- **JAPN 102** Elementary Japanese II (5)
- **MUSC 148** Intro to Nonwestern Music (3)
- **POLS 258** Selected Studies in Political Science (1-3)
- **POLS 262** Intro to Non-European Comparative Government (3)
- **SPAN 101** Elementary Spanish I (4)
- **SPAN 102** Elementary Spanish II (4)
- **SPEC 175** Intercultural Communication (3)

and courses available through Study Abroad Programs.

International Business Curricula

International Business Curricula are detailed on pages 68 and 105.
Intercultural and Community Affairs

Strategies and Objectives of Intercultural and Community Affairs

- Black Hawk College practices inclusion and supports activities to promote understanding and appreciation of culture and subcultures, both nationally and internationally, of the human family.

- Black Hawk College increases enrollment, retention, goal attainment, and/or graduation of minorities and students with special needs.

- Black Hawk College provides leadership and builds effective partnerships to address issues of diversity throughout the community.

The Intercultural and Community Affairs Department serves to promote cultural exploration, intercultural communication, understanding, appreciation, and respect. Its mission is to provide an environment by which cultural differences are recognized, appreciated, and utilized, and one that welcomes and promotes the success and life-long learning of all Black Hawk College students, faculty, staff and community members. The objectives of the department are:

- to serve as an ombudsman for minority students
- to improve retention/recruitment rates among minority students
- to encourage cultural sensitivity among the College community
- to promote a healthy and diverse College climate for our community
- to promote cultural appreciation across the District
- improve intercultural communication
- set standards for college-wide and district-wide intercultural competence

If you are interested in helping with or being a part of any these organizations or activities, please contact one of the following:

Office of Intercultural and Community Affairs
Bldg. #1-Balcony, Quad-Cities Campus, (309) 796-5006
Intercultural Affairs Office - Quad-Cities Campus
Bldg. #1-Balcony, (309) 796-5474
Intercultural Affairs Office - East Campus
Bldg. A, (309) 852-5671, Ext. 6235

Bridges

The Bridges Program is designed to assist students in their transition from GED, high school credit classes, or the workforce to the mainstream of college life. It is open to all students of all cultures who follow the application process and meet the screening criteria:

- First generation college students
- Students of color
- Students who are undecided about attending college or are unsure about their academic abilities
- Students who desire to improve their academic record.
- Students who are college bound and may need additional assistance entering and matriculating through college.

Bridges students are enrolled in up to seven credit hours of college courses. The courses help to build positive self-esteem, motivate, and develop the proper study skills of the participants.

Students will get personal help with financial aid forms and will be introduced to the Discover Program for career exploration.

Intercultural and Community Affairs Newsletter

The Department of Intercultural and Community Affairs publishes a monthly newsletter to keep the College's students, staff and community aware of programming and events. The newsletter also includes events that are taking place in the community that may be of interest to the College community. Community representatives are encouraged to report culturally-based events to be included in the newsletter.
Clubs and Organizations

Brotherhood On Campus (BOC). BOC attempts to unify males on campus. Members explore common concerns and develop an understanding of issues facing brotherhood. The organization has a multicultural membership. It deals specifically with recruiting, retention, and graduation of its members. It also deals with critical issues involving African-American and Hispanic males in the educational system. Through BOC, various activities have been implemented on campus and in the community, such as Read Aloud and Adopt-A-Class programs at elementary schools. It also sponsors Black Hawk College Issues Days, which create an opportunity for students to express their opinions on specific topics designated by the BOC. Students address race issues that help faculty, staff, students and administrators become aware of different viewpoints represented by various cultures.

Sisterhood on Campus (SOC). SOC attempts to unify females on campus. Members explore common concerns and develop an understanding of issues facing sisterhood. The organization has a multicultural membership. It deals specifically with recruiting, retention and graduation of its members. It also deals with critical issues involving women of color in the educational system. The SOC has sponsored a variety of activities including an after school program in which they tutored and assisted with games and activities for elementary school children. They participate in other activities including such as Halloween parties, Christmas parties, and the Martin Luther King celebration. Members of SOC support each other through study groups and circles.

Buddy Mentoring Club (BMC). The BMC is a mentoring program which pairs a new student with a veteran student. The veteran student assists the new student with acclimation in the new college environment. A faculty/staff person or administrator serves as a mentor to both students. The main focus of the organization is to assist students academically and socially at Black Hawk College.

African-American Student Union (AASU). The purpose of the AASU is to promote unity among African-American students and harmony with the student body. It also develops an educational support system for students with special needs. Unity is obtained by promoting the following:

1. Community involvement - mentoring, promotion of Black Pride, and support for youth in the educational system
2. Black history awareness for fellow students and community
3. African-American independence through academic advancements
4. Social activities for Black Hawk College students

The AASU sponsors and support numerous activities including all Black History Month activities. Members also plan and participate in various community and college cultural presentations.

Association of Latin American Students (ALANAA). The primary purpose of ALANAA is to unite all culturally based organizations and students of differing ethnicities and races. ALANAA has a multicultural membership. The ALANAA deals specifically with activities, events and programs that represent the student body. ALANAA researches and develops proposals for submission to the activities committee of the SGA. ALANAA also keeps the calendar of events for BHC clubs to prevent event competition and to promote campus-wide support for all ALANAA sanctioned events.

Bridges Club. The primary purpose of the Bridges Club is to serve as a network opportunity for past and current Bridges Scholarship Program applicants. It attempts to unify Bridges members on campus. Members explore common concerns and develop an understanding of issues facing Bridges students. This club has multicultural membership. The Bridges Club deals specifically with recruitment, retention, and graduation of its membership. The members also do service projects in the community and deal with critical issues involving Bridges students in the educational system.

The Men’s Soccer Club and the Women’s Soccer Club. These clubs serve as an outlet for physical fitness through the sport of soccer for BHC students and the BHC community. They give the opportunity for development of good physical and mental conditioning and provide an environment of competition and friendship. These organizations practice and compete in league play.

The Black Hawk League of Native Americans. The primary purpose is to promote the affiliation of Native Americans of all the different tribes who reside in the community and non-Indian friends into an educational, civic and cultural organization. It intends to promote fellowship among the Native Americans into the college and community life of the Quad Cities, to foster their educational and economic advancement, and to encourage artistic and vocational pursuits. The league also wants to preserve and foster Indian arts, crafts, and cultural value, and to encourage Native Americans and their non-Indian friends to preserve and appreciate the Native American heritage. This is a multicultural organization.
The Voices On Campus. This club serves as an outlet for the artistic voice of the Quad-Cities Campus and the Black Hawk College community. The organization expresses its voice through poetry, storytelling, literature, music, song, and dance.

International Student Association (ISA). The missions of the International Student Association is to provide a friendship group for international and local students, to foster learning about a wide variety of cultures and issues, and to conduct fundraising that benefits both international students and local English as a Second Language students. Membership in the ISA is open to anyone interested in international learning and exchange. Activities include hosting an International Festival every year in April. Call Ext. 5186 for more information or to talk to an advisor.

Cultural Resources and Activities:
- Diversity Training and Resource Center (providing lectures, workshops, seminars, etc., for students, faculty, staff, community, and businesses)
- Book and Video Reference Library (available to students, staff, faculty, and community)
- Women's History Month Trivia Contest
- Mexican-American History Month activities
- Cinco de Mayo
- Kwanzaa
- Black History Month activities
- Dr. Martin Luther King birthday activities
- Culture Fest (East Campus)
- Multicultural Welcome Picnic
- Multicultural Film Festival Series
- Issue Days
- Hero's and Shero's (African-American Men and Women in history)
- Taste of Africa

Scholarship Opportunities

Scholarships are available for the Summer Bridges sessions. Applications are available annually from the Intercultural and Community Affairs Office - Quad-Cities Campus and from high school counselors. Minority Teacher Initiative Quad Cities Scholars Scholarships are also available each semester for students enrolled full or part-time with the following minimum GPA's:
- Commitment to Diversity Scholarship - Martin Luther King Day (2.75 GPA)
- Workforce Diversity Scholarship (2.75 GPA)
- Faculty Internship Award (Employment at BHC and Master's education paid for by the College)
- Intercultural and Community Affairs Achievement Awards (2.50 GPA)

Departmental and college scholarships are available through the Financial Aid Office. Also, business and industries provide scholarship opportunities for students.

College Awards and Recognition

The President of Black Hawk College presents the Presidential Commitment to Diversity Award during commencement. The recipient of the award is nominated by faculty, staff and/or students for his or her dedication to promoting diversity.
Career Program Descriptions

The Career Programs are designed to prepare students with the necessary knowledge and skills to enter a particular occupation.

While some career courses will be accepted for transfer by four-year schools, the primary objective of Career Programs is to prepare the student for immediate employment or for job upgrading. It is important that students consult their advisor regarding the transfer of career course credits.

Students who successfully complete the requirements of their course of study will receive a certificate or an Associate in Applied Science degree.

Career program courses are primarily designed to prepare students for employment, but some courses are also accepted as part of bachelor’s degree programs. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities. Please refer to the graduation requirements identified on page 38. These requirements must be met and take precedence over suggested programs of study if there is a conflict.
Agriculture Curricula

To meet the demands of an evolving agricultural field in which jobs require advanced training, the Agriculture Program at Black Hawk College East Campus offers a variety of career and transfer programs. These programs include study in the areas of Agribusiness Management, Agriculture Mechanics (see page 83), Agriculture Production Technology, Agriculture Transfer (see page 103) Horse Science Technology, Equestrian Science, and Horticulture Science.

Facilities provided include the Agriculture Pavilion at East Campus, the only facility of its kind on a community college campus in Illinois, serves as a laboratory for student learning. A classroom, stalls, wash rack, equipment rooms, and indoor as well as outdoor arenas provide a central focus for all agriculture programs. Located on campus is a greenhouse supporting horticulture and agronomy instruction. In addition, soils, crops, horticulture, and agriculture mechanics laboratories on campus give students the opportunity to learn important technical skills associated with agricultural business and industry.

With its strong emphasis on education for employment preparation, the Agriculture Program offers students opportunities for on-the-job training with agriculturally oriented businesses located within the immediate area, across the state, and throughout the nation. Students receive academic credit for their work and gain valuable information and insight into on-the-job demands.

A top priority of the Agriculture Program is to maintain high quality academic standards. In addition, major emphasis is put on the development of the individual outside the classroom. Students enrolled in the Agriculture Program are invited to become active members of the Agribusiness Club. Social, recreational, professional and leadership development are some of the primary objectives of the group available at local, state and national levels. Graduates of the East Campus agriculture programs are encouraged to continue their involvement through the Agribusiness Club Alumni.

Other activities include judging teams in the areas of livestock, horses, dairy, crops, soils, and horticulture. Students participate on a local, state and national level in agricultural scholastic bowls, job interview competitions in several areas of employment, discussion meets, computer skills contests and public speaking contests.

A cooperative agreement with the adjacent community college districts allows students in those districts to enroll in Black Hawk College East Campus agriculture programs and pay the College in-district tuition rate (see page 17). Additionally, the Horse Science Technology and Equestrian Science programs are approved as statewide programs. This allows any Illinois resident to enroll in the programs and pay the Black Hawk College rate of tuition.

For more information about the Agriculture Program or any of its courses, contact the department chair of Applied Science.
Agribusiness Management

Associate in Applied Science Code 9142
Contact Person: East Campus, Bill Good, Ext. 6274, Rm. A-226

Students completing the Agribusiness Management Program will find a great demand for their skills and services in the ag chemicals, feed, fertilizer, grain, seeds and other agri-related supply and service businesses. Jobs will be in sales, operation and management.

The Agribusiness Management Program offers classroom instruction and laboratory exercises coupled with supervised on-the-job experience to prepare students for gainful employment.

Special program features include: instructors with practical expertise in their areas of specialization; supervised on-the-job experience during both first and second years of the program; minimum of 11 elective hours of coursework, allowing students to specialize in their areas of interest; practical two-week summer session; 10-week fourth semester enabling students to secure full-time employment on or about April 1; and a majority of courses are in agriculture or are agriculture-related.

Credit

FIRST SEMESTER SUGGESTED COURSES
AG 101 Introductory Ag Seminar 1
AG 121 Ag Economics 3
AG 125 Computers in Agriculture 1
AG 131 Soils and Soil Fertility 4
AG 141 Animal Science 4
* AG Electives 1
Communications Elective 3

SECOND SEMESTER SUGGESTED COURSES
AG 102 Ag Work Experience Seminar 1
AG 107 Agribusiness Work Experience 7
AG 122 Farm Management 4
AG 132 Field Crop Science I 1.5
AG 135 Ag Chemicals I 1.5
AG 171 Ag Materials Handling Equipment 2
* AG Electives 1
Mathematics Elective 3

SUMMER SEMESTER SUGGESTED COURSES
AG 133 Field Crop Science II 2
AG 136 Ag Chemicals II 1

THIRD SEMESTER SUGGESTED COURSES
AG 134 Field Crop Science III 0.5
AG 137 Ag Chemicals III 0.5
AG 201 Advanced Ag Work Exp. Seminar 1
AG 207 Adv. Agribusiness Work Exp. 5
AG 211 Ag Salesmanship 3
AG 225 Computer App. in Ag 3
* AG Electives 2

FOURTH SEMESTER SUGGESTED COURSES
AG 202 Advanced Ag Seminar 1
AG 222 Agricultural Marketing 4
AG 223 Ag Marketing 3
* AG Electives 8

Minimum total hours required for degree 72

* A minimum of 12 elective hours are required in the Agribusiness Management Program. Suggested electives include (Fall Semester)AG 138, 142, 148, 214, 238, 244, 248, 272 and 275; (Spring Semester)AG 139, 147, 149, 232, 239, 241, 242, 245, 246, 247, 249, and 276.

Agribusiness Management—
Crop Protection Technology Option

Pending ICCB Approval
Associate in Applied Science Code 9143
Contact Person: East Campus, Bill Good, Ext. 6274, Rm. A-226

Students completing this program will have the technical skills to operate, calibrate, and maintain agriculture chemical application equipment. Operators can earn an annual income of $25,000 to $35,000 per year. Opportunities for growth and advancement within the agriculture business exists for qualified individuals.

The Agribusiness Management Program offers classroom instruction and laboratory exercises coupled with supervised on-the-job experience to prepare students for employment.

Special program features include: instructors with practical expertise in their areas of specialization; supervised on-the-job experience during both first and second years of the program; minimum of 11 elective hours of coursework, allowing students to specialize in their areas of interest; practical two-week summer session; 10-week fourth semester enabling students to secure full-time employment on or about April 1; and a majority of courses are in agriculture or are agriculture-related.

Credit

FALL SEMESTER CREDIT
AG 101 Introductory Ag Seminar 1
AG 121 Ag Economics 3
AG 125 Computers in Agriculture 1
AG 131 Soils and Soil Fertility 4
AG 138 Crop and Soil Management 3
AG 172 CDL Training 2
AG 173 Ag Chemical Equipment Tech I 1
HPE 200 First Aid 2
Communications Elective 3
AG 102  Ag Work Experience Seminar  1
AG 107  Agribusiness Work Experience  7
AG 122  Farm Management  4
AG 132  Field Crop Science I  1.5
AG 135  Ag Chemicals I  1.5
AG 139  Crop and Soil Evaluation II  1
AG 171  Ag Materials Handling Equipment  2
AG 174  Ag Chemical Equipment Tech II  1
Mathematics Elective  3

SUMMER SEMESTER
AG 133  Field Crop Science II  2
AG 136  Ag Chemicals II  1

Second Year

FALL SEMESTER
AG 134  Field Crop Science II  0.5
AG 137  Ag Chemicals III  0.5
AG 173  Ag Chemical Equipment Tech I  1
AG 201  Advanced Ag Work Exp. Seminar  1
AG 207  Adv. Agribusiness Work Exp.  5
AG 211  Ag Salesmanship  3
AG 225  Computer App. in Ag  3
AG Elective  1

SPRING SEMESTER
AG 174  Ag Chemical Equipment Tech II  1
AG 202  Advanced Ag Seminar  1
AG 214  Agriculture Tech & Info Mgmt  3
AG 222  Agricultural Marketing  4
AG 223  Ag Marketing  3
AG Elective  1

Minimum total hours required for degree  72

NOTE: A minimum of two elective hours in agriculture are required in the Agricultural Chemical Applicator Option. Suggested electives include: (Fall Semester) AG 138 Crop & Soil Management, AG 238 Crop and Soil Evaluation II, AG 272 Grain Drying and Handling, AG 275 Field Machinery Operation I; (Spring Semester) AG 139 Crop and Soil Evaluation II, AG 232 Forage Crops, AG 239 Crop and Soil Evaluation IV, AG 276 Field Machinery Operations II.

Agriculture Production Technology

Associate in Applied Science Code 9141
Contact Person: East Campus, Lee Denzer, Ext. 6251, Rm. B-224

Students interested in agriculture production with emphasis on crops and/or livestock should consider the Agriculture Production Technology curriculum. Graduates of this program may become employed as farm operators or assistant managers, herdsmen, swine specialists, equipment operators or general farmhands.

Classroom study and laboratory exercises coupled with supervised on-the-job work-experience to prepare students for gainful employment in agriculture.

Special program features include: instructors with practical expertise in their areas of specialization; supervised on-the-job experience during both first and second years of the program; minimum of 11 elective hours of coursework, allowing students to specialize in their areas of interest; practical two-week summer session; 10-week fourth semester enabling students to begin full-time employment on or about April 1; majority of courses are in agriculture or are agriculture-related.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
AG 101  Introductory Ag Seminar  1
AG 121  Ag Economics  3
AG 131  Soils and Soil Fertility  4
AG 141  Animal Science  4
AG 125  Computers in Agriculture  1
* AG Electives  1
Communications Elective  3

SECOND SEMESTER SUGGESTED COURSES
AG 102  Ag Work Exp. Seminar  1
AG 108  Ag Production Work Exp.  7
AG 122  Farm Management  4
AG 132  Field Crop Science I  1.5
AG 135  Ag Chemicals I  1.5
AG 171  Materials Handling Equipment  2
* AG Electives  1
Mathematics Elective  3

SUMMER SEMESTER SUGGESTED COURSES
AG 133  Field Crop Science II  2
AG 136  Ag Chemicals II  1

THIRD SEMESTER SUGGESTED COURSES
AG 201  Advanced Agricultural Work Experience Seminar  1
AG 208  Advanced Agricultural Production Work Experience  5
AG 275  Field Machinery Operations I  3
AG 134  Field Crop Science III  0.5
AG 137  Ag Chemicals III  0.5
AG 225  Computer Applications in Ag  3
* AG Electives  2

FOURTH SEMESTER SUGGESTED COURSES
AG 202  Advanced Ag Seminar  1
AG 222  Agricultural Marketing  4
AG 223  Ag Marketing  3
* AG Electives  8

Minimum total hours required for degree  72

* A minimum of 12 elective hours are required in the Agricultural Production Technology Program. Suggested electives offered during the Fall semester include: AG 138, 142, 148, 238, 244, 248, and 272. Electives offered during the Spring semester include: AG 139, 147, 149, 232, 239, 241, 242, 245, 246, 247, 249 and 276.
Agriculture Production

Certificate Codes 9541, 9543, 9544
Contact Person: Lee Denzer, East Campus, Ext. 6251, Rm. B-224

Three certificate programs are offered in Agriculture Production. A student with a career interest in beef cattle and swine production may consider one of the following programs. Additional courses may be taken while completing the requirements for a certificate program. Elective coursework beyond the 12-hour certificate requirements available. Elective courses include: AG 141, AG 190 and HORT 191.

Animal Science Certificate Code 9541
FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
AG 141 Animal Science 4
AG 244 Swine Science 3
SECOND SEMESTER SUGGESTED COURSES
AG 245 Beef Science 3
AG 247 Animal Health 2
Minimum total hours required for certificate 12

Beef Production Certificate Code 9543
FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
AG 141 Animal Science 4
AG 246 Meat Animal Evaluation 3
SECOND SEMESTER SUGGESTED COURSES
AG 245 Beef Science 3
AG 247 Animal Health 2
Minimum total hours required for certificate 12

Swine Production Certificate Code 9544
SECOND SEMESTER SUGGESTED COURSES
AG 247 Animal Health 2
Minimum total hours required for certificate 12

Equestrian Science

Associate in Applied Science Code 9096
Contact Person: East Campus, Donna Irvin, Ext. 6266, Rm. A-215

Students completing the Equestrian Science Program will find many career opportunities in all phases of the horse industry. Some of the specific jobs available are stewards, riding instructors, trainers, horse show judges and show personnel.

The Equestrian Science Program offers classroom study and laboratory exercises coupled with supervised on-the-job experience to prepare students for employment or for transfer to a four-year school in order to pursue a bachelor's degree related to horsemanship.

Special program features include: hands-on training of horses on campus each semester; general education courses which will easily transfer to four-year schools; elective courses to expand an individual's area of interest and knowledge; supervised on-the-job experience; and an opportunity to participate in horse judging and evaluation.

Horse Science Technology

Associate in Applied Science Code 9099
Contact Person: East Campus, Jon Wolf, Ext. 6264, Rm. A-234

Students completing the Horse Science Technology Program will find a demand for their skills and services in occupations relating to the raising, breeding and management of horses. Some of the specific jobs available include stable manager, groomer, salesperson in tack store and public relations specialist.

The Horse Science Technology Program offers classroom study and laboratory exercises coupled with supervised on-the-job work experience to prepare students for gainful employment in the horse industry.

Special program features include: supervised on-the-job experience during the first and second year, elective courses to expand an individual's areas of interest and knowledge, 8-week Spring semester on campus, with the balance of
semester on the job; majority of courses in agriculture or are agriculture-related.

<table>
<thead>
<tr>
<th>FIRST SEMESTER SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 101   Introductory Ag Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AG 125   Computers in Agriculture</td>
<td>1</td>
</tr>
<tr>
<td>AG 141   Animal Science OR</td>
<td>4</td>
</tr>
<tr>
<td>AG 285   Animal Science</td>
<td></td>
</tr>
<tr>
<td>EQ 151   Horse Production and Management</td>
<td>4</td>
</tr>
<tr>
<td>EQ 158   Horse Evaluation I</td>
<td>1</td>
</tr>
<tr>
<td>EQ 161   Princ and Methods of Stock Seat Eq.</td>
<td>4</td>
</tr>
<tr>
<td>HPE 200  First Aid</td>
<td>1</td>
</tr>
<tr>
<td>Communications Elective</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
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</thead>
<tbody>
<tr>
<td>AG 102   Ag Work Experience Seminar</td>
</tr>
<tr>
<td>EQ 109   Horse Science Work Experience</td>
</tr>
<tr>
<td>EQ 154   Horse Equipment and Facilities</td>
</tr>
<tr>
<td>EQ 159   Horse Evaluation II</td>
</tr>
<tr>
<td>AG 232   Forage Crops</td>
</tr>
<tr>
<td>Mathematics Elective</td>
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</tbody>
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<table>
<thead>
<tr>
<th>THIRD SEMESTER SUGGESTED COURSES</th>
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</thead>
<tbody>
<tr>
<td>AG 121   Ag Economics OR</td>
</tr>
<tr>
<td>AG 281   Ag Economics</td>
</tr>
<tr>
<td>AG 142   Animal Nutrition</td>
</tr>
<tr>
<td>EQ 253   Horse Health Care</td>
</tr>
<tr>
<td>EQ 254   Stable Management</td>
</tr>
<tr>
<td>*AG Electives</td>
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</tbody>
</table>

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<tr>
<th>FOURTH SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>AG 201   Advanced Agricultural Work Experience Seminar</td>
</tr>
<tr>
<td>EQ 209   Advanced Horse Science Work Experience</td>
</tr>
<tr>
<td>AG 211   Ag Salesmanship</td>
</tr>
<tr>
<td>AG 225   Computer Applications in Ag</td>
</tr>
<tr>
<td>*EQ/AG Electives</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 70

* A minimum of nine elective hours are required in the Horse Science Technology Program. Suggested electives include: (Fall Semester) AG 131, 258, 262 or 267. (Spring Semester) AG 122, 167, 214, 222, 259, 263, 264 or 266.

**Horse Science Technology Certificate**

*Certificate Code 9599

**Contact Person:** East Campus, Jon Wolf, Ext. 6264, Rm. A-234

Students who are preparing for the increasing job opportunities in occupations relating to the raising, breeding and management of horses and for directly related businesses, should consider this curriculum. Some of the specific jobs available include stable manager, groomer, salesperson in a tack store and public relations specialist.

<table>
<thead>
<tr>
<th>FIRST SEMESTER SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ 151   Horse Production and Mgmt.</td>
<td>4</td>
</tr>
<tr>
<td>EQ 161   Prin. and Meth. of Stock Seat Eq.</td>
<td>4</td>
</tr>
<tr>
<td>AG 141   Animal Science</td>
<td>4</td>
</tr>
<tr>
<td>AG 142   Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>EQ 253   Horse Health Care</td>
<td>3</td>
</tr>
<tr>
<td>EQ 254   Stable Management</td>
<td>4</td>
</tr>
<tr>
<td>*EQ/AG Electives</td>
<td>1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 232   Forage Crops</td>
</tr>
<tr>
<td>EQ 154   Horse Equip. and Facilities</td>
</tr>
<tr>
<td>*EQ/AG Electives</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 30

* A minimum of two elective hours are required for the Horse Science Technology Certificate. Suggested electives include: (Fall Semester) AG 125, EQ 158, AG 224, AG 225 (Spring Semester) AG 102, EQ 109, EQ 159, AG 225.
Business Curricula

Business Programs offer a start to your business career, improve your chances for promotion, or build a new career path.

The Accounting Specialist program is designed to qualify graduates for employment as junior accountants or for middle-management jobs in accounting firms, banks, and industrial firms. Jobs are located in the public and civil service areas as well as in the private sector.

The Business Management and Marketing program prepares students for careers in managing various business enterprises. The curriculum provides a central core of courses from which special interest areas may be developed.

The Financial Services Management degree qualifies the graduate for building a career in the banking industry or in many other financial institutions, e.g., credit unions, loan companies, and insurance corporations. This program also serves as in-service training and professional development for those presently employed by banks, savings and loan associations, credit unions, and other financial institutions. The program is offered in cooperation with the American Institute of Banking and local credit unions and insurance companies.

The International Trade curriculum prepares students for employment in American businesses developing or enlarging their import/export markets. It also helps those currently employed in such businesses to expand their knowledge of international markets and world trade.

Students interested in pursuing a four-year bachelor's degree in Accounting, Business Administration, Economics, Finance, Management, or Marketing should see the "Accounting-Transfer" and "Business-Transfer" curricula in the Transfer Programs section of this catalog on pages 101 and 104.

The Computer Information Processing (CIP) Programs provide the opportunity to prepare for employment in the fast growing field of information processing. Job opportunities are good and are predicted to continue to grow as the number of computer installations increase and the demand for trained personnel increases accordingly. The Computer Information Processing programs are designed to prepare the student for entry-level positions in the information processing field. A two-year degree program as well as a one-year certificate program are offered.

Programming students concentrate their study in the following programming languages: BASIC, Visual Basic, COBOL, RPG, C, and C++. These languages, coupled with courses in computer operations, business, accounting, database management, mathematics, and communications give the background necessary to compete in today's job market.

All students in CIP programs at the Quad-Cities Campus are encouraged to meet with a full-time CIP faculty member for advisement. East Campus students should contact the appropriate advisor for the particular program prior to class enrollment.

The Business Information Technology (BIT) programs are either one or two years in length. The two-year programs lead to an Associate in Science degree in Administrative Assistanting, Legal Office Professional, Business Information Technology, or Health Information Management. The one-year programs lead to a certificate in Business Information Technology, Information Processor, Information Technology Specialist, Medical Coding Specialist, and Medical Billing Specialist. Medical Transcriptionist is a three semester certificate program.

After evaluation of previous education, experience, and future goals, a program will be designed for each student. High school articulation credit may be granted.

Individuals planning to re-enter the work force after an absence and who now wish to upgrade their knowledge and skills are welcomed and encouraged to contact an instructor in the Business Information Technology programs for advice and assistance.

All students in Business Information Technology programs at the Quad-Cities Campus are encouraged to meet with a faculty advisor from the BIT Department. East Campus students should contact the appropriate advisor for the particular program prior to class enrollment.

An assessment and placement program has been established for business education courses to provide information that will aid in placing students.

Articulation

There are many business/computer courses which will articulate (transfer) from high school to college credit. See an advisor for more information.
### Accounting Clerk

**Certificate Code 5731**  
**Contact Person:** QC Campus: Mary Kline, Ext. 5321, Rm. 2-252; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

The Accounting Clerk curriculum is offered by the Department of Business and Information Technology (QC) and the Department of Business and Technology (EC).

This program is designed to prepare the graduate for employment in small to medium-sized businesses, performing jobs ranging from general office duties to basic accounting tasks.

**FIRST SEMESTER SUGGESTED COURSES**  
**CREDIT HOURS**
- BA 110 Introduction to Business 3
- BA 160 Business Math I 3
- BA 170 Fundamentals of Accounting I 3
- BA 171 Fundamentals of Accounting Lab I 1
- BE 145A Information Processing I OR
- BE 145B Information Processing II
- COMM 105 Essentials of English 3
- CIP 230 Spreadsheet Analysis 3

**SECOND SEMESTER SUGGESTED COURSES**
- BA 180 Fundamentals of Accounting II 3
- BA 181 Fundamentals of Accounting Lab II 1
- BA 220 Business Math II 3
- BA 266 Business Policy 3
- BA 290 Accounting Applications I 2
- BE 180 Business Communications 4
- ACCT 120 Computerized Accounting 3

Minimum total hours required for certificate 35

- Students enrolling in BE 180 must have a score of 37 or higher on the Writing Skills portion of the ASSET test or have taken COMM 105 as a prerequisite.
- Students enrolling in BA 160 must have a score of 37 or higher on the Numerical Skills portion of the ASSET test or have taken MATH 103 or MATH 080 as a prerequisite.

### Accounting Specialist

**Associate in Applied Science Code 5165**  
**Contact Person:** QC Campus: Mary Kline, Ext. 5321, Rm. 2-252; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

The program is designed to develop an understanding of, and skills in, the principles of accounting as related to practical use in business. A strong emphasis is placed on computer accounting skills. Accounting skills are developed through courses in basic, intermediate, cost, managerial, and tax accounting. Students get hands-on experience through several computer lab simulations and practice courses. Students will also work at an actual job site for direct hands-on experience. Additional course work in business law, finance, business operations, computer information systems, business mathematics, and communications provides related knowledge necessary for the accountant.

**FIRST SEMESTER SUGGESTED COURSES**  
**CREDIT HOURS**
- BA 110 Introduction to Business 3
- BA 160 Business Math I 3
- BA 170 Fundamentals of Accounting I 3
- BA 171 Fundamentals of Accounting Lab I 1
- BE 145A Information Processing I OR
- BE 145B Information Processing II
- COMM 105 Essentials of English 3
- CIP 230 Spreadsheet Analysis 3

**SECOND SEMESTER SUGGESTED COURSES**
- BA 180 Fundamentals of Accounting II 3
- BA 181 Fundamentals of Accounting Lab II 1
- BA 220 Business Math II 3
- BA 266 Business Policy 3
- BA 290 Accounting Applications I 2
- BE 180 Business Communications 4
- BL 202 Business Law II 3
- SPEC 101 Principles of Speech Communication 3

**THIRD SEMESTER SUGGESTED COURSES**
- ACCT 102 Managerial Accounting 3
- ACCT 104 Managerial Accounting Lab 1
- ACCT 209 Intermediate Accounting I 3
- ACCT 250 Federal Income Tax I 3
- BL 202 Business Law II 3
- SPEC 101 Principles of Speech Communication 3

**FOURTH SEMESTER SUGGESTED COURSES**
- ACCT 120 Computerized Accounting 3
- ACCT 201 Accounting Seminar I 1
- ACCT 205 Principles of Cost Accounting 3
- ACCT 210 Intermediate Accounting II 3
- ACCT 251 Federal Income Tax II 3
- BE 263 Accounting Specialist Internship and/or 3
- BA 264 Internship II 3
- BA 291 Accounting Application II 2

Minimum total hours required for degree 67

- Students enrolling in BE 180 must have a score of 37 or higher on the Writing Skills portion of the ASSET test or have taken COMM 105 as a prerequisite.
- Students enrolling in BA 160 must have a score of 37 or higher on the Numerical Skills portion of the ASSET test or have taken MATH 103 or MATH 080 as a prerequisite.
- Speech 101 may be substituted with permission of advisor.
- Students enrolling in Internship courses must have prior approval of the coordinator.
**Administrative Assisting**

*Associate in Applied Science Code 5068*

*Contact Person: Quad-Cities Campus, Amy Levins-Smith, Ext. 5329, Rm. 1-366; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246*

This degree is offered only at the Quad-Cities Campus.

Administrative Assisting students acquire proficiency in working with current MS Windows software applications, computerized keyboarding, machine transcription, business correspondence, desk-top publishing, records management, data entry, business math and accounting, time and project management, electronic office procedures, editing and proofreading, and office management.

Because these graduates develop strong organizational skills and human relations skills, work opportunities exist for these professional specialists in a variety of offices: education, insurance, manufacturing, banks, government, engineering, and medical. Students are given the opportunity to develop team building and collaborative work techniques through many group project assignments. Students completing this two-year degree complete a one-semester internship. This provides them with work experience in the community.

Students are also invited to network with the members of the International Association of Administrative Professionals by attending or joining a student association sponsored by the local chapter of this organization. With these opportunities in place, graduates are successful in finding employment with this degree.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 100</td>
<td>Work Environment Orientation</td>
<td>2</td>
</tr>
<tr>
<td>BE 142</td>
<td>Computerized Keyboarding II</td>
<td>3</td>
</tr>
<tr>
<td>BE 144</td>
<td>Concepts of Information Processing</td>
<td>3</td>
</tr>
<tr>
<td>BE 145A,B,C</td>
<td>Information Processing I, II, III Word OR</td>
<td>3</td>
</tr>
<tr>
<td>BE 145</td>
<td>Information Processing</td>
<td></td>
</tr>
<tr>
<td>COMM 105</td>
<td>Essentials of English</td>
<td>3</td>
</tr>
<tr>
<td>BE 106</td>
<td>Records Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BA 160</td>
<td>Business Math I</td>
<td>3</td>
</tr>
<tr>
<td>BE 122</td>
<td>Administrative Support Systems</td>
<td>3</td>
</tr>
<tr>
<td>BE 160</td>
<td>Machine Transcription</td>
<td>3</td>
</tr>
<tr>
<td>BE 180</td>
<td>Business Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIP 230</td>
<td>Spreadsheet Analysis (Excel)</td>
<td>3</td>
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**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BE 248</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>BA 170</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BE 170</td>
<td>Beginning Web Page Development</td>
<td>3</td>
</tr>
<tr>
<td>BE 264</td>
<td>Introduction to Data Base Management</td>
<td>3</td>
</tr>
<tr>
<td>BE 110</td>
<td>Data Entry Applications</td>
<td>2</td>
</tr>
<tr>
<td>BE 163</td>
<td>Presentation Graphics (PowerPoint)</td>
<td>1</td>
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**FOURTH SEMESTER SUGGESTED COURSES**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BE 260</td>
<td>Office Management (Spring only)</td>
<td>3</td>
</tr>
<tr>
<td>BE 247</td>
<td>Advanced Information Processing (Spring only)</td>
<td>3</td>
</tr>
<tr>
<td>BE 243</td>
<td>Computerized Keyboarding III (Spring only)</td>
<td>3</td>
</tr>
<tr>
<td>BE 261</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BE 265</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>SPEC 114</td>
<td>Interpersonal Communications OR</td>
<td>3</td>
</tr>
<tr>
<td>SPEC 175</td>
<td>Intercultural Communications</td>
<td></td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 64

**AS/400 Programmer Certificate**

*Certificate Code: 5748*

*Contact Persons: QC Campus, Debbie Collins, Ext. 5316, Rm. 1-352; East Campus, Jodee Werkheiser, Ext. 6271, Rm. 2-114*

This certificate is offered only at the Quad-Cities Campus.

Students taking these courses receive training in the fundamentals of business computer information processing. The classes will provide a background in business accounting, and skills on the computer languages of Visual Basic, COBOL, and RPG 400. Students will use microcomputers and the IBM AS/400 computer throughout the curriculum.

Graduates of this program may enter the business computer information processing field as trainees. They may also use the skills acquired in order to enter other career fields where knowledge of programming is desirable or required.

Prerequisite to program: high school keyboarding, BE 141 or equivalent.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>CIP 101</td>
<td>Introduction to Programming Logic</td>
<td>4</td>
</tr>
<tr>
<td>CIP 104</td>
<td>Introduction to Programming with BASIC</td>
<td>3</td>
</tr>
<tr>
<td>CIP 107</td>
<td>AS/400 Operations</td>
<td>2</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIP 132</td>
<td>Introduction to COBOL Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIP 207</td>
<td>AS/400 Programming</td>
<td>2</td>
</tr>
<tr>
<td>BA 170/171</td>
<td>Fundamentals of Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>CIP 226</td>
<td>Database Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIP 222</td>
<td>RPGII/RPGIII/RGP400 Programming</td>
<td>5</td>
</tr>
<tr>
<td>CIP 232</td>
<td>Advanced COBOL Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for Certificate 34

**Broadcasting**

*Associate in Applied Science Code 5256*

*Contact Persons: QC Campus, Dolores Sierra, Ext. 5367, Rm. 3-373*

The Broadcasting Associate in Applied Science degree program is provided by the Communication and Fine Arts Department.

Students taking the recommended courses will learn the basic skills of running switchers, audio boards, cameras, and basic direction in TV studios. The broadcast internship is specifically designed to provide students with on-the-job experience in the College’s TV studio and in area broadcast facilities. The skills of writing and speaking are emphasized because these are the tools of the broadcast industry.

Students who successfully complete this program may enter employment in TV production. Employment is available in broadcast stations, industrial TV production facilities, hospital production facilities, and advertising agencies.
Those interested in a four-year bachelor's degree in broadcasting should see the Broadcasting curriculum in the Transfer Programs section of this catalog on page 105.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
ENG 101 Composition I OR 3
COMM 100 Communication Skills 3
SPEC 101 Principles of Speech Communications 3
THEA 101 Theatre Practicum 1
THEA 202 Stagecraft and Lighting 3
TV 220 Introduction to Television 4
TV 112 Computer Literacy for TV 2

SECOND SEMESTER SUGGESTED COURSES
BE 166 Web Page Development 1
SPEC 175 Intercultural Communications 3
SPEC 120 Performance of Literature 3
TV 200 TV Work Experience 2
TV 221 TV Production and Direction 4
TV 260 Broadcast Perspectives 3

THIRD SEMESTER SUGGESTED COURSES
BA 160 Business Math I 3
CS 100 I Introduction to Computers 3
SPEC 111 Business and Professional Communications 3
TV 200 TV Work Experience 2
TV 212 History and Appreciation of Motion Picture 3
TV 215 Broadcast Writing 3

FOURTH SEMESTER SUGGESTED COURSES
JOUR 221 Introduction to Mass Communications 3
PHYS 140 Practical Physics 3
TV 160 Introduction to Radio Broadcasting 4
TV 200 TV Work Experience 2

Elective 3

Minimum total hours required for degree 64

Speech 114 Interpersonal Communications (recommended)

Business Information Technology

Certificate Code 5668
Contact Persons: Quad-Cities Campus, Carole Podlashes, Ext. 5322, Rm. 1-360; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

This degree is offered only at the Quad-Cities Campus.

Students acquire proficiency working with computer technology and managing business information processing needs. The student in this program combines business application knowledge to computer processes by attaining proficiency with current MS Windows software applications, Internet and Web Page work, business correspondence, presentation graphics, database management, microcomputer hardware, basic computer networks, desktop publishing, and office management.

Students complete a one-semester internship before graduation. Graduates will be qualified for careers such as: software trainers, technical support, software installers and maintenance, PC sales support staff; PC operators using current software applications, desktop publishing designer, technical systems analysts, and system troubleshooters.

Today's need for a broad knowledge of computer technology in the business sector assure these students a variety of employment opportunities.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
BE 100 Work Environment Orientation 2
BE 141 Computerized Keyboarding I 3
BE 144 Concepts of Information Processing 3
BE 145 A,B,C Information Processing Word OR 3
BE 145 Information Processing 3
COMM 105 Essentials of English 3

SECOND SEMESTER SUGGESTED COURSES
BE 142 Computerized Keyboarding II 3
BE 180 Business Communications 4
BA 160 Business Math I 3
CIP 230 Spreadsheet Analysis 3
COER 116 Microcomputer Hardware 3

THIRD SEMESTER SUGGESTED COURSES
BE 163 Presentation Graphics (PowerPoint) 1
BE 170 Beginning Web Page Development 3
BE 248 Desktop Publishing 3
BE 264 Introduction to Database Management 3
BA 110 Introduction to Business 3
SPEC 114 Interpersonal Communication OR 3
SPEC 175 Intercultural Communications 3

FOURTH SEMESTER SUGGESTED COURSES
BE 171 Web Software Development Tools 3
BE 247 Advanced Information Processing (Spring only) 3
BE 260 Office Management (Spring only) 3
BE 261 Seminar 1
BE 265 Internship 3
NETW 120 Basic Computer Networks 3

Minimum total hours required for degree 62
**Second Semester Suggested Courses**

- **BE 110** Data Entry Applications 2
- **BE 142** Computerized Keyboarding II 3
- **BE 163** Presentation Graphics 1
- **BE 180** Business Communications 4
- **BE 264** Intro to Database Management 3
- **CIP 230** Spreadsheet Analysis (Excel) 3

Minimum total hours required for certificate 33

*Students should look at Assessment and Orientation on page 27.

**Business Management and Marketing**

*Associate in Applied Science Code 5035*

*Contact Person: QC Campus, Acie Earl, Ext. 5267, Rm. 2-255; Gwen Johnson, Ext. 5268, Rm. 2-254; East Campus, Paula Loft, Ext. 6206, Rm. A-246*

Success in a business career in the 21st Century will require preparation in core subjects and at least one specialty. The following curriculum in Business Management and Marketing is designed to give graduates the knowledge, skills and attitudes to build careers. In this program, students learn management skills, accounting procedures, financial management techniques, and skills to market products and/or services. They also gain general knowledge of business law, economics, and computer skills.

Listed below are the core subjects every Business Management student must complete. Each student can then also select three business electives that meet his/her special needs or interests.

**First Semester Suggested Courses**

- **BA 110** Introduction to Business 3
- **BA 160** Business Math I 3
- **BL 201** Business Law I 3
- **CS 100** Introduction to Computers 3
- **SPEC 111** Business and Professional Communications 3
- **Business Elective** 3

**Second Semester Suggested Courses**

- **BA 111** Business Relations I 1
- **BA 170** Fundamentals of Accounting I (EC ACCT 101) 3
- **BA 171** Fundamentals of Accounting Lab I (EC ACCT 103) 1
- **BA 220** Business Math II 3
- **BA 270** Introduction to International Business 3
- **BE 180** Business Communications 4
- **ECON 221** Principles of Macro Economics OR 3
- **ECON 222** Principles of Micro Economics 3

**Third Semester Suggested Courses**

- **BA 112** Business Relations II 1
- **BA 230** Principles of Marketing 3
- **BA 240** Principles of Management 3
- **BA 260** Business Financial Management I 3
- **Business Elective** 3
- **Business Elective** 3

**Fourth Semester Suggested Courses**

- **BA 113** Business Relations III 1
- **BA 236** Principles of Advertising 3
- **BA 238** Principles of Salesmanship 3
- **BA 250** Human Resources Management 3
- **Internship BA 247 or BA 140 or BA 276** 3
- **Internship Seminar BA 249 or BA 145 or BA 278** 1

**Minimum total hours required** 69

**Business Electives (12 credits needed)**

- Financial Management Specialty Courses
  - **BA 180** Fundamentals of Accounting II 3
  - **BA 181** Fundamentals of Accounting Lab II 1
  - **BA 210** Financial Institutions and Markets 3
  - **BA 262** Principles of Insurance 3
  - **BL 202** Business Law II 3
  - **ECON 150** Consumer Economics 3

- Human Resource Management Specialty Courses
  - **BA 262** Principles of Insurance 3
  - **ECON 150** Consumer Economics 3
  - **BA 252** Pay and Benefits Administration 3
  - **BA 242** Principles of Supervision 3
  - **BA 243** Developing Team Skills 3
  - **BA 244** Women in Management 3
  - **SPEC 175** Intercultural Communication 3

- International Business Specialty Courses
  - **BA 272** International Marketing 3
  - **BA 274** The Global Economy 3
  - **BA 282** Documentation for International Business 2
  - **SPEC 175** Intercultural Communication 3

**Computer Information Programmer**

*Associate in Applied Science Code 5244*

*Contact Persons: Quad-Cities Campus, Debbie Collins, Ext. 5316, Rm. 1-352; East Campus, Jodee Werkheiser, Ext. 6271, Rm. 2-114*

This degree is offered only at the Quad-Cities Campus.

Students take courses which prepare them to work with computers in business. They will write, debug, run and update programs using the following programming languages: COBOL, RPG400, Visual Basic, and Java and scripting languages for Web. The computer programming applications will cover such areas as databases, payroll, inventory control, accounting, and personnel. In addition to these technical skill courses, classes in networking, accounting, business, math, communications, and computer operations are also part of the curriculum. On-the-job experience is provided through a field project with an employer in the business community.

Graduates of this curriculum will receive an Associate in Applied Science degree, and may enter the computer information processing field as programmers, programmer analysts, technical support specialists, or programmer/operators.
Prerequisite to program: high school keyboarding, BE 141 or equivalent.

FIRST SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CS 100</td>
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<td>CIP 101</td>
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<tr>
<td>CIP 104</td>
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SECOND SEMESTER SUGGESTED COURSES

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<td>CIP 226</td>
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SUMMER SUGGESTED COURSES

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THIRD SEMESTER SUGGESTED COURSES

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<td>CIP 232</td>
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FOURTH SEMESTER SUGGESTED COURSES

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<td>CIP 250</td>
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<td>ENG 132</td>
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Minimum total hours required for degree: 68

Suggested Electives:

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<tbody>
<tr>
<td>BA 110</td>
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<tr>
<td>BA 180</td>
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</table>

Financial Services Management

Associate in Applied Science Code 5099

Contact Person: QC Campus, Gary Drew, Ext. 5249, Rm. 2-258

The Financial Services Management program is designed to provide the student with an understanding of the business environment, skills in finance, and specialized working knowledge of financial systems, procedures and markets.

The program has been developed with the cooperation of Quad-Cities area financial institutions and offerings are modified and changed to fit the needs of the local community. Programs can be individualized so that both students with little or no financial background as well as people currently employed in the field can be served.

Individuals graduating from this program with a degree can seek employment as tellers, customer service representatives, or as management trainees in firms within the financial industry. Individuals graduating from this program with a degree can seek entry-level positions in all kinds of financial institutions, e.g., accounting offices, banks, credit unions, real estate offices or savings and loan associations.

Individuals receiving a Banking and Finance certificate can seek employment as tellers, customer service representatives, or as management trainees in firms within the financial industry.

Students interested in a four-year bachelor's degree in finance or other business administration related areas should see the “Business-Transfer” curriculum in the Transfer Programs section of this catalog on page 105.

FIRST SEMESTER SUGGESTED COURSES

<table>
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<th>Credit Hours</th>
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SECOND SEMESTER SUGGESTED COURSES

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FOURTH SEMESTER SUGGESTED COURSES

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<td>BL 201</td>
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<td>BA 250</td>
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<td>BA 252</td>
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<td>SPEC 111</td>
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Minimum total hours required for degree: 66

OPTIONAL BUT HIGHLY RECOMMENDED

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<td>BA 269</td>
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</table>

Banking and Finance Certificate

Certificate Code 5595

Contact Person: QC Campus, Gary Drew, Ext. 5249, Rm. 2-258

This certificate is offered only at the Quad-Cities Campus.

FIRST SEMESTER SUGGESTED COURSES

<table>
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<td>BA 160</td>
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<td>BA 170</td>
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<tr>
<td>BA 171</td>
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<tr>
<td>BL 202</td>
<td>3</td>
</tr>
<tr>
<td>COMM 105</td>
<td>3</td>
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</tbody>
</table>
SECOND SEMESTER SUGGESTED COURSES
BA 111 Business Relations I 1
BA 112 Business Relations II 1
CS 100 Introduction to Computers 3
ECON 150 Consumer Economics 3
SPEC 111 Business and Professional Communications 3
*BA Elective 3

Minimum total hours required for certificate 30

*BA Electives:
BA 230 Principles of Marketing 3
BA 242 Principles of Supervision 3
BA 250 Human Resource Management 3
BA 260 Financial Management 3

Health Information Management
Associate in Applied Science Code 5092
Contact Persons: QC Campus, Betsey Morthland, Ext. 5285, Rm. 1-366

Check with an adviser about the possible availability of certain curricula at the East Campus. Completion of the degree is currently available only at the Quad-Cities Campus.

Health information technology is one of the 20 fastest growing occupations in the U.S. As a medical billing and coding professional, you stand at the crossroads of health care and technology and make an important contribution to the delivery of quality health care.

The curriculum for this associate’s degree includes coursework in all three areas of medical transcription, billing, and coding. A student with a certificate in one of the above areas may transfer all the coursework toward this Health Information Management (HIM) degree.

The HIM professional is a medical language specialist who interprets and transcribes dictation by physicians and other health care professionals and works with the health care team. This team of professionals protect patient and client information in accordance with the HIPPA regulations.

The HIM professional has a thorough knowledge of medical office procedures including health insurance filing, coding, and regulations. The graduate is prepared to use health information to document patient care and facilitate delivery of health care services. The student will be aware of all standards and requirements that apply to the medical record, as well as the legal significance of the patient file.

As a skilled medical information professional, one is an expert on patient data that doctors, nurses, and other providers rely on to perform their jobs – a needed link in the extended health care team.

With hands-on skill classes of medical transcription and medical coding, immersing one’s self in beginning medical terminology to advanced terminology to pharmacology terminology, the student attains the education necessary to work well on the job. The HIM internship provides a mentor who will guide the on-the-job learning that is necessary. Hospitals, clinics, medical facilities, insurance offices, physician’s office teams are just a few places that these internships can be attained.

College certificates in physician-based medical coding, hospital-based medical coding, health insurance billing, and clinical trials research are being offered at more and more colleges. Nationwide-accepted certifications for coding, transcribing, and billing are offered through the American Academy of Professional Coders (AAPC), Certified Professional Coder’s (CPC-H) board exam, or the American Health Information Management Association’s (CCS) board exam.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
BE 100 Work Environment Orientation 2
BE 141 Computerized Keyboarding I 3
BE 145 A&B Information Processing 2
BIOL 150 Medical Terminology 3
PN 110 Basic Anatomy & Physiology 3
COMM 105 Essentials of English 3

SECOND SEMESTER SUGGESTED COURSES
BE 148 Beginning Medical Transcription 4
BE 156 Introduction to Health Insurance 3
BE 200 Advanced Medical Terminology 3
BE 251 Medical Office Procedures 3
BE 255 Medical Manager 3

THIRD SEMESTER SUGGESTED COURSES
BA 170 Fundamentals of Accounting 3
BA 171 Fundamentals of Accounting Lab 1
BE 250 Advanced Medical Transcription 4
BE 252 Pharmacology Terminology 3
BE 254 Law, Liability, and Medical Ethics 3
BE 257 Procedure and Diagnosis Coding I 3

FOURTH SEMESTER SUGGESTED COURSES
BE 180 Business Communications 4
BE 249 Management of Health Information 3
BE 258 Procedure and Diagnosis Coding II 3
BE 261 Seminar 1
BE 265 Internship 3
BE 299 Independent Study 1

Minimum total hours required for certificate 64

Information Processor
Certificate Code 5769
Contact Person: Quad-Cities Campus, Amy Levins-Smith, Ext. 5329, Rm. 1-366; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246.

This certificate is offered only at the Quad-Cities Campus.

Information processing students develop strong keyboarding skills. Potential students should like to process documents on the computer. Students acquire excellent communication and proofreading skills. The curriculum includes machine transcription, records management, data entry, and the current MS Windows software applications for spreadsheet development and word processing. In the classroom, they will
have many opportunities for working with teams, which is consistent with today's business environment.

Graduates will be qualified to work in a variety of information processing positions. They will have knowledge of the latest technology and software applications employed in offices. Good job opportunities are available for people trained in information processing.

**FIRST SEMESTER SUGGESTED COURSES**  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>BE 100</td>
<td>Work Environment Orientation</td>
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<tr>
<td>BE 106</td>
<td>Records Management</td>
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</tr>
<tr>
<td>* BE 142</td>
<td>Computerized Keyboarding II</td>
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<tr>
<td>BE 145 A, B &amp; C</td>
<td>Information Processing Word</td>
<td>3</td>
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<tr>
<td>BA 160</td>
<td>Business Math I</td>
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</tr>
<tr>
<td>COMM 105</td>
<td>Essentials of English</td>
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**SECOND SEMESTER SUGGESTED COURSES**  
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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BE 110</td>
<td>Data Entry Applications</td>
<td>2</td>
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<tr>
<td>BE 160</td>
<td>Machine Transcription</td>
<td>3</td>
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<tr>
<td>* BE 180</td>
<td>Business Communications</td>
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<tr>
<td>BE 144</td>
<td>Concepts of Information Processing</td>
<td>3</td>
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<tr>
<td>BE 248</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CIP 230</td>
<td>Spreadsheet Analysis (Excel)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate: 35

* Students should look at the Assessment and Orientation on page 27.

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**Information Technology Specialist Certificate**

**Certificate Code: 5646**

**Contact Persons:** East Campus, Wendy Feldner, Ext. 6228, Rm. A-246; Quad-Cities Campus, Carole Podlashes, Ext. 5322, Rm. 1-360

This certificate is offered only on the East Campus.

The course work required for the Information Technology Specialist Certificate prepares students to collect, organize, input, format, and distribute information using computer technology found in a variety of office settings.

Certificate completers are qualified to process all forms of business information and to operate a variety of computer applications including the latest versions of word processing, database, spreadsheet, presentation, and electronic mail software. They are prepared to work as office support personnel in any business environment.

**FIRST SEMESTER SUGGESTED COURSES**  
<table>
<thead>
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<th>Course Code</th>
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<td>BE 106</td>
<td>Records Management</td>
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<tr>
<td>BE 141</td>
<td>Computerized Keyboarding I</td>
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<td>BE 147</td>
<td>Intro to Microsoft Office</td>
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<tr>
<td>BE 161</td>
<td>Introduction to Windows</td>
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<tr>
<td>BE 165</td>
<td>Internet</td>
<td>1</td>
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<tr>
<td>BE 166</td>
<td>Web Page Development</td>
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<tr>
<td>COMM 105</td>
<td>Essentials of English</td>
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**SECOND SEMESTER SUGGESTED COURSES**  
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<td>BE 101</td>
<td>Office Accounting</td>
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<tr>
<td>BE 142</td>
<td>Computerized Keyboarding II</td>
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<tr>
<td>BE 180</td>
<td>Business Communications</td>
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</tbody>
</table>

Minimum total hours required for certificate: 35

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**International Trade**

**Certificate Code: 5531**

**Contact Person:** QC Campus, Marty Hanson, Ext. 5142, Rm. 1-LRC

The International Trade curriculum is designed for those who want a career in importing and exporting functions throughout business and industry, and also for those who are currently employed in the field but need to improve their skills and knowledge for better job performance or promotability. Those already having a degree in another discipline may use this program to expand their existing capabilities or to enter a new career.

International trade is becoming increasingly important in the United States and the world. This growth requires the availability of well trained people to carry on the business of importing and exporting and related activities.

**FIRST SEMESTER SUGGESTED COURSES**  
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<td>BA 272</td>
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<td>ECON 270</td>
<td>Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
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**SECOND SEMESTER SUGGESTED COURSES**  
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<td>BA 278</td>
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<td>BA 276</td>
<td>International Internship</td>
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<td>GEOG 105</td>
<td>Introduction to Regional Geography</td>
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<td>SPEC 175</td>
<td>Intercultural Communication</td>
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<td>BA 280</td>
<td>Introduction to E-Commerce</td>
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<tr>
<td>BA 230</td>
<td>Principles of Marketing</td>
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</table>

Minimum total hours required for certificate: 31

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**Lead Employee**

**Certificate Code: 5636**

**Contact Person:** QC Campus, Acie Earl, Ext. 5267, Rm. 2-255

Students who enroll in the Lead Employee Certificate program will pursue a one-year course of study designed to give students a basic understanding of several business topics, including accounting, computer skills, human relations, and law.

Students interested in additional educational opportunities will find that the courses required for the Lead Employee Certificate also apply to the Team Leader Certificate.

**FIRST SEMESTER SUGGESTED COURSES**  
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<td>Introduction to Business</td>
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</tr>
<tr>
<td>BA 160</td>
<td>Math as Applied to Business</td>
<td>3</td>
</tr>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ECON 150</td>
<td>Consumer Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>
SECOND SEMESTER SUGGESTED COURSES
BA 111 Business Relations I 1
BA 170 Fundamentals of Accounting 3
BA 171 Fundamentals of Accounting Lab 1
BL 201 Business Law I 3
SPEC 111 Business & Professional Communication OR 3
SPEC 114 Interpersonal Communication

Minimum total hours required for certificate 23

Legal Office Professional

Associate in Applied Science Code 5150
Contact Persons: Quad-Cities Campus, Amy Levins-Smith, Ext. 5329, Rm. 1-366; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

This degree is offered only at the Quad-Cities Campus.

Legal Office Professional students acquire proficiency in keyboarding, machine transcription, written communications, electronic organization tools, and computer software.

Students in this program learn specialized skills appropriate for employment in legal offices. They are acquainted with many legal forms and transcribe legal documents using varied formats. Students are proficient in the use of legal terminology and computers. Internships in local offices provide practical work experience.

Legal Office Professional majors can obtain full-time positions in small or large legal firms and legal departments in banks, insurance companies, and industrial companies. Possibilities of employment are strong locally and nationally.

FIRST SEMESTER SUGGESTED COURSES       CREDIT HOURS
BE 100 Work Environment Orientation 2
BE 106 Records Management 3
BE 141 Computerized Keyboarding I 3
BE 144 Concepts of Information Processing 3
BE 145 A,B,C Information Processing Word OR 3
BE 145 Information Processing
COMM 105 Essentials of English 3

SECOND SEMESTER SUGGESTED COURSES
BA 160 Business Math I 3
BE 142 Computerized Keyboarding II 3
BE 151 Legal Terminology and Procedures 3
* BE 180 Business Communications 4
BL 201 Business Law I 3

THIRD SEMESTER SUGGESTED COURSES
● BA 170 Accounting Fundamentals I 3
● BA 171 Accounting Fundamentals Lab I (Optional)
BE 122 Administrative Support Systems 3
BE 170 Beginning Web Page Development 3
BIOL 150 Medical Terminology 3
CIP 230 Spreadsheet Analysis 3

FOURTH SEMESTER SUGGESTED COURSES
BE 243 Computerized Keyboarding III (Spring) 3
BE 253 Legal Transcription 3
BE 260 Office Management (Spring) 3
BE 261 Seminar 1
BE 265 Internship 3
SPEC 114 Interpersonal Communications OR 3
SPEC 175 Intercultural Communications

Minimum total hours required for degree 64

* Students should look at the Assessment and Orientation on page 27.
● Students with two semesters of high school accounting with a grade of "B" or better may elect not to take this course.

Medical Billing Specialist

Certificate Code 5586
Contact Person: QC Campus, Betsey Morthland, Ext. 5285, Rm. 1-366

This certificate is offered only at the Quad-Cities Campus.

The Medical Billing Specialist Certificate is to prepare students for employment in the health care information management area. This certificate would enable the student to be employed by hospital billing departments, physicians' offices, health care clinics, emergency care clinics, chiropractic offices, psychiatric clinics, health insurance companies, and HMO offices.

The Medical Billing Specialist will work in jobs that require the knowledge of insurance basics, insurance claims, specific health care insurance carrier's expectations, strong data entry skills, team working experience with medical coders and medical transcriptionists and others on the health care team, medical terminology, law, liability and medical ethics when working in the healthcare information management area, internet medical billing opportunities, computer keyboarding with Windows, Medical Manager billing software, and the ability to communicate effectively - both oral and written-with carriers and their representatives and patients.

To deliver these special skills in this program, this curriculum provides both classroom instruction and hands-on experience in the form of an internship.

Primarily, the job would include accounts receivable work, posting receipts, verifying and precertifying insurance, follow up on insurance claims, customer service, medical bill review, handling all assigned claims to conclusion, working with insureds and doctors to arrange settlement, computer work on windows-based programs including Medical Manager software, and collections.

Many physicians' offices would require that the Medical Billing Specialist have some crossover duties required with the receptionist or medical secretary - accepting the duties of scheduling appointments, answering phones, picking up customer information from the hospital, coordination of in-
patient and out-patient coding activities, solving and correcting errors in billing, and physician scheduling.

FIRST SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BE 141</td>
<td>Beginning Keyboarding</td>
<td>3</td>
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<tr>
<td>BIOL 150</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BE 110</td>
<td>Data Entry</td>
<td>2</td>
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<tr>
<td>BE 100</td>
<td>Orientation to Work Environment</td>
<td>2</td>
</tr>
<tr>
<td>BE 156</td>
<td>Introduction to Health Insurance</td>
<td>3</td>
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SECOND SEMESTER SUGGESTED COURSES

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BE 200</td>
<td>Advanced Medical Terminology</td>
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</tr>
<tr>
<td>BE 251</td>
<td>Medical Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BE 249</td>
<td>Management of Health Information</td>
<td>3</td>
</tr>
<tr>
<td>BE 255</td>
<td>Medical Manager</td>
<td>3</td>
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THIRD SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BE 254</td>
<td>Law Liability and Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BE 261</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BE 265</td>
<td>Internship</td>
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</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for Certificate: 39

Medical Coding Specialist

Certificate Code 5584

Contact Person: QC Campus, Betsey Morthland, Ext. 5285, Rm. 1-366

This certificate is offered only at the Quad-Cities Campus.

The Medical Coding Specialist Certificate is to prepare students for employment in the health care information management area. This certificate would enable the student to be employed by hospital coding departments, physicians’ offices, health care clinics, emergency care clinics, chiropractic offices, psychiatric clinics, health insurance companies, and HMO offices. The opportunity for Internet coding work is possible after experience is gained.

The Medical Coding Specialist job entails the translation of diagnoses, procedures, services, and supplies into numeric/alpha-numerical components for statistical reporting and reimbursement. The Medical Coding Specialist can expect team working experience with medical billing specialists and medical transcriptionists and others on the health care team; this person will need special training in medical terminology, anatomy and physiology as well as a thorough understanding of CPT-4 procedure and ICD-9/10 diagnosis coding; also necessary knowledge includes an in-depth understanding of third-party reimbursement and overlap policies, the review and the abstract of in-patient and out-patient medical records, the ability to utilize new coding standards, HIPPA regulations, the ability to resolve insurance carrier rejects and denials related to coding and coverage issues.

To deliver these special skills in this program, this curriculum provides both classroom instruction and hands-on experience in the form of an internship. The internship will be for one semester- minimum 15 hours a week.

Medical Transcription

Certificate Code 5785

Contact Person: Quad-Cities Campus, Betsey Morthland, Ext. 5285, Rm. 1-366

This certificate is offered only at the Quad-Cities Campus.

The Medical Transcriptionist Certificate is a three-semester program; it is offered at the Quad-Cities Campus. Experienced and trained medical transcriptionists are in strong demand.

Students in this program acquire proficiency in medical terminology, medical transcription, proofreading, editing, medical office procedures, medical billing with Medical Manager software, current MS Window word processing application software, and computer keyboarding skill. Students get hands-on practice in preparing physician’s documentation-keyboarding transcription, proofing, and editing sentences for accuracy as a legal document. Students get practical work experience by participating in a one-semester internship in local health care facilities, clinics, or with medical transcription providers.

This program offers the student the opportunity to work in medical offices, hospitals, clinics, insurance companies, or with medical transcription providers. The demand in this area is great for the graduate who has excelled in keyboarding, medical transcription, and proofreading and editing skills.

Currently, experienced medical transcriptionists have the option to work out of their own homes or work for large organizations that outsource their work to in-home workstations. The graduate of this program would have entry-level qualifications to be employed in this career area.
SECOND SEMESTER SUGGESTED COURSES
BE 148  Beginning Medical Transcription  4
BE 251  Medical Office Procedures  3
BE 200  Advanced Medical Terminology  3
BE 255  Medical Manager  3
BE 299  Independent Study  2

THIRD SEMESTER SUGGESTED COURSES
BE 252  Pharmacology Terminology  3
BE 250  Advanced Medical Transcription  4
BE 265  Internship  3
BE 261  Seminar  1
Elective   3

Minimum total hours required for certificate  45

PC Application Programmer Certificate
Certificate Code: 5747
Contact Person: QC Campus, Debbie Collins, Ext. 5316, Rm. 1-352

This certificate is offered only at the Quad-Cities Campus.

This certificate is available for students who are interested in pursuing a career as a PC applications programmer. The emphasis of this certificate is Windows programming and software applications environment. Topics include Visual Basic, Java, databases, programming Microsoft Office applications, and networking fundamentals.

Graduates of the program will find employment in PC programming in a business environment. The student will be prepared for an entry-level programming position.

Prerequisite to program: high school keyboarding, BE 141 or equivalent.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
CS 100  Introduction to Computers  3
CIP 101  Introduction to Programming Logic  4
CIP 104  Introduction to with BASIC  3
NETW 120  Basic Computer Networks  3

SECOND SEMESTER SUGGESTED COURSES
CIP 230  Spreadsheet Analysis  3
CIP 204  Visual Basic Programming  3
CIP 226  Database Management  3
CIP 250  Java Programming Fundamentals  3

THIRD SEMESTER SUGGESTED COURSES
CS 201  Advanced Applications Software  3
CIP 205  Advanced Visual Basic  3

Minimum total hours required for certificate  31

Team Leader
Certificate Code: 5735
Contact Person: QC Campus, Acie Earl, Ext. 5267, Rm. 2-255

Students who enroll in the Team Leader Certificate program will pursue a three-semester course of study designed to give students a more detailed understanding of business topics that build upon the courses found in the Lead Employee Certificate program.

Students who are interested in the Team Leader Certificate will find that the courses in the curriculum are also needed for completion of the Associate in Applied Science degree in Business Management and Marketing.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
BA 110  Introduction to Business  3
BA 160  Math as Applied to Business  3
CS 100  Introduction to Computers  3
ECON 150  Consumer Economics OR  3
ECON 221  Principles of Macroeconomics

SECOND SEMESTER SUGGESTED COURSES
BA 111  Business Relations I  1
BA 112  Business Relations II  1
BA 170  Fundamentals of Accounting  3
BA 171  Fundamentals of Accounting Lab  1
BL 201  Business Law I  3
SPEC 111  Business & Professional Communication OR  3
SPEC 114  Interpersonal Communication

THIRD SEMESTER SUGGESTED COURSES
BA 230  Principles of Marketing  3
BA 240  Principles of Management OR  3
BA 242  Principles of Supervision
BL 202  Business Law II  3
BE 180  Business Communications  4

Minimum total hours required for certificate  37

Technical Communication
Associate in Applied Science Code 5261/Certificate Code 5663
Contact Person: QC Campus, Bill Anderson, Ext. 2218, Rm. 2-256

Students who enroll in the Associate in Applied Science degree program in Technical Communication will pursue a two-year course of study in which they will develop the skills needed to write technical reports, business letters, memos, instructions, technical manuals and other publications prepared by technical writers. Through their concentration in a technical area such as data processing, electronics, or mechanical technology, degree candidates will be able to acquire the technical background they will need to perform well as technical writers. The two-year course of study will culminate in a writing internship during which technical writing majors will gain valuable on-the-job experience assisting a technical writer in an area industry. Persons already employed as technical writers may wish to pursue the eighteen hour Technical Communication Certificate to acquire professional credentials or improve their writing skills.

Technical writers are employed in the Quad-Cities by the U.S. Army Corps of Engineers, the Rock Island Arsenal, and a wide variety of small and medium-sized manufacturers. In addition, many service industries that increasingly rely on technical information now employ technical writers (insurance companies, consulting firms, engineering firms).
Technical Communication Associate in Applied Science

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
ENG 101  Composition I  3

Mathematics  3
Technology Elective  3
Technology Elective  3
Elective  3

SECOND SEMESTER SUGGESTED COURSES
ART 246  Graphic Design  3
ENG 132  Technical Writing I  3
SPEC 101  Fundamentals of Human Communications  3
Technology Elective  3
Humanities  3

THIRD SEMESTER SUGGESTED COURSES
ENG 242  Technical Writing II  3
Technology Elective  3
Technology Elective  3
Writing/Literature Elective  3
Social Science  3
Elective  3

FOURTH SEMESTER SUGGESTED COURSES
ENG 245  Writing Internship  3
Technology Elective  3
Technology Elective  3
Writing/Literature Elective  3
Elective  3

Minimum total hours required for degree  63

Math courses should be appropriate to the student's area of technical concentration.
Strongly recommend: ART 231-Photography; BE 248-Desktop Publishing

Technical Communication Certificate

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
ENG 101  Composition I  3
ENG 132  Technical Writing I  3
SPEC 101  Principles of Speech Communications  3

SECOND SEMESTER SUGGESTED COURSES
ENG 242  Technical Writing II  3
ENG 245  Writing Internship  3
Applied Art/BE 248 Desktop Publishing/ Writing/Literature Elective  3

Minimum total hours required for certificate  18

BE 248 is strongly recommended.

Visual Communication

Associate in Applied Science Code 5147
Contact Persons: QC Campus, Jeanne Tamisiea, Rm. 4-134, Ext. 5470

Students will learn basic commercial art or graphic design skills and processes. Classroom exercises will provide sound practical and theoretical knowledge in design. The following skills will be developed: illustration, design, type usage, layout, and camera or computer applications for graphic design.

Job opportunities include entry level designer, digital pre-press production, illustrator and free-lance artist.

A student who wishes to be a candidate for the Associate in Applied Science degree will submit a portfolio of work which meets the approval of the art faculty. The portfolio must include a complete representation of the student's period of study at Black Hawk College.

Students interested in a four-year bachelor's degree in visual communications should see the Art curriculum on page 104 of this catalog.

Internships are available to selected students in their final semester of the Visual Communications program.

Black Hawk College reserves the right to exhibit and reproduce any work submitted by students for credit in art courses.

It is recommended that Visual Communication majors take as many Art 200 Computer Graphics courses as possible to prepare for a career in graphic design.

First Semester Suggested Courses  Credit Hours
ART 101  Two Dimensional Design  3
ART 122  Drawing and Drawing Theory  3
ART 130  Survey of Materials and Methods  3
ART 200  Art Problems  1
ART 290  Applications in Computer Art  3
COMM 100  Communication Skills OR  3
ENG 101  Composition

Second Semester Suggested Courses
ART 100  Art Appreciation  3
ART 122  Drawing and Drawing Theory  3
ART 130  Survey of Materials and Methods  3
ART 200  Art Problems  3
ART 230  Type and Digital Layout  3
BA 160  Business Math I  3
ENG 132  Technical Writing I OR  3
ENG 243  Writing for the Media

Third Semester Suggested Courses
ART 111  Three Dimensional Design  3
ART 201  Life Drawing  3
ART 231  Photography  3
ART 246  Graphic Design I  3
JOUR 221  Intro to Mass Communication  3
SPEC 114  Interpersonal Communications  3

Fourth Semester Suggested Courses
ART 200  Art Problems  1
ART 210  Introduction to Illustration  3
ART 211  Painting  3
ART 248  Commercial Art  3
BA 236  Introduction to Advertising  3
PSYC 101  Introduction to Psychology  3

Minimum total hours required for degree  68
Web Developer Certificate

Certificate Code: 5746
Contact Person: QC Campus, Debbie Collins, Ext. 5316, Rm. 1-352

This certificate is offered only at the Quad-Cities Campus.

This certificate is designed to train those individuals interested in (or further train those already employed in) Web development and scripting. Topics include HTML scripting languages, Web development software, databases, and either Java or Visual Basic programming language.

Graduates of the program will find entry-level employment in the field of Web page development and maintenance.

Prerequisite to program: high school keyboarding, BE 141 or equivalent.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
BE 170 Beginning Web Page Development 3
CIP 101 Introduction to Programming Logic 4
CIP 104 Introduction to Programming with Basic 3
CS 100 Introduction to Computers 3
ART 200 Art Problems or
ART 290 Applications in Computer Art or
NETW 120 Basic Computer Networks

SECOND SEMESTER SUGGESTED COURSES CREDIT HOURS
BE 171 Web Software Development Tools 3
CIP 181 Advanced Web Page Development 3
CIP 182 Web Scripting 3
CIP 226 Database Management 3
CIP 250 Java Programming Fundamentals or
CIP 204 Visual Basic Programming

Minimum total hours required for certificate 30

Web Programmer

Certificate Code: 5245
Contact Person: QC Campus, Debbie Collins, Ext. 5316, Rm. 1-352.

This certificate is offered only at the Quad-Cities Campus.

The Web Programming degree provides students with the skills necessary to begin a career in Web development. The student will learn to create Web pages using client and server-side programming. The student will also develop Web pages incorporating database applications, components, and Web services. Topics include HTML, scripting languages, Web development software, databases, Java, Visual Basic, accounting, and communications. An internship at the end of the coursework prepares the student for employment in the field.

Graduates of the program will find employment as Web masters, Web developers, Web managers, or Windows application programmers. The student will be prepared for an entry-level programming position.

Prerequisite to program: high school keyboarding, BE 141 or equivalent.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
BE 170 Beginning Web Page Development 3
CIP 101 Introduction to Programming Logic 4
CIP 104 Introduction to Programming with BASIC 3
CS 100 Introduction to Computers 3
NETW 120 Basic Computer Networks 3

SECOND SEMESTER SUGGESTED COURSES CREDIT HOURS
BE 171 Web Software Development Tools 3
CIP 181 Advanced Web Page Development 3
CIP 182 Web Scripting 3
CIP 204 Visual Basic Programming 3
CIP 226 Database Management 3
CIP 205 Advanced Visual Basic 3
NETW 120 Basic Computer Networks 3

THIRD SEMESTER SUGGESTED COURSES CREDIT HOURS
BE 180 Business Communications 4
CIP 205 Advanced Visual Basic 3
CIP 228 Database Programming for Web 3
CIP 260 System Design and Development 3
General Education Elective 3

FOURTH SEMESTER SUGGESTED COURSES CREDIT HOURS
BA 170/171 Fundamentals of Accounting I 4
CIP 206 Web Services 4
CIP 250 Java Programming 3
CIP 270 Field Project 3
ENG 132 Technical Writing I 3

Minimum total hours required for certificate 64
Health Related Curricula

In addition to the programs leading to a certificate or a degree, the College also offers a number of courses for persons employed in health care fields who wish to update knowledge and skills or learn new skills. Among the courses offered are Cardiac Care Nursing, Physical Assessment, Critical Care Nursing, Cancer Nursing, Gerontological Nursing, Concepts of Rehabilitation, and Intravenous Therapy.

All students in health career programs will be asked to fill out an application to grant permission to the State of Illinois and any affiliate acting on behalf of the State of Illinois to conduct a criminal history record check in accordance with the Uniform Conviction Information Act.

Technical Abilities Required by the Health Programs

In order to handle the job responsibilities and tasks assigned to students in the Health Programs, they must be able to:

1. Perform a full range of body motion including handling and lifting patients, and moving, lifting, or pushing heavy equipment.
2. Bend, reach, pull, push, stoop, and walk repeatedly throughout an eight hour period.
3. Demonstrate visual acuity to read small letters and number son gauges (with correction, if needed).
4. Demonstrated auditory acuity to hear breath sounds by stethoscope (with correction, if needed).
5. Demonstrate bilateral upper extremity fine motor skills, including manual and finger dexterity and eye-hand coordination.
6. Communicate in a rational and coherent manner both orally and in writing with individuals of all professions and social levels.
7. Respond quickly and in an emotionally-controlled manner in emergency situations.
8. Adapt to irregular working hours.
9. Adapt effectively to environments with high tension, particularly in critical care areas.
10. Maintain composure when subjected to high stress levels.

The following Health Programs are offered through Black Hawk College:

- Associate Degree Nursing
- Basic Nurse Assistant Training Program
- Dental Assisting*
- Electroneurodiagnostic Technology*
- Emergency Medical Services
- Physical Therapist Assistant (AAS)
- Practical Nursing
- Radiologic Technology (AAS)

*These programs are offered by Scott Community College as part of a cooperative agreement. See the section beginning on page 92 for more information.

Black Hawk College offers programs in health careers to meet the needs of many students. Whether interest is in an eight-week course preparing for almost immediate employment or in a two-year degree program, there is a program to meet all needs.

Persons wishing to enter any career in the health field should be aware that a background which includes science and math courses is required for many health careers. It is also important that the applicant enjoy working with people, be motivated and willing to spend time outside of class in study. All health career programs involve from twenty-four to thirty-six hours per week in class and laboratory instruction for full-time students. It is possible to enroll in certain programs/courses on a part-time basis.

Persons wishing to enroll in any of the health career programs must contact the director/coordinator of the specific program. Enrollment in all programs is limited and specific requirements must be met. These requirements are listed with each program.

Opportunities for persons completing a health career program are limitless. One may be employed in hospitals, nursing homes, clinics, physicians' or dentists' offices, or a number of community agencies. In many instances, completion of a health career program at Black Hawk College provides the foundation for further education in this large and exciting field.
The Associate Degree Nursing (ADN) Program is designed to prepare nurses who, as beginning practitioners, are able to give quality nursing care to clients and function as members of nursing and health teams. Upon completion of the program, a graduate is eligible to take the examination for licensure as a registered nurse.

Registered nurses are employed in hospitals, nursing homes, home health agencies, physicians' offices, clinics, and community agencies.

The curriculum for nursing is career-oriented. The program is accredited by the Illinois Department of Professional Regulation and the National League for Nursing Accrediting Commission (1-800-669-8656).

Each applicant must meet the following admission requirements and will be evaluated on an individual basis:

1. High school graduate or equivalent.
2. Upper third of high school graduation class or consent of nursing department.
3. ACT composite score of 20 or above if applicant has graduated from high school within the past five years and has taken no college courses.
4. Any developmental courses that are required as determined by ASSET scores.
5. College introductory psychology and high school (if graduated within last 5 years) or college biology - passed with a "C" or above. High school or college chemistry is strongly recommended.
6. A 2.7 (C+) cumulative grade point average in college courses. Minimum of nine college level credit hours required if out of high school over five years or does not meet high school requirements.
7. Individual conference with a nursing faculty member.
8. Physically able to provide client care.

Students should refer to ADN program booklet and student handbook for additional guidelines.

Students with chronic health problems or physical disabilities will be accepted unless the health problem or disability is such that the student would be unable to complete the objectives of the program. (See technical abilities required by health care programs, pg. 61.)

For Licensed Practical Nurses who desire advanced placement, the same admission procedures apply. Once accepted into the nursing program, the LPN then takes Nursing 100-Transition Course for LPNs. Upon successfully passing the Transition Course, LPNs will receive credit for Nursing 111. In addition, LPNs may request to proficiency two additional nursing courses. Students requesting to proficiency any nursing courses must have a minimum of one year’s work experience in the area in which they wish to proficiency. Verification of work experience will be requested. Proficiencies will be given at the faculty's discretion. Proficiency exams will include both theory and clinical components. Fees for proficiency exams will be assessed.

All students must achieve grades of "C" or above in all required general education courses.

Required general education courses may be repeated until a "C" grade is earned but the student may have to drop out of nursing in order for the course to be properly sequenced in the nursing curriculum.

Students must achieve a grade of "C" or better in all nursing courses. If a lower grade is earned the course may be repeated once. If the student fails to earn a grade of "C" or better on the second attempt, they will be dismissed from the program. A second failure to earn a "C" in subsequent nursing courses, even though the first course may have been successfully repeated, is also grounds for dismissal.

Students returning to the nursing program after a period of absence will be evaluated on an individual basis as to both theory and clinical competencies before re-admission.

All nursing courses (NURS) are eight weeks or less in length, with the exception of NURS 111 and 230 which are 16 weeks. Non-nursing courses may be taken prior to or concurrently with the nursing courses in the same level, unless permission is obtained from the Associate Degree Nursing Department to alter the plan.

Laboratory fees for nursing courses are approximately $350 per semester. These are in addition to other College fees.

### NURSING ASSOCIATE DEGREE

**PREPARATORY COURSE**

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<tr>
<th>COURSE</th>
<th>CREDIT HOURS</th>
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<tr>
<td>PSYC 101</td>
<td>Introductory Psychology</td>
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**LEVEL I**

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<td>BIOL 145</td>
<td>Anatomy-Physiology I</td>
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<td>NURS 111</td>
<td>Principles of Nursing Care</td>
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<td>PSYC 200</td>
<td>Human Growth and Development</td>
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**LEVEL II**

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<td>Anatomy-Physiology</td>
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<td>NURS 120</td>
<td>Adult Health Nursing I</td>
</tr>
<tr>
<td>NURS 121</td>
<td>Mental Health Nursing</td>
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<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
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**LEVEL III**

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<td>Microbiology</td>
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<tr>
<td>NURS 213</td>
<td>Maternity Nursing</td>
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<td>NURS 214</td>
<td>Principles of Nursing of Children</td>
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<tr>
<td>NURS 215</td>
<td>Geriatric Nursing</td>
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<tr>
<td>SPEC 175</td>
<td>Intercultural Communications OR</td>
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<tr>
<td>ANTH 102</td>
<td>Introduction to Cultural Anthropology</td>
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LEVEL IV

ENG 101  Composition I  3
NURS 221  Adult Health Nursing II  5
NURS 222  Adult Health Nursing III  5
NURS 230  Nurse Seminar  2
MATH elective  3

Minimum total hours required for degree  72

Completion of the Associate Degree Nursing program does not automatically guarantee a graduate the right to take the National Council Licensing Examination or to become licensed as a registered nurse. The student is bound by the Illinois Nursing Act Section 8 and Section 15.

Basic Nurse Assistant Training Program

Certificate Code 5566
Contact Person: QC Campus, Sally Flesch, Ext. 5392, Rm. 3-379; East Campus, Patty Varner, Ext. 6222, Rm. A-102

The applicant must meet the following admission requirements:
- Must be at least 16 years of age
- Minimum of 8th grade education; 10th grade or above preferred
- A tuberculosis screening is required prior to beginning clinical practicum

All students must achieve grades of "C" or above in theory and application areas in order to receive a certificate of completion.

Upon successful completion, the student will receive a certificate which will be recognized by the Illinois Department of Public Health and the Iowa Health Department as having met basic educational preparation to perform in the capacity of nurse assistant. The student will also be eligible to take the Nurse Aide Training Competency Evaluation Program written and performance test a federal requirement.

Successful completion of the Illinois Department of Public Health state examination is required for licensure prior to employment.

Job opportunities include hospitals, private ambulance services, municipal fire, police or rescue squad departments. Volunteers are generally EMT-Basic Level. Those with more education and skill such as the EMT-I or EMT-P are more likely to hold a paid position.

Emergency Medical Services

Certificate Code 5532, 5539
Contact Person: QC Campus, Bruce Smith, Ext. 5391, Rm. 3-155; East Campus, Patty Varner, Ext. 6222, Rm. A-102

Emergency Medical Services education is offered through the Allied Health department in cooperation with Illini Hospital.

This education prepares individuals for entry-level positions as emergency medical technicians. The program prepares individuals to provide basic and advanced life support in out-of-the-hospital settings to critically ill and injured persons.

Each applicant must take the ASSET test prior to enrollment and a physical examination is required prior to beginning clinical practice/ride time.

To prepare individuals to function in the pre-hospital role, a combination of educational methods will be used including theory instruction, demonstration and practice of life-saving skills for simulated and real emergency situations. Instruction is provided by physicians specializing in emergency medicine, registered nurses, and paramedics with advanced education in medical and trauma management.

Emergency Medical Technician - Intermediate Certificate

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
EMS 100  Emergency Medical Technician Basic  7

SECOND SEMESTER SUGGESTED COURSES
EMS 120  Emergency Medical Technician Intermediate Theory  8

THIRD SEMESTER SUGGESTED COURSES
EMS 122  Emergency Medical Technician Intermediate Theory  8

FOURTH SEMESTER SUGGESTED COURSES
EMS 123  Emergency Medical Technician Intermediate Clinical  4

FIFTH SEMESTER SUGGESTED COURSES
EMS 121  Emergency Medical Technician Intermediate Clinical  3

Minimum total hours required for Certificate  30

Emergency Medical Technician - Paramedic Certificate

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
EMS 100  Emergency Medical Technician Basic  7

SECOND SEMESTER SUGGESTED COURSES
EMS 120  Emergency Medical Technician Intermediate Theory  8
EMS 160  Emergency Medical Technician – Paramedic Theory I  6
Physical Therapist Assistant

Associate in Applied Science Code 5079

Contact Person: QC Campus, Larry Gillund, Ext. 5393, Rm. 3-152; East Campus, Patty Varner, Ext. 6222, Rm. A-102

The Associate in Applied Science in Physical Therapist Assistant prepares students to perform physical therapy procedures under the supervision of a physical therapist. Physical therapist assistants are primarily employed in hospitals, extended care and nursing home facilities, and in private practices.

The curriculum for Physical Therapist Assistant is career oriented and accredited by the American Physical Therapy Association.

Each applicant must meet the following requirements:

- High school graduation or equivalent
- Physical examination required prior to any clinical experience.
- Any developmental courses that are required as determined by ASSET scores and program faculty
- One year high school biology course or equivalent passed with a grade of "C" or above
- Minimum of "C" average in courses previously completed at Black Hawk College
- Personal interview with PTA faculty
- Students must achieve a grade of "C" or above in all courses to continue in the program

There is no waiting list for the PTA program. Interested students are encouraged to apply for admission. The PTA program is a competitive admission program. Applications to the program can be picked up or mailed from the New Student Services Office at the Quad-Cities Campus.

Applications to the program will be accepted each year for admission to the PTA classes beginning September 1 and are strongly encouraged to be submitted by June for admission into the Fall semester. A maximum of 24 students are accepted each year in this program.

Minimum total hours required for Certificate 49

Practical Nursing

Certificate Code 5666

Contact Persons: QC Campus, Sally Flesch, Ext. 5392, Rm. 3-379; East Campus, Patty Varner, Ext. 6222, Rm. A-102

The curriculum in Practical Nursing is career-oriented and the applicant must meet the following requirements for admission.

- High school graduation or equivalent
- Physical examination is required prior to beginning clinical practice
- Student must achieve a grade of "C" or above in all courses to continue in the program

Upon completion of this course of study, the student may be eligible to take the examination to become a licensed practical nurse in Illinois.

Licensed practical nurses are employed in hospitals, nursing homes, physicians' offices, clinics, and a number of community agencies.
FIRST SEMESTER SUGGESTED COURSES
PN 101  Fundamentals of Practical Nursing  6
PNC 101  Clinical Fundamentals  2
PN 103  Geriatric Nursing  3
PNC 103  Clinical Geriatrics  1
PN 105  Pharmacology, Basic Math and Administration  1
PN 130  Mental Health Nursing  3
PNC 130  Clinical Mental Health  1

Completion of the Practical Nursing program does not automatically guarantee a graduate the right to take the National Council Licensing Examination or to become licensed as a practical nurse. The student is bound by the Illinois Nursing Act Section 9 and Section 15.

SECOND SEMESTER SUGGESTED COURSES
PN 106  Pharmacology  1
PN 124  Maternal Child Health  6
PNC 124  Clinical Maternal Child Health  2
PN 125  Medical Surgical Nursing  6
PNC 125  Clinical Medical-Surgical Nursing  2

Minimum total hours required for certificate  40

Radiologic Technology

Associate in Applied Science Code 5071
Contact Persons: QC Campus, Cheryl Hardison, Ext. 5363, Rm. 3-377; Student Services, Trinity Medical Center, 757-2903

Black Hawk College offers an Associate in Applied Science degree completion program to persons completing an approved Radiologic Sciences program of study. A wide variety of opportunities exists for persons entering the medical imaging profession including general and specialized medical imaging, management, education and sales.

Enrollment in this program is limited and specific requirements must be met. Students are admitted based upon date of application and completion of prerequisite courses. Contact the Trinity Medical Center’s School of Radiography early to facilitate planning.

The following college courses are highly recommended for completion prior to enrollment: BIOL 145, 146, 150.

GENERAL EDUCATION COURSES  CREDIT HOURS
ENG 101  Composition I  3
PSYC 101  Introductory Psychology  3
SPEC 101 Principles of Speech Communication OR  3
SPEC 114 Interpersonal Communication
*MATH 110 Mathematics for General Education OR  3
CS 100  Introduction to Computers

TECHNICAL CORE COURSES
Radiologic Technology  35-42

REQUIRED COURSES
BIOL 145  Anatomy-Physiology I  4
BIOL 146  Anatomy-Physiology II  4

Minimum total hours required for Degree  65

* Or comparable MATH course.

As indicated in the Trinity Radiography Curriculum Plan, BIO 145 and 146 may be taken concurrently in the Fall and Spring Semesters of YEAR ONE. However, it is strongly recommended that BIO 145 and 146 are taken PRIOR to the core radiography courses at Trinity. BIO 145 and 146 are prerequisites to YEAR TWO.

The General Education Requirements for the AAS listed above maybe completed before, during, or after the Radiography Curriculum courses taken at Trinity. Currently, the AAS degree is strongly recommended but remains an optional choice for the student. A total of 20% of the AAS credits (15 credits) must be completed at Black Hawk College to earn the AAS degree, therefore a student may be required to take additional course(s).

TECHNICAL CORE COURSES  CREDIT HOURS
Certificate awarded by Trinity  62
Optional Associate of Applied Science Degree awarded by Black Hawk College
Minimum of 15 general education credits  74
The Child Development curriculum is offered by the Department of Social, Behavioral and Educational Studies at the Quad-Cities Training Center in East Moline and Quad-Cities Campus, Moline. The Child Development career program is especially designed to prepare persons to work with groups of pre-school children in facilities which foster healthy social, physical, emotional and intellectual growth. The Black Hawk College Child Development Program has been approved as an entitled program leading to the Illinois Director Credential, Level I. To earn this credential, students must follow a prescribed course of study.

Students will take classes designed to give particular understanding and skills in such areas as human growth and development, nutrition, and behavior. These classes will be taken at the main campus and the Quad-Cities Training Center. Observation and practical experience will take place in local (off-campus) and on campus preschool and child care facilities.

Employment possibilities for graduates are in the areas of center child care, home child care, preschool and public school programs. Positions include child care/preschool director, child care/preschool teacher, child care/preschool teacher aide or assistant, homecare giver, public school teacher aide, or recreational worker.

The Teacher Aide Certificate is designed to prepare individuals to be Teacher Aides in the public school systems; from preschool through high school, including special education. This certificate can lead directly into the 2-year Child Development Associate in Applied Science degree.

### Associate in Applied Science Degree

<table>
<thead>
<tr>
<th>FIRST SEMESTER SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 100 Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CD 200 Growth and Development of the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CD 206 Creative Activities for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CD 207 Music for Young Children OR</td>
<td>3</td>
</tr>
<tr>
<td>CD 222 Child, Family, Community</td>
<td></td>
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<tr>
<td>COMM 100 Communication Skills OR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 Composition I</td>
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</table>

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<thead>
<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 202 Observation and Guidance of the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CD 203 Curriculum for Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>CD 225 Math and Science for the Young Child</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 101 Introductory Psychology OR</td>
<td></td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
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</tbody>
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<thead>
<tr>
<th>THIRD SEMESTER SUGGESTED COURSES</th>
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</thead>
<tbody>
<tr>
<td>CD 204 Child Development Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>CD 224 Methods of Guiding Children's Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HEAL 102 Living in a Changing World</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>3</td>
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<thead>
<tr>
<th>FOURTH SEMESTER SUGGESTED COURSES</th>
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</thead>
<tbody>
<tr>
<td>CD 201 Health, Safety, and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CD 214 Child Development Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>CD 212 Survey of Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>CD 220 Child Care Center/Early Childhood Administration</td>
<td>3</td>
</tr>
<tr>
<td>SPEC 111 Business and Professional Communications OR</td>
<td>3</td>
</tr>
<tr>
<td>SPEC 175 Intercultural Communications OR</td>
<td></td>
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<tr>
<td>SPEC 101 Principles of Speech Communication</td>
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</tr>
</tbody>
</table>

Minimum total hours required for degree: 64

Black Hawk College’s Child Development AAS Degree Program is now entitled to offer the Illinois Director’s Credential Level I to students graduating who follow these guidelines:

1. Graduate with Child Development AAS degree.  
2. Take Speech 101, CS 100, CD 222, Eng 101.  
3. Either come into the program with one year full-time management experience or take summer internship CD 240 or do one year management experience within two years of graduation.  
4. Do two advocacy projects with CD 220 class.  
5. Send $50 to IDC Commission to apply.

### Teacher Aide Certificate

<table>
<thead>
<tr>
<th>FIRST SEMESTER SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
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</thead>
<tbody>
<tr>
<td>CD 102 Role of Teacher Assistant</td>
<td>2</td>
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<tr>
<td>CD 205 Language Development and Activities for the Young Child</td>
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<tr>
<td>CD 200 Growth and Development of Young Child</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100 Communication Skills OR</td>
<td></td>
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<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HEAL 102 Living in a Changing World</td>
<td>2</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology OR</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101 Introductory Psychology</td>
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</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 202 Observation and Guidance of the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CD 212 Survey of Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>HPE 200 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Child Development Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
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</tbody>
</table>

Minimum total of hours required for certificate: 31
English as a Second Language

Certificate of Proficiency
Contact Person: QC Campus, Anne Bollati, Ext. 5183, Lower Level of LRC; East Campus, Patty Varner, Ext. 6222, Rm. A-102

This certificate is intended for international students and non-native residents who wish to develop proficiency in academic English and study skills.

To receive an internal certificate of proficiency in ESL, a student must receive a "C" grade or better in each of the following:

- ESL 061 Basic Sentence Structure
- ESL 063 Reading I
- ESL 065 Writing I
- ESL 067 Listening/Speaking I
- ESL 069 Pronunciation and Conversation
- COMM105/ESL 072 Complex Sentence Structure
- ESL 073 Reading II
- ESL 075 Writing II
- COMM 100/ESL 078 Listening/Speaking II

Upon entering the program, students are given the Michigan Test of English Language Proficiency. Students who prove proficiency through the Michigan Test do not have to take all of the above courses.
Trade and Technical Programs

Black Hawk College offers Certificate programs and Associate in Applied Science degree programs in trade technology career fields.

These programs cover a wide range of training in technical and trade related fields and vary in time and duration. Students interested in a technical career can tailor their course selection in many areas, including basic science, mathematics, and applied disciplines. It is important that students be motivated to enter these areas and be willing to spend extra hours in study and laboratory work. Both day and evening classes are available in most courses, and both full and part-time students may enroll.

Opportunities for employment are excellent in these areas. Graduates in technology based programs are highly sought by industrial recruiters. Salaries are good to excellent, but depend on training, availability, industrial experience, and motivation of the job applicant.

Many industrial update, CEU, and continuing training programs are available by cooperative design with the College. Contact the specific person responsible for each program for information.

Students interested in pursuing a four-year program in engineering should see the Pre-Engineering curriculum on page 110.

There are many trade and technical courses which will articulate (transfer) from high school to college credit. See an advisor for more information.

Apprentice Training Programs

Contact Persons: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159; QC Campus

Black Hawk College offers apprenticeship related classroom training principally as a service to local firms who sponsor a formal apprentice training program. Typically, this involves forty per week on the job, and four hours per week of related study in the classroom.

Persons not having an on-the-job training connection may take related study courses, but are not encouraged to do so inasmuch as apprenticeship-related study alone does not qualify one for a journeyman certificate.

The present Black Hawk College apprentice training program is a continuation of that sponsored by the former Associated Industries of the Quad-Cities (now Associated Employers of the Quad-Cities), and as such, provides certain centralized services. Many of the sponsoring organizations are registered with the Department of Labor, Bureau of Apprenticeship Training, with whom the College cooperates. Black Hawk College does no screening of applicants. It is up to the individual to secure employment.

Students desiring information regarding apprenticeships may contact Tom Acuff.

Active certificate programs are:
1. Carpenter 36 credit hours
2. Electrician 36 credit hours
3. Machine Repair 36 credit hours
4. Machinist 36 credit hours
5. Patternmaker 45 credit hours
6. Sheet Metal 36 credit hours
7. Tool and Die Maker 36 credit hours

The College also offers an AAS degree in carpenter apprenticeship (AAS code 5172). This is a 61 credit hour program which requires the completion of the 36 credit hours in the carpenter apprentice certificate program, an eight credit hour carpenter internship course (CA 299), and 17 credit hours of a general education component. The general education component is comprised of the following five courses: COMM 100, CS 100, MATH 103, SOC 101, and SPEC 114. Further information may be obtained by contacting Lowell Doerder, Ext. 5387.

Automotive Repair Technology

Associate in Applied Science Code 9298
Contact Person: East Campus, Roger Grundstrom, Ext. 6234, Rm. B-116; or Patty Varner, Ext. 6222, Rm. A-102

The Automotive Repair Technology program provides a proper balance of theory and practical knowledge for students preparing for careers in the automotive service industry. Graduates of the program may become employed as automotive mechanic technicians, transmission specialists, service managers, or service writers in automotive dealerships and automotive repair businesses.

The curriculum emphasizes laboratory diagnostic procedures in both domestic and foreign engines, electrical systems, transmissions, drive trains, suspension systems, computerized control systems, and electronic fuel control systems. Students will be prepared to take and expected to pass Automotive Service Excellence (ASE) certification tests in order to qualify for the work experience internship. Students will be placed in automotive dealerships and automotive repair businesses during the last semester of the program in order to gain on-the-job experience.
The Automotive Repair Certificate program provides practical knowledge of the component parts and the fundamentals of operation of the automobile as well as diagnostic and repair procedures. Classroom and laboratory instruction is provided. Students completing the certificate may be employed as brake specialists, wheel alignment and suspension specialists, air conditioning specialists, transmission specialists, or automotive repair specialists in automotive repair businesses and automotive dealerships. The Automotive Repair Certificate differs from the Automotive Repair Technology degree in that it is comprised of only auto and mechanics courses and may be completed in one year.

Enrollment in the program is limited. Students are required to provide their own basic set of tools. Information on admission requirements and required tools may be secured from one of the contact persons or the Enrollment Services Office.

### First Year

**FALL SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>AUTO 107</td>
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<tr>
<td>MECH 102</td>
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<tr>
<td>MECH 103</td>
<td>4</td>
</tr>
<tr>
<td>MECH 111</td>
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**SPRING SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>AUTO 115</td>
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<tr>
<td>MECH 104</td>
<td>3</td>
</tr>
<tr>
<td>MECH 108</td>
<td>3</td>
</tr>
<tr>
<td>MECH 211</td>
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**SUMMER SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>AUTO 207</td>
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</tr>
<tr>
<td>AUTO 299</td>
<td>1</td>
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<tr>
<td>MECH 105</td>
<td>4</td>
</tr>
<tr>
<td>MECH 112</td>
<td>3</td>
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<tr>
<td>MECH 290</td>
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Minimum total hours required for certificate: 43

### Second Year

**FALL SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>CS 100</td>
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<tr>
<td>COMM 100</td>
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<tr>
<td>MATH</td>
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<tr>
<td>Science</td>
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**SPRING SEMESTER SUGGESTED COURSES**

<table>
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<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BA 110</td>
<td>3</td>
</tr>
<tr>
<td>AUTO or MECH</td>
<td>6</td>
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</tbody>
</table>

Minimum total hours required for degree: 66

Suggested electives: AUTO 100, 101; MECH 109, 219, 291

### Brake Specialist

**Certificate Code 5512**

**Contact Person:** East Campus, Roger Grundstrom, Ext. 6234, Rm. B-116; or Patty Varner, Ext. 6222, Rm. A-102

The Brake Specialist certificate program provides practical knowledge of the component parts as well as the diagnostic and repair procedure required to become a brake technician. Students completing the certificate may be employed as entry-level brake technicians in brake specialty shops, automotive repair businesses, or automotive dealerships. This program may be completed in one semester.

Enrollment in the Brake Specialist certificate program is limited. Students are required to provide their own basic set of tools. Information on admission requirements and required tools may be secured from one of the contact persons or the Enrollment Services Office.

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>AUTO 107</td>
<td>4</td>
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<tr>
<td>MECH 102</td>
<td>4</td>
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<tr>
<td>MECH 103</td>
<td>4</td>
</tr>
<tr>
<td>MECH 111</td>
<td>4</td>
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</tbody>
</table>

Minimum total hours required for certificate: 16
Wheel Alignment and Suspension Specialist

Certificate Code 5514  
Contact Person: East Campus, Roger Grundstrom, Ext. 6234, Rm. B-116; or Patty Varner, Ext. 6222, Rm. A-102

The Wheel Alignment and Suspension Specialist certificate program provides students with practical knowledge of the component parts as well as the diagnostic and repair procedure required to become an alignment-suspension specialist. Students completing this certificate program may be employed as entry-level alignment-suspension technicians in alignment-suspension shops, automotive repair businesses, or automotive dealerships. This program may be completed in one semester.

Enrollment in the Wheel Alignment and Suspension Specialist certificate program is limited. Students are required to provide their own basic set of tools. Information on admission requirements and required tools may be secured from one of the contact persons or the Enrollment Services Office.

SPRING SEMESTER  CREDIT HOURS
AUTO 115  Wheel Alignment & Suspension  4  
MECH 104  Electrical Systems II  3  
MECH 108  Hydraulic Transmissions  3  
MECH 109  Power Trains  3  
MECH 211  Engine Repair II  4

Minimum total hours required for certificate  17

Air Conditioning Specialist

Certificate Code 5513  
Contact Person: East Campus, Roger Grundstrom, Ext. 6234, Rm. B-116; or Patty Varner, Ext. 6222, Rm. A-102

The Air Conditioning Specialist certificate program provides the practical knowledge of the component parts as well as the diagnostic and repair procedure required to become an air conditioning specialist. Students completing this certificate program may be employed as entry-level air conditioning technicians in air conditioning specialty shops, automotive repair businesses, or automotive dealerships. This program may be completed in one semester.

Enrollment in the Air Conditioning Specialist certificate program is limited. Students are required to provide their own basic set of tools. Information on admission requirements and required tools may be secured from one of the contact persons or the Enrollment Services Office.

SUMMER SEMESTER  CREDIT HOURS
AUTO 207  Engine Performance II  3  
AUTO 299  ASE Review  1  
MECH 105  Fuel Control Systems  4  
MECH 112  Air Conditioning  3  
MECH 290  Work Experience Intern Seminar  1

Minimum total hours required for certificate  12

Agriculture Mechanics Technology

Associate in Applied Science Code 9081  
Contact Person: East Campus, Roger Grundstrom, Ext. 6234, Rm. B-116; or Patty Varner, Ext. 6222, Rm. A-102

The Agriculture Mechanics Technology degree program provides a proper balance of theory and practical application for students preparing for careers in the agricultural machinery and equipment industry. Graduates of the program may become employed as mechanics, machinery and equipment technicians, parts specialists, machinery and equipment sales persons, or service managers in agricultural implement dealerships and agricultural equipment repair businesses.

The curriculum emphasizes laboratory diagnostic procedures in the areas of diesel and gasoline engines; electrical systems, including computerized control systems and electronic fuel control systems; transmissions and power trains; and hydraulic systems. Additional experience will be provided to students in the area of machinery operation and management. Students are placed in agricultural implement dealerships and agricultural equipment repair businesses for an eight-week internship. Through the internship, students gain valuable on-the-job experience as they apply what they have learned in class.

Enrollment in the Agriculture Mechanics Technology degree program is limited. Students are required to provide their own basic set of tools. Information on admission requirements and required tools may be secured from one of the contact persons or the Enrollment Services Office.

First Year  CREDIT HOURS
FALL SEMESTER
AG 275  Field Machinery Operations I  3  
MECH 102  Brake and Hydraulic Systems  4  
MECH 103  Electrical Systems I  4  
MECH 111  Engine Repair I  4  
SPRING SEMESTER
AG 276  Field Machinery Operations II  3  
MECH 104  Electrical Systems II  3  
MECH 108  Hydraulic Transmissions  3  
MECH 211  Engine Repair II  4  
MECH Elective  3
SUMMER SEMESTER
AG 273  Lawn and Garden Equipment Repair  4  
MECH 105  Fuel Control Systems  4  
MECH 112  Air Conditioning  3  
MECH 290  Work Experience Intern Seminar  1

Second Year
FALL SEMESTER
CS 100  Introduction to Computers  3  
COMM 100  Communication Skills  3  
MATH Elective  3  
Science Elective  3
SPRING SEMESTER
BA 110  Introduction to Business  3  
AG or MECH Electives  6

Minimum total hours required for degree  64
Suggested electives: AG 172, 271; MECH 109, 215, 219, 291
Agriculture Mechanics

Certificate Code 9583
Contact Person: East Campus, Roger Grundstrom, Ext. 6234, Rm. B-116; or Patty Varner, Ext. 6222, Rm. A-102

The Agriculture Mechanics Certificate program provides practical knowledge of the component parts and fundamentals of operation of the agricultural equipment and machinery as well as diagnostic and repair procedures. Classroom and laboratory instruction is provided. The Agriculture Mechanics Certificate program differs from the Agriculture Mechanics Technology degree program in that it is comprised of only mechanics courses and may be completed in one year.

Enrollment in the Agriculture Mechanics certificate program is limited. Students are required to provide their own basic set of tools. Information on admission requirements and required tools may be secured from one of the contact persons or the Enrollment Services Office.

FALL SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 275</td>
<td>Field Machinery Operations I</td>
<td>3</td>
</tr>
<tr>
<td>MECH 102</td>
<td>Brake and Hydraulic Systems</td>
<td>4</td>
</tr>
<tr>
<td>MECH 103</td>
<td>Electrical Systems I</td>
<td>4</td>
</tr>
<tr>
<td>MECH 111</td>
<td>Engine Repair I</td>
<td>4</td>
</tr>
</tbody>
</table>

SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 276</td>
<td>Field Machinery Operations II</td>
<td>3</td>
</tr>
<tr>
<td>MECH 104</td>
<td>Electrical Systems II</td>
<td>3</td>
</tr>
<tr>
<td>MECH 108</td>
<td>Hydraulic Transmissions</td>
<td>3</td>
</tr>
<tr>
<td>MECH 109</td>
<td>Power Trains</td>
<td>3</td>
</tr>
<tr>
<td>MECH 211</td>
<td>Engine Repair II</td>
<td>4</td>
</tr>
</tbody>
</table>

SUMMER SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 273</td>
<td>Lawn and Garden Equipment Repair</td>
<td>4</td>
</tr>
<tr>
<td>MECH 105</td>
<td>Fuel Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>MECH 112</td>
<td>Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>MECH 290</td>
<td>Work Experience Intern Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate: 43

CAD/CAM-Manufacturing Technology

Certificate Code 5087
Contact Person: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159

Students will learn the processes required to mass produce parts or machines. Selection of machine tools, jigs, fixtures, inspection, and handling equipment will be studied. Emphasis is made on the use of computers to control machine tools (Numerical Control) and to make mathematical calculations. The effect of heat treatment on materials and machining methods in relation to tolerances and metrology is included. The use of oral, written, and computer record management is discussed.

Job opportunities include computer programming positions, process routing, inventory control, plant layout, inspection, and production supervision in manufacturing. Sales, service and installation of machine tools are other viable career options.

Students completing this AAS degree in Manufacturing may transfer to such four year institutions such as Western Illinois University, Bradley University, Northern Illinois University, and Southern Illinois University to continue work towards a Bachelor of Science degree in Manufacturing. Consult with your advisor to arrange your program so that a major portion of it will transfer.

Those interested in a four-year Industrial Engineering or Mechanical Engineering program should see the Pre-Engineering curriculum on page 110.

FIRST SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>Composition I OR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Communication Skills</td>
<td></td>
</tr>
<tr>
<td>MATH 123</td>
<td>Technical Algebra/Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>MT 200</td>
<td>Computerized Numerical Control Processes</td>
<td>4</td>
</tr>
<tr>
<td>MT 244</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
</tbody>
</table>

SECOND SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT 144</td>
<td>Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>MATH 223</td>
<td>Technical Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MT 215</td>
<td>Computer Aided Mfg. (CAM) Programming</td>
<td>4</td>
</tr>
<tr>
<td>MT 245</td>
<td>Computer Aided Drafting I</td>
<td>3</td>
</tr>
</tbody>
</table>

THIRD SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 210</td>
<td>Hydraulics and Pneumatics</td>
<td>4</td>
</tr>
<tr>
<td>MT 213</td>
<td>Computer Aided Manufacturing</td>
<td>4</td>
</tr>
<tr>
<td>MT 220</td>
<td>Statics and Strength of Materials</td>
<td>6</td>
</tr>
<tr>
<td>MT 246</td>
<td>Computer Aided Drafting II</td>
<td>3</td>
</tr>
</tbody>
</table>

FOURTH SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 132</td>
<td>Technical Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ET 102</td>
<td>Basic Electricity</td>
<td>3</td>
</tr>
<tr>
<td>MT 230</td>
<td>Metallurgy and Heat Treatment</td>
<td>4</td>
</tr>
<tr>
<td>MT 240</td>
<td>Quality Control Inspection</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree: 68

CAD Certificate: 3D-Modeling

Certificate Code 5776
Contact Person: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159

To receive this certificate, students are required to complete the following courses in computer aided drafting and 3D modeling:

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 244</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>MT 245</td>
<td>Computer Aided Drafting I</td>
<td>3</td>
</tr>
<tr>
<td>MT 246</td>
<td>Computer Aided Drafting II</td>
<td>3</td>
</tr>
<tr>
<td>MT 247</td>
<td>Computer Aided Drafting III</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate: 12
**CAD Certificate**

**Certificate Code 5665**
**Contact Person: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159**

Students will learn the fundamentals of making engineering drawings showing details and assemblies of machines and tools. They will learn the methods used to reproduce and make changes to and distribute drawings. Shop terms, manufacturing methods, measurement, inspection, and computer aided drafting techniques used in industry are also learned.

Job opportunities include CAD positions in manufacturing, design, engineering, steel fabricating and government with agencies under the supervision of engineers and engineering technicians. This certificate is excellent preparation for an AAS degree.

**FIRST SEMESTER REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>* GT 101</td>
<td>Basic Technical Drafting</td>
<td>5</td>
</tr>
<tr>
<td>*MATH 113</td>
<td>Technical Algebra and Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MT 244</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 100</td>
<td>Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>MATH 123</td>
<td>Technical Algebra/Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>MD 101</td>
<td>Product Drafting</td>
<td>5</td>
</tr>
<tr>
<td>MT 245</td>
<td>Computer Aided Drafting I</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for Certificate 32

* Assessment of technical math skills is required. Assessment of drafting skills can result in higher course placement. See page 27.

**CNC Machine Tool Programming**

**Certificate Code 5574**
**Contact Persons: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159**

The Machine Tool program is offering a new sequence of programming and operations courses on CNC machines using vertical mills and lathes. This program is highly recommended for update training and advanced study on modern machine tool equipment.

**REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 200</td>
<td>Computerized Numerical Control Processes</td>
<td>4</td>
</tr>
<tr>
<td>MT 213</td>
<td>CNC Lathe Programming</td>
<td>4</td>
</tr>
<tr>
<td>MT 214</td>
<td>Computerized Numerical Control Programming</td>
<td>4</td>
</tr>
<tr>
<td>MT 215</td>
<td>Computer Aided Manufacturing (CAM) Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 16

**Computer Operation and Equipment Repair**

**Certificate Code 5625**
**Contact Person: QC Campus, Don Mosier, Ext. 5278, Rm. 2-159; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246.**

This certificate program prepares individuals for positions in computer operations, maintenance, and repair of personal computers. The program develops computer technicians that will assume the responsibilities of hardware maintenance, application assistance, and software support in commercial and industrial environments. Graduates from this program will be responsible for installing software, troubleshooting and repairing or replacing faulty components (disks, memory, I/O devices, etc.), assist with computer related purchases and inventories, supporting peripheral devices (i.e., modems, printers, monitors, etc.) and performing basic computer maintenance.

Opportunities for employment exist in commercial, business, and industrial environments. Typical positions include field service personnel, computer system support staff.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT 101</td>
<td>Basic Technical Drafting</td>
<td>5</td>
</tr>
<tr>
<td>MATH 123</td>
<td>Technical Algebra/Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>MT 120</td>
<td>Materials of Engineering</td>
<td>2</td>
</tr>
<tr>
<td>MT 244</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>IT electives</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Civil Technology**

**Associate in Applied Science Code 5142**
**Contact Person: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159**

Fundamental concepts learned in this program include surveying, soils, steels, drafting, materials, strength, concrete properties, technical report writing, and an appreciation for the use of mathematics as a tool in solving practical civil engineering problems. Other benefits include the Capstone Program of some universities for a four-year degree in Civil Engineering Technology.

Job opportunities include working as a technician in careers such as high way departments, construction companies, governmental agencies, and private consulting firms. Students interested in a four-year Civil Engineering program should also see the Pre-Engineering curriculum on page 110.
SECOND SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>GT 102</td>
<td>Descriptive Geometry</td>
<td>2</td>
</tr>
<tr>
<td>MATH 223</td>
<td>Technical Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MT 245</td>
<td>Computer Aided Drafting I</td>
<td>3</td>
</tr>
<tr>
<td>CT elective</td>
<td>(Students seeking a four-year degree should consider ENG 101 the prerequisite to MT 108 rather than COMM 100.)</td>
<td></td>
</tr>
</tbody>
</table>

THIRD SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>Composition I OR</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Communication Skills</td>
<td></td>
</tr>
<tr>
<td>GT 151</td>
<td>Surveying I</td>
<td>4</td>
</tr>
<tr>
<td>MT 220</td>
<td>Statics and Strength of Materials</td>
<td>6</td>
</tr>
<tr>
<td>CT elective</td>
<td>(Assessment of technical math skills is required. Assessment of drafting skills can result in higher course placement. See page 27.)</td>
<td></td>
</tr>
</tbody>
</table>

FOURTH SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>Composition II OR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 132</td>
<td>Technical Writing I</td>
<td></td>
</tr>
<tr>
<td>GT 152</td>
<td>Surveying II</td>
<td>4</td>
</tr>
<tr>
<td>MT 210</td>
<td>Hydraulics and Pneumatics</td>
<td>4</td>
</tr>
<tr>
<td>MT 220</td>
<td>Statics and Strength of Materials</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 68

Note: CT electives refer to CT 205, 210, 215, and 220. They are offered once every fourth semester.

Electro-Mechanical Technology

Associate in Applied Science Code 5376
Contact Persons: QC Campus, Glenn Saddoris, Ext. 5283; Jon Lambert, Ext. 5279 Rm. 2-156

This AAS degree program is a unique blend of electronic and mechanical courses. Electro-Mechanical Technology is structured to allow entry into a broad range of manufacturing occupations by including the subjects of electronics, computer automation, machining, mechanics, hydraulics, communication and social skills.

During the two-year study, the student is allowed to choose between emphasizing industrial automation or computer systems to meet their electronics requirement. Additional electronics subjects can include programmable controllers, microcomputers, computer networks, microcontrollers, electrical power control, data acquisition for product testing and sensor based control systems.

Mechanical topics include heat treat, statics and strengths, fluid power, force and stress calculations, CNC programming, mechanical design and manufacturing processes. All courses require significant mathematical preparation in applied algebra, trigonometry and some calculus.

Fire Service Officer

Associate in Applied Science Code 5022
Contact Person: QC Campus, Chris Bachelder, Quad-Cities Training Center, Ext. 5986

The Fire Service Officer curriculum is primarily designed for employed fire fighters and volunteer fire fighters who are seeking to upgrade job skills. The program will provide necessary skills, knowledge and competencies utilized in the management and operations of facilities, services, and personnel in the fire science field. Students will receive instruction which will allow them the opportunity to specialize, to increase job competency, to become promotable and to prepare for certification through the office of the Illinois State Fire Marshall. Students completing the recommended courses are well prepared to compete for positions in the fire science field.

FIRST SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HMT 100S</td>
<td>OSHA Regulations</td>
<td>3</td>
</tr>
<tr>
<td>FSO 112</td>
<td>Command Officer Management I</td>
<td>3</td>
</tr>
<tr>
<td>FSO 118</td>
<td>Fire Service Instructor I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 101</td>
<td>Elementary Spanish I</td>
<td>4</td>
</tr>
</tbody>
</table>

SECOND SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>Composition II OR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 132</td>
<td>Technical Writing I</td>
<td></td>
</tr>
<tr>
<td>FSO 114</td>
<td>Fire Prevention Principles</td>
<td>3</td>
</tr>
<tr>
<td>FSO 115</td>
<td>Tactics and Strategy I</td>
<td>3</td>
</tr>
<tr>
<td>FSO 212</td>
<td>Command Officer Management II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>Elementary Spanish II</td>
<td>4</td>
</tr>
</tbody>
</table>

THIRD SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSO 215</td>
<td>Fire Fighting Tactics and Strategy II</td>
<td>3</td>
</tr>
<tr>
<td>FSO 224</td>
<td>Command Office Management III</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Speech elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Science elective</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>
FOURTH SEMESTER SUGGESTED COURSES
FSO 218  Fire Service Instructor II  3
FSO 225  Command Officer Management IV  3
SOC 101  Principles of Sociology  3
Mathematics elective  3
Science elective  4

Minimum total hours required for degree 64

BOG degree candidates should see advisor.

Law Enforcement Technology

Associate in Applied Science Code 5049, Certificate Codes 5549, 5543
Contact Person: QC Campus, Richard Fiems, Quad-Cities Training Center, Ext. 5985

The Law Enforcement curricula are provided by the Department of Social, Behavioral, and Educational Studies at the Quad-Cities Training Center in East Moline.

A working knowledge of the criminal justice system is provided by the law enforcement courses in the curriculum, an understanding of human behavior is provided by the psychology and sociology courses, and the government courses provide knowledge of bureaucratic structure.

Students completing the recommended courses are prepared to compete for jobs in the criminal justice field at the local and state level. Those students desiring employment with federal law enforcement agencies usually need to complete a four-year bachelor's degree. Graduates of this program have done well in pursuing their bachelor’s degrees. They are also qualified to enter the private security field.

The certificate program is basically designed for persons presently employed in the criminal justice system. Many people now working in that field received no formal training for their job, and this certificate program is designed to provide them with the basic skills necessary to perform their jobs.

Criminal Justice (CRJU) and Law Enforcement (LAWN) courses are held at the Quad-Cities Training Center in East Moline. The other courses in the curriculum are taught at Black Hawk College's Quad-Cities Campus.

Those interested in a four-year bachelor's degree should enroll in the Law Enforcement Associate in Science degree program in the Transfer Programs section of this catalog on page 116.

Private Security Certificate Students completing the recommended course of study may find jobs as detectives, guards, merchant patrollers, armored car guards, and other protection and security jobs in the private sector. Employment opportunities are expected to increase much faster than average in both Illinois and the nation.
Manufacturing Technology

Associate in Applied Science Code 5252
Contact Person: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159

The Manufacturing Technology curriculum focuses on the development of a communicative, contributing and productive employee who can adapt to the demands of small manufacturing shops and larger employers equally. The curriculum is composed of a variety of courses that directly relate to the skills necessary for employment in the contemporary automated and computer integrated manufacturing arena. In addition to welding, machining and computer courses, considerable teamwork and people skills requirements are included.

Graduates of this program are generalists not specialists. They understand manufacturing processes, computer technology, communicate well and excel at group problem solving and teamwork. In addition, they are technicians. They can interpret a blueprint, measure and inspect products, machine, assemble, and perform quality control and assurance checks. Most important, they know how to learn new skills and are willing to work hard.

University transfer opportunities also exist through articulated agreements with specific universities. See a faculty advisor early in your career plans to discuss this option.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
CS 100 Introduction to Computers 3
MATH 103 Essentials of Technical Math 5
MT 104 Mechanical Blueprint Reading 3
MT 105 Manufacturing Processes I 5
WLD 120/121 or 122 Welding 2

SECOND SEMESTER SUGGESTED COURSES
*ENG 101 Composition I OR
COMM 100 Communication Skills 3
ET 102 Basic Electricity 3
MT 106 Manufacturing Processes II 5
MT 244 Computer Graphics 3
PSYC 110 Human Relations OR 3
PSYC 201 Industrial Technology

THIRD SEMESTER SUGGESTED COURSES
ENG 132 Technical Writing I 3
MT 200 Computerized Numerical Control 4
MT 210 Hydraulics and Pneumatics 4
MT 211 Manufacturing Economics 3
SPEC 114 Interpersonal Communications 3

FOURTH SEMESTER SUGGESTED COURSES
MT 215 Computer Aided Manufacturing (CAD) Programming OR 4
MT 230 Metallurgy and Heat Treatment
MT 240 Quality Control Inspection 3
MT 270 Integrated Manufacturing 3
MT 290 Manufacturing Practicum 2-4

Minimum total hours required for degree 64-66

Machine Tool Operations

Certificate Code 5657
Contact Persons: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159

Fundamentals learned include the operation of machines, including the lathe, vertical and horizontal mills, surface grinder, radial drill, and indexing equipment. Inspection tools and blueprint reading are also studied.

Job opportunities include production machine operator, inspector, and machinist or tool maker apprentice.

REQUIRED COURSES CREDIT HOURS
MT 104 Mechanical Blueprint Reading 3
MT 105 Manufacturing Processes I 5
MT 106 Manufacturing Processes II 5
MT 200 Computerized Numerical Control Processes 4

Minimum total hours required for certificate 17

Machine Tool Production

Certificate Code 5567
Contact Persons: QC Campus, Glenn Saddoris, Ext. 5283, Rm. 2-159

Fundamentals learned include the operation of machines, including the lathe, vertical and horizontal drills, surface grinder, radial drill, indexing equipment and CNC equipment. Shop math, inspection tools and blueprint reading and CNC programming are also studied. A major portion of this program transfers into an associate degree program.

Job opportunities include production machine operator, inspector, and machinist or tool maker apprentice.

REQUIRED COURSES CREDIT HOURS
CS 100 Introduction to Computers 3
MATH 103 Essentials of Technical Math 5
MT 104 Mechanical Blueprint Reading 3
MT 105 Manufacturing Processes I 5
MT 106 Manufacturing Processes II 5
MT 200 Computerized Numerical Control Processes 4
MT 213 Computerized Numerical Control Programming (Lathe) 4
MT 214 Computerized Numerical Control Programming 4
MT 215 Computer Aided Manufacturing (CAM) 4

Minimum total hours required for certificate 37
Microcomputer Support Specialist

**Associate in Applied Science Code 5078**

*Contact Persons: QC Campus, Don Mosier, Ext. 5278, Rm. 2-159; Jamie Hill, Ext. 5284, Rm. 2-152; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246*

Check with an adviser about the possible availability of certain curricula at the East Campus. Completion of the degree is currently available only at the Quad-Cities Campus.

The Microcomputer Support Specialist Associate in Applied Science degree is a multi-disciplinary degree designed to produce graduates who are well rounded in the following computer-related areas: networking, operating systems, applications software, troubleshooting and repair. Each individual also specializes in one of three supporting tracks: networking, applications software, or programming. The degree is designed such that an individual may complete one of the related certificate programs (Computer Operation and Equipment Repair or Network Technician), then complete the Microcomputer Support Specialist Associate's degree. Individuals may also enroll directly in the Microcomputer Support Specialist program without any prior coursework. The two-year course of study culminates in an Internship which provides valuable on-the-job experience.

Students will study a variety of operating systems so they can troubleshoot both state-of-the-art and older computer systems. They will learn to diagnose and repair basic computer problems as well as to upgrade computer systems and build a computer "from scratch." Students who choose the Networking track will be qualified to perform basic network administration. Students who choose the Application Software track will be qualified to provide extensive support to computer users related to the use of current word processing, spreadsheet, database, desktop publishing, and presentation graphics software. Students who choose the Programming track will have entry level programming skills in several current programming languages.

Students who complete this program will be qualified for such positions as PC Support Specialist, PC Technician, and Help Desk. Depending on choice of electives, they may also be qualified for Network Administrator or Computer Repair Technician.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Essentials of Technical Math</td>
<td>5</td>
</tr>
<tr>
<td>COER 112</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COER 116</td>
<td>Microcomputer Hardware</td>
<td>3</td>
</tr>
<tr>
<td>NETW 120</td>
<td>Basic Computer Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COER 110</td>
<td>Basic Electronics</td>
<td>3</td>
</tr>
<tr>
<td>COER 118</td>
<td>Computer Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>CIP 104</td>
<td>Introduction to Programming with BASIC OR</td>
<td>3</td>
</tr>
<tr>
<td>BE 170</td>
<td>Beginning Web Page Development</td>
<td>3</td>
</tr>
<tr>
<td>COMM 105</td>
<td>Essentials of English OR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course selected from one track (see tracks below)</td>
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**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 180</td>
<td>Business Communications</td>
<td>4</td>
</tr>
<tr>
<td>BA 110</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIP 166</td>
<td>Microcomputer Operating Systems II OR</td>
<td>3</td>
</tr>
<tr>
<td>COER 216</td>
<td>Advanced PC Hardware/A+ Prep</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course selected from one track (see tracks below)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course selected from one track (see tracks below)</td>
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**FOURTH SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Course selected from one track (see tracks below)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course selected from one track (see tracks below)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course selected from one track (see tracks below)</td>
<td>3</td>
</tr>
<tr>
<td>COER 125</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>NETW 190</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum hours required for degree: 61

**TRACKS**

**Application Software Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 145 A,B,C Information Processing I, II, III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BE 171</td>
<td>Web Software Development Tools</td>
<td>3</td>
</tr>
<tr>
<td>BE 264</td>
<td>Intro to Database Management</td>
<td>3</td>
</tr>
<tr>
<td>BE 247</td>
<td>Advanced Information Processing (Spring only)</td>
<td>3</td>
</tr>
<tr>
<td>BE 248</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CIP 230</td>
<td>Spreadsheet Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Programming Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIP 101</td>
<td>Introduction to Programming Logic</td>
<td>4</td>
</tr>
<tr>
<td>CIP 204</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIP 205</td>
<td>Advanced Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>CIP 226</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIP 260</td>
<td>Systems Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>CIP 104</td>
<td>Introduction to Programming with BASIC OR</td>
<td>3</td>
</tr>
<tr>
<td>BE 170</td>
<td>Beginning Web Page Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Networking Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NETW 125</td>
<td>Cisco I</td>
<td>3</td>
</tr>
<tr>
<td>NETW 145</td>
<td>Cisco II</td>
<td>3</td>
</tr>
<tr>
<td>NETW 165</td>
<td>Cisco III</td>
<td>3</td>
</tr>
<tr>
<td>NETW 185</td>
<td>Cisco IV</td>
<td>3</td>
</tr>
<tr>
<td>NETW 130</td>
<td>NT Network Administration OR</td>
<td>3</td>
</tr>
<tr>
<td>NETW 215</td>
<td>Windows Server</td>
<td>3</td>
</tr>
<tr>
<td>NETW 210</td>
<td>Windows Workstation OR</td>
<td>3</td>
</tr>
<tr>
<td>CIP 116</td>
<td>Microcomputer Operating Systems II OR</td>
<td>3</td>
</tr>
<tr>
<td>COER 216</td>
<td>Advanced PC Hardware/A+ Prep</td>
<td>3</td>
</tr>
</tbody>
</table>

Microsoft Certified System Engineer Track

*NETW 210 Windows Workstation | 3 |
*NETW 215 Windows Server | 3 |
*NETW 216 Windows Network Environment | 3 |
*NETW 217 Windows Directory Service | 3 |
*NETW 219 Designing Directory Services | 3 |
*NETW 220 Windows Security Design | 3 |
*NETW 221 Windows Network Design | 3 |

* Can substitute this course for COER 112

This is only a suggested program and would not be appropriate for every student. Students should always consult with an academic advisor in choosing a schedule best suited to their needs and abilities.
Microsoft Networking Engineer

Certificate Code 5649

Contact Persons: QC Campus, Michael Townsend, Ext. 5277, Rm. 2-155; Linda Lindaman, Ext. 5634, Rm. 1-353; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

This degree is offered only at the Quad-Cities Campus.

The Microsoft Networking Engineer Certificate program prepares students for entry into a network administration career supporting Microsoft operating systems. Students will plan, install, configure, administer, troubleshoot, and maintain a Microsoft network. Students will learn the vital network administrative skills of analyzing the business requirements for the network, designing a system architecture solution that meets business requirements, deploying, installing, and configuring the components of the system architecture, managing the components of the network on an ongoing basis, monitoring, and optimizing the components of the system architecture, and diagnosing and resolving problems regarding the components of the network.

This certificate will prepare students to achieve the Microsoft Certified Systems Engineer (MCSE) certification, a network industry certificate given by Microsoft Corporation. The MCSE is the premier industry certification for professionals who design and implement computer networks utilizing Microsoft operating systems. Microsoft certification is a leading credential that validates experience and skills to keep students competitive in today’s changing networking environment.

The primary objective of the Microsoft Networking Engineer certificate is to prepare the student for immediate employment in the network administration industry or for career enhancement in an existing job.

REQUIRED COURSES CREDIT HOURS
CS 100 Introduction to Computers 3
COER 112 Microcomputer Operating Systems 3
COER 116 Microcomputer Hardware 3
NETW 210 Windows Workstation 3
NETW 215 Windows Server 3
NETW 216 Windows Network Environment 3
NETW 217 Windows Directory Services 3
NETW 219 Designing Directory Services 3
NETW 220 Windows Security Design 3
NETW 221 Windows Network Design 3

Minimum hours required for certificate 30

Network Technician

Certificate Code 5578

Contact Persons: QC Campus, Michael Townsend, Ext. 5277, Rm. 2-155; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

This degree is offered only at the Quad-Cities Campus.

The Network Technician Certificate program prepares students for entry into the rapidly growing field of computer networking. Computer hardware, data communications, and networked systems are investigated and assessed. Students install, set up, diagnose, repair, and maintain computers, networking hardware and software in a hands-on environment. An internship in the second semester provides a valuable opportunity for on-the-job experience with skilled technicians.

Students who complete this program will be qualified for such positions as network administrator, network technician, and network support specialist.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
COER 112 Microcomputer Operating Systems OR
NETW 210 Windows Workstation 3
COER 116 Microcomputer Hardware 3
NETW 120 Basic Computer Networks 3
NETW 125 Cisco I (8 week session) 3
NETW 145 Cisco II (8 week session) 3

SECOND SEMESTER SUGGESTED COURSES
NETW 130 NT Network Administration OR
NETW 215 Windows Server 3
NETW 165 Cisco III (8 week session) 3
NETW 185 Cisco IV (8 week session) 3
NETW 190 Internship 3
COER 125 Seminar 1
CIP 166 Microcomputer Operating Systems 3

Minimum hours required for certificate 31
Welding

Certificate Code 5635
Contact Persons: East Campus, Roger Grundstrom, (309) 852-5671, Ext. 6234; Rm. B-116; QC Campus, Lowell Doerder, Ext. 5387, Rm. 3-351

The Welding Certificate Program is designed to enable the graduate to succeed in employment as a welder in industry. The graduate will be proficient in oxy-acetylene welding and cutting, arc welding, MIG and TIG welding. Students receive various levels of welding proficiency after successfully completing tests which measure their welding skills. Technician level skills are developed in courses such as blueprint reading, and measurement.

At the Quad-Cities Campus, courses are taught at the United Township High School facilities.

<table>
<thead>
<tr>
<th>FIRST SEMESTER REQUIRED COURSES</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103 Essentials of Technical Math</td>
<td>5</td>
</tr>
<tr>
<td>WLD 101 Intro to Arc Welding</td>
<td>0.5</td>
</tr>
<tr>
<td>WLD 102 Basic Arc Welding in the Flat Position</td>
<td>0.5</td>
</tr>
<tr>
<td>WLD 103 Arc Welding in the Flat and Horizontal Position</td>
<td>2</td>
</tr>
<tr>
<td>WLD 117 Arc Welding in the Vertical Position</td>
<td>2</td>
</tr>
<tr>
<td>WLD 118 Arc Welding in the Overhead Position</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER REQUIRED COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 109 Welding Blueprint Reading</td>
</tr>
<tr>
<td>WLD 120 Intro to MIG Welding</td>
</tr>
<tr>
<td>WLD 121 MIG Welding with Spray Arc Process</td>
</tr>
<tr>
<td>WLD 122 MIG Welding with Globular Transfer and Short Arc</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER REQUIRED COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 114 Basic Precision Measurement</td>
</tr>
<tr>
<td>WLD 125 TIG Welding</td>
</tr>
<tr>
<td>WLD 105 Oxy-Acetylene Welding and Cutting</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 25
Scott Community College Cooperative Programs

The following programs are offered cooperatively between Black Hawk College and Scott Community College. Students enroll at Black Hawk College and at Scott Community College. Courses are taught at the Scott Community College campus located in Bettendorf, Iowa. See Scott Community College Catalog for program details.

Students taking classes at Scott Community College should complete their assessment at Scott.

The contact person for residents of the Black Hawk College District who wish to enroll in these programs is Coleman Harris, 796-5179, Advising Center, Quad-Cities Campus.

Auto Collision Repair

Certificate Code 5650/Associate of Applied Science 5108
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Auto Collision Repair curriculum is a cooperative contract program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

Students acquire hands-on skills repairing damaged motor vehicles. Students will learn to straighten bent frames, remove dents, weld torn metal, and replace ruined parts. Body repair students work on both automobiles and small trucks in this training program. Students purchase their own tools to use in the actual repair of automobiles for laboratory projects.

Opportunities for employment upon completion of the program include employment in automobile dealerships, independent body repair shops, specialty paint shops, or as insurance adjusters/appraisers and technical service representatives. Salaries are usually set on an hourly rate, or sometimes a commission basis.

Associate of Applied Science

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
AR 100S Orientation and Safety 3
AR 105S Basic Metal Bumping and Repair 5
AR 110S Refinishing I 3
AR 115S Detail and Trim Service 2
WE 151S Welding Survey 2
EN 115S Communication Skills 3

SECOND SEMESTER SUGGESTED COURSES
AR 125S Non-Structural Panel Repair and Replacement 5
AR 130S Refinishing Principles 5
AR 135S Plastics Repair and Replacement 2
MA 115S Applied Math Topics 3
WE 161S Welding Systems and Techniques 2

SUMMER SEMESTER SUGGESTED COURSES
AR 139S Color Matching Concepts 5

THIRD SEMESTER SUGGESTED COURSES
AR 205S Structural Panel Repair and Replacement 5
AR 208S Suspensions and Steering 3
AR 229S Advanced Refinishing 2
WE 200S Advanced Welding Techniques 1

FOURTH SEMESTER SUGGESTED COURSES
AR 219S Electrical Service 4
AR 225S Estimating Shop Management 3
AR 235S Mechanical Service 3
AR 240S Lab Variable Elective 1-3
TEC 110S Computer Fundamentals for Technicians 3

Minimum total hours required for AAS degree 70

Certificate

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
WE 151S Welding Survey 2
AR 105S Basic Metal Bumping and Repair 5
AR 110S Refinishing 3
AR 115S Detail and Trim Service 2
EN 115S Communication Skills 3
AR 100S Orientation and Safety 3

SECOND SEMESTER SUGGESTED COURSES
AR 125S Non-Structural Panel Repair and Replacement 5
AR 130S Refinishing Principles 5
AR 135S Plastics Repair and Replacement 2
MA 115S Applied Math Topics 3
WE 161S Welding Systems and Techniques 2

SUMMER SEMESTER SUGGESTED COURSES
AR 140S Color Matching Concepts 5

Minimum total hours required for Certificate 40

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.
Aviation Concentration

Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Aviation Concentration is a cooperative program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

The Future Aviation Professionals of America project that by the year 2003, many of the major airlines will retire 60 to 70 percent of their currently employed pilots. Surveys have shown that the largest number of projected openings locally is for corporate pilots, followed by military pilots and charter service pilots.

Students enrolled in the Associate in Arts degree program will concentration in Aviation will receive flight training at the Mt. Joy Airport north of Davenport. Traditional classes will be held at SCC. Courses included everything needed to earn the commercial pilot’s license. Upon graduation, students will be ready for a job or may transfer to a four-year institution.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
EN 105  English Composition I 3
Math Elective  3-4
AV Private Pilot Ground School  3
AV Private Flight Training  2
Humans Elective  3

SECOND SEMESTER SUGGESTED COURSES
EN 110  English Composition II OR
Historical Perspective Elective
PC 110  College Physics I  4
AV Instrument Ground School  2
AV Instrument Flight Training  2
SP 105A Principles of Speech 3

THIRD SEMESTER SUGGESTED COURSES
Art Elective   3
EC 110  Economics - Macro 3-4
PSY 105 General Psychology OR 3
SO 100  Principles of Sociology 3
AV Commercial Pilot Ground School  2
AV Commercial Pilot Flight Training  2
SC 135A  Meteorology Weather & Climate 3

FOURTH SEMESTER SUGGESTED COURSES
Literature Elective  3
International Perspective Elective  3
Natural Science Elective  4
Computer Skills Elective  3
Health & Well-Being Elective  1
AV Advanced Rating Ground School  4
AV Advanced Rating Flight Training  1
Minimum total hours required for Degree  60-62

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

Culinary Arts Apprenticeship

Associate in Applied Science Code 5112
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Culinary Arts Apprenticeship is a cooperative program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

Apprenticeship is the classic training method for chefs and cooks, and is still used almost exclusively in Europe. In 1977, The American Culinary Federation adopted a formal method of incorporating apprenticeship, education, and culinary activities into one universal training program to be implemented in nearly 279 chapters across the country. Over 17,000 apprentices have successfully completed the training program. These programs are linked to each state Bureau of Apprenticeship and Training.

Since 1991, the program at Scott Community College has operated in conjunction with the American Culinary Federation's local chapter. The Chefs de Cuisine Association of the Quad Cities. Apprentices work at one of the chapter's 22 approved apprenticeship sites under the supervision of the Executive Chef to complete a total of 6000 hours on the job. On Monday of each week, the apprentice takes general education requirement classes and classes in Culinary Arts at Scott Community College and other selected class sites.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
CL 100S  Introduction to Food Service and Industry  2
CL 101S Sanitation and Safety  2
CL 130S Culinary Practicum I  3
General Education Elective  3

SECOND SEMESTER SUGGESTED COURSES
CL 102S  Basic Food Preparation  2
CL 140S  Culinary Practicum II  3
CL 208S  Purchasing  3
CL 204S  Nutritional Meal Planning  3

SUMMER SUGGESTED COURSES
CL 150S  Culinary Practicum III 1.5

THIRD SEMESTER SUGGESTED COURSES
CL 103S  Food Cost Accounting  3
CL 108S  Menu Planning and Sales Promotion  3
CL 160S  Culinary Practicum IV  3
CL 202S  Beverage Control  3

FOURTH SEMESTER SUGGESTED COURSES
CL 104S  Intermediate Food Preparation  3
CL 125S  Culinary Math  3
CL 230S  Culinary Practicum V  3

SUMMER SUGGESTED COURSES
CL 206S  Garde Manger  3
CL 210S  Industry Management for Chefs  3
CL 240S  Culinary Practicum VI  5

FIFTH SEMESTER SUGGESTED COURSES
CL 200S  Advanced Food Preparation  3
CL 250S  Culinary Practicum VII  3
Humans Elective  3
SIXTH SEMESTER SUGGESTED COURSES
CL 260S  Culinary Practicum VIII  3
CU 110S  Fundamentals of Baking  3
English Elective  3

SUMMER SUGGESTED COURSES
CU 270S  Culinary Practicum IX  1.5

Minimum total hours required for Degree  70.5

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

Dental Assisting

Certificate Code 5667
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Dental Assisting Certificate program is a cooperative program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

The Scott Community College Dental Assisting program is delivered in nine months of study culminating with a Certificate in Dental Assisting. The program is designed to develop personal, academic, and technical skills. It prepares students to assist in all facets of dental operatory, laboratory, and offices. Students will become proficient in the following areas:

1. four-handed dentistry, including identification and utilization of dental equipment, materials and instruments,
2. business office management,
3. infection control,
4. dental anatomy,
5. radiographic procedures, and
6. pharmacology and emergency procedures.

Dental assistants may be employed in dentists' offices, clinics, schools, hospitals, or the armed forces.

Diesel Technology

Associate of Applied Science Code 5406
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Diesel Technology curriculum is a cooperative contract program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

To complete this Associate of Applied Science degree program a student will take two years of hands-on vocational training to learn to maintain and repair heavy trucks, buses, small trucks, and some special vehicles. Emphasis is on maintenance of large engines, complex transmissions, differentials, air brakes, and other components. Students purchase their own tools to use in the actual repair of vehicles for laboratory projects.

Opportunities for employment upon program completion include work for trucking fleets, truck dealerships, independent repair shops, contractors, and industry. Salaries are set according to local pay scales.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
Module I
AT 100S  Applied Math and Physics  4
AT 112S  Shop Safety and Orientation  1
AT 120S  Engine Repair  4
Module II
DS 210S  Hydraulics  2
DS 236S  Heavy Duty Drive Train I  3
DS 240S  Heavy Duty Drive Train II  3
EN 100S  Technical Reading OR  3
EN 115S  Communication Skills

SECOND SEMESTER SUGGESTED COURSES
Module III
AT 102S  Basic Electricity/Electronics  3
AT 105S  Automotive Electrical I  3
Module IV
DS 205S  Truck Electrical Systems  3
DS 212S  Diesel Fuel Systems I  3
DS 233S  Diesel Fuel Systems II  4

SUMMER SESSION I SUGGESTED COURSES
DS 109S  Diesel Engine Repair  5
DS 138S  Heating, Air Conditioning & Refrigeration  4

THIRD SEMESTER SUGGESTED COURSES
Module V
AT 128S  Engine Performance  4
CP 202S  Coop Experience  2
Module VI
DS 222S  Heavy Duty Brakes and Service  3
WE 155S  Welding  2
Humanities Elective  3

Minimum total hours required for Certificate  39

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.
FOURTH SEMESTER SUGGESTED COURSES

Module VII
CP 202S Coop Experience  2
DS 227S Heavy Duty Alignment and Driving  3

Module VIII
DS 250S Automatic Drive Train  5
TEC 110S Computer Fundamentals for Technicians  3

Minimum total hours required for Degree  72

* Students may take Professional Development during three different semesters for a total of 3 credit hours or 3 credit hours of general education to satisfy this elective requirement.

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

Electroneurodiagnostic (END) Technology

Associate of Applied Science Code 5190
Contact Person: QC Campus, Coleman Harris, Ext. 5179
Advising Center

The Electroneurodiagnostic (END) Technology curriculum is a cooperative program taught at Scott Community College in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

This 70 credit hour program of study takes four semesters and two summer sessions to complete. The sequence of study begins only in the fall.

END technologists evaluate the extent of injury for patients suspected of having brain tumors, strokes, metabolic disorders or epilepsy. These technologists measure the effects of infectious diseases on the brain and determine whether individuals with mental or behavioral problems have an organic impairment such as Alzheimer’s disease. END technologists use special procedures including the standard Electroencephalogram (EEG), evoked potential studies, sleep studies and brain wave mapping. Evoked potential studies, for example, are useful for evaluating visual, auditory, and other sensory systems as well as multiple sclerosis. Sleep studies help in the treatment of sleep disorders such as apnea, myotonia, impotence, etc.

Before producing the EEG, technologists record the patient's medical history and helps the patient to relax. They then apply electrodes to specific spots on the patient's head and body and make sure the instruments are working correctly. Technologists can recognize abnormal brain wave patterns and correct any artifacts of the testing. They must relay results to the physician. Technologists may also work with a surgical team and evaluate EEG activity during surgical procedures.

In addition, END technologists may manage the EEG laboratory, arrange work schedules, keep records, schedule appointments, order supplies, supervise staff, monitor the quality of treatment procedures and teach correct EEG techniques.

Employment opportunities for electroneurodiagnostic technologists are expected to grow faster than average. The graduate of this program may, however, need to relocate to tap into job openings available in other regions of the state or nation.

Minimum total hours required for degree  70

This is only a suggested program and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

Environmental Compliance and Technology

Associate in Applied Science/Certificate Codes 5089, 5517
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Environmental Compliance and Technology curriculum is a cooperative program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

The Environmental Compliance and Technology program prepares individuals for entry level jobs that provide technical support on handling hazardous materials for a company or agency. This support includes preparing permit applications, interpreting regulations for applicability)monitoring control equipment, acting as a liaison with regulatory agency personnel, responding to a chemical emergency, implementing
worker "right-to-know" training and maintaining good relations with industrial and community neighbors.

All classes are offered on line.

Also available is a certificate program geared especially for people already established in the industry.

**Certificate**

- EV 105S  Characteristics of Hazardous Materials  3
- EV 200S  Waste and Remediation  3
- EV 205S  Air and Water Quality  3
- EV 211S  Contingency Planning and Incident Management  4
- EV 225S  Legal Aspects of Occupational Safety & Health  3
- EV 230S  Transportation of Hazardous Materials  3
- EV 250S  Special Topics (Ergonomics and Fire Prevention)  4
- EV 270S  Sampling and Monitoring Procedures  4
- EV 275S  Worker Compensation/Incident Investigation  3
- EV 280S  Hazardous Materials Health Effects  3
- EV 285S  Industrial Hygiene  3

Minimum total hours required for certificate 18

Students may choose certificates with either an environmental or a safety emphasis with assistance from their advisor to reach the required 18 semester hours for their personalized certificate.

**Associate of Applied Science**

**FIRST SEMESTER SUGGESTED COURSES**

- EN 105S  English Composition I OR 3
- EN 103S  Technical Communication 3
- Math Elective 100 level or higher 3
- CH 110S  Basic Chemistry 4
- EV 100S  OSHA Regulations 3
- EV 105S  Characteristics of Hazardous Materials 3

**SECOND SEMESTER SUGGESTED COURSES**

- CH 115S  Basic Organic and Biological Chemistry 4
- SC 152S  Environmental Science 4
- EN 112S  Composition II: Technical Writing OR 3
- EN 110S  Composition II 3
- EV 200S  EPA Regulations I Waste and Remediation 3
- SP 105S  Principles of Speech 3

**THIRD SEMESTER SUGGESTED COURSES**

- EV 110S  Industrial Processes 3
- EV 205S  EPA Regulations II Air and Water Quality 3
- EV 225S  Aspects of Occupational Safety 3
- Humanities/Social Science Elective 3

**FOURTH SEMESTER SUGGESTED COURSES**

- EV 211S  Contingency Planning/Incident Management 4
- EV 230S  DOT Regulations 3
- EV 270S  Sampling and Monitoring Procedures OR 4
- EV 250S  Ergonomics and Fire Prevention 4
- EV 275S  Worker Compensation/Incident Investigation 3
- EV 280S  Hazardous Materials Health Effects 3
- EV 285S  Industrial Hygiene 3

Minimum total hours required for degree 65

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

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**Heating, Ventilating and Air Conditioning**

**Associate of Applied Science Code 5101/Certificate Code 5711**

**Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center**

The Heating, Ventilating and Air Conditioning curriculum is a cooperative contract program taught at Scott Community College (SCC) in Bettendorf, Iowa. This sequence of study begins only in the fall. Students enroll as Black Hawk College students but take courses at SCC. Students should complete assessment at SCC.

Students in Heating, Ventilating and Air Conditioning acquire hands-on skills in repair and installation of air conditioning and refrigeration systems. The nature of the work includes installing motors, compressors, and evaporators following blueprint and design specifications. Work includes connecting duct work, refrigerant lines, piping and electrical power service. Students must purchase their own tools to use in the actual repair of refrigerant systems as they perform the laboratory projects.

Opportunities for employment upon completion of this program may include residential/commercial facilities where climate and environmental control is required. Graduates may work as domestic and commercial service technicians, heating and ventilation specialists, and manufacturing plant technicians.

**Associate of Applied Science Degree**

**FIRST SEMESTER SUGGESTED COURSES**

- HV 102S  Refrigeration Fundamentals 5
- HV 107S  Basic Electricity for HVAC Technicians 5
- HV 110S  Trade Skills I 3
- EN 115S  Communication Skills 3

**SECOND SEMESTER SUGGESTED COURSES**

- HV 112S  Domestic Heating and Air Conditioning 5
- HV 115S  Trade Skills II 3
- HV 117S  HVAC Controls and Circuitry 5
- HV 245S  Residential Industry Exam 1
- MA 115S  Applied Math Topics 3

**SUMMER SESSION COURSES**

- HV 199S  Domestic Heating and Conditioning Applications 5
- HV 254S  Professional Development for HV 2

**THIRD SEMESTER SUGGESTED COURSES**

- HV 241S  Environmental Controls and Equipment 5
- HV 211S  Advanced Sheetmetal Appl. 3
- HV 219S  HVAC Management and Business Fundamentals 3
- General Education Elective 3

**FOURTH SEMESTER SUGGESTED COURSES**

- HV 229S  Light Commercial Refrigeration 6
- HV 265S  Control Systems for HVAC 5
- HV 251S  Computer-Aided Control System Design 3
- HV 260S  Light Commercial Competency Exam General Education Elective 3

Minimum total hours required for degree 71

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.
Certificate

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
HV 102S Refrigeration Fundamentals  5
HV 107S Basic Electricity for HVAC  5
HV 112S Domestic Heating  5
HV 117 HVAC Controls and Circuitry  5

Minimum total hours required for Certificate  20

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

Interior Design

Associate of Applied Science Code 5014
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

The Interior Design curriculum is a cooperative contract program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College students but take courses at Scott Community College. Students should complete assessment at SCC.

Students in this program will have two years of class work and on-the-job training involving color coordination, materials, drawing, display, textiles and landscaping.

Opportunities for employment include work with interior designers in retail home furnishings establishments such as department stores, furniture stores, paint/floor covering shops, drapery establishments, and accessory shops.

FIRST SEMESTER SUGGESTED COURSES  CREDIT COURSES
BU 118S Business Math  3
ID 105S Color Theory  3
ID 109S Basic Design  3
ID 110S Architectural Systems and Graphics  4
ID 116S Materials I  4
General Elective  3

SECOND SEMESTER SUGGESTED COURSES
ID 120S Materials IT  3
ID 127S History of Decorative Arts I  3
ID 130S Interiors I  3
ID 135S Marketing/Interior Designers  3
ID 140S Presentation Graphics  3

SUMMER SESSION SUGGESTED COURSE
ID 200S Field Project  4
*General Education or Design Elective  6

THIRD SEMESTER SUGGESTED COURSES
ID 205S Kitchen-Bath Design and Lighting  4
ID 210S Interiors II  3
ID 228S History of Decorative Arts II  3
ID 255S 3-D CAD for Interior Designers  2
General Education Electives  3

FOURTH SEMESTER SUGGESTED COURSES
ID 215S History of 20th Century Art and Architecture  4
ID 220S Contract Interiors  4
ID 230S Interiors III  3
ID 260S Codes for Interiors  1
General Education Elective  6

Minimum total hours required for degree  72

*Design Electives:
ID 235S Display Technique  2
ID 240S Textile Design  3
ID 245S Three Dimensional Design  2
ID 250S Interior and Exterior Landscaping  2

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.

Sign Language Interpreter

Associate of Applied Science Code 5183
Contact Person: QC Campus, Coleman Harris, Ext. 5179, Advising Center

Interpreter Training is a cooperative program taught at Scott Community College. The AAS degree in interpreter training leads to employment as an interpreter for the deaf in schools, churches, banks, meetings, etc. Most interpreters work part-time. Some positions require additional education or background in a given field in addition to interpreter training. This curriculum does not prepare students to work as medical interpreters.

Associate of Applied Science Degree

FIRST SEMESTER SUGGESTED COURSES
DR 120S Acting I  3
EN 105S Composition I OR
EN 115S Communication Skills  3
IN 110S American Sign Language I  5
IN 150S English Vocabulary/Grammar for Interpreters  4
IN 180S Orientation to Deafness  4

SECOND SEMESTER SUGGESTED COURSES
IN 120S Introduction to Language  3
IN 130S Interpreting I  4
IN 140S American Sign Language II  5
IN 160S Deaf Culture  4

SUMMER SESSION
Humanities & Fine Arts Elective  3
PY 115S Human Growth and Development  3

THIRD SEMESTER SUGGESTED COURSES
BU 118S Business Math  3
IN 171S Interpreting II  4
IN 210S American Sign Language III  5
IN 220S Translation I  4
IN 240S Practical Issues  3

FOURTH SEMESTER SUGGESTED COURSES
IN 225S Transliteration II  3
IN 250S American Sign Language IV  4
IN 270S Practicum (80 contact hrs. x 2 cr. hrs. = 160)  2
IN 280S Interpreting Skills Lab  3

Minimum total hours required for degree  72

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.
**Truck Driving**

*Certificate Code 5611*

*Contact Persons: QC Campus, Coleman Harris, Ext. 5179, Advising Center, East Campus, David Harris, Ext. 6268, BMA-202*

The Truck Driving certificate is a cooperative contact program taught at Scott Community College (SCC) in Bettendorf, Iowa. Students enroll as Black Hawk College but take classes at SCC.

New day and evening sessions begin every nine weeks from March through November.

To complete this program, a student will take ten weeks of study including 64 hours of lecture time plus 240 driving hours to develop the necessary skills. The nine credit hour curriculum includes DOT rules and regulations, safety, license requirements, billings, refrigeration unit operation, hazardous hauling regulations, truck maintenance, brakes, CPR, inspection, start up procedures, gears/clutching, turning, parking, city/highway driving and dock operations. Students pay tuition and lab fees including a truck care and maintenance fee.

Opportunities for employment upon completion of the program are excellent and there are openings in the immediate Quad-Cities area. Scott Community College provides names of companies and firms who hire licensed truck drivers on a continual basis. In addition, long haul drivers are in demand for nationwide delivery, salaries are negotiable with individual firms.

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<thead>
<tr>
<th>SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>TD 100S   Commercial Driver's License Regulations</td>
<td>2</td>
</tr>
<tr>
<td>TD 105S   Commercial Vehicle Operations</td>
<td>7</td>
</tr>
</tbody>
</table>

Minimum total hours required for certificate 9

This is a suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to their needs and abilities.
Lincoln Land Community College Cooperative Program

Aviation Mechanics Program

Associate in Applied Science Code 5L01
Contact Persons: QC Campus, Ext. 5100, Advising Center; Dave Green, Lincoln Land Community College, (217) 786-2406 or (800) 544-4963

In 1995, Black Hawk College joined Lincoln Land Community College’s consortium to offer the first year of the Aviation Maintenance Program. Students attend first-year classes at Black Hawk, then complete the remaining technical training at Springfield’s Capital Airport. The technical portion can be completed in one and a half years or less. On completing the program, graduates are eligible to obtain certification from the Federal Aviation Administration (FAA) by taking the examination. Graduates may also use the Associate in Applied Science degree to fulfill some requirements for a four-year undergraduate degree.

Aircraft technicians repair, inspect, and perform scheduled maintenance on aircraft, aircraft engines, and propellers. They ensure safe operation for the airframe and the engine (power plant) of the aircraft, performing inspections required by the FAA.

There is currently a shortage of qualified Aviation Mechanics and the demand is expected to remain high for at least the next ten years.

Most entry-level salaries range from $20,000 to $25,000, with top entry-level salaries of approximately $35,000 for non-supervisory positions. Salaries can go as high as $50,000 depending on seniority. Salaries near large airports are the highest.

Aircraft technicians may become crew chiefs, inspectors, and shop supervisors. Some advance by acquiring abroad range of knowledge and gaining recognition for outstanding skills. Skilled aircraft technicians may work m general aviation or accept positions with individual airlines. Some technicians become supervisors, executives, or FAA inspectors.

Because this is a cooperative program, students need to apply for admission to Lincoln Land Community College and to secure their financial aid through LLC. See your advisor for the forms.

Courses in the first year are taken at Black Hawk College

FIRST YEAR COURSES CREDIT HOURS
ENG 101 Composition I OR 3
COM 100 Communication Skills
ENG 102 Composition II OR 3
ENG 132 Technical Writing
POLS 251 American National Government 3
MATH 103 Essentials of Technical Math 5
PHYS 200 Technical Physics OR 4
PHYS 140 Practical Physics 3
MT 244 Computer Graphics 3

First Year Credit Hour Total 20-21

Technical courses are taken at the Capital Airport in Springfield, Illinois. Students interested in the technical courses only can bypass the first year and prepare for the FAA certification exam by successfully completing two years at the Institute of Aviation. Technical course sequence begins in the Fall semester.

This Program offers nighttime and daytime schedules. AVI coursework is for full-time work only.

COURSES CREDIT HOURS
JND 199 Independent Study 2
(Mathematical/Physical applications for Aircraft Mechanics)*
AVI 147 Federal Aviation Regulations 3
AVI 100 Aviation Tech 3
AVI 143 Materials and Processes I 4
AVI 151 Aircraft Materials and Processes II 2
AVI 145 Aircraft Electrical 3
AVI 169 Aircraft Systems I 4
AVI 170 Aircraft Systems II 5
AVI 172 Aircraft systems III 4
AVI 165 Aircraft Fabricating Processes I 4
AVI 163 Aircraft Materials and Processes III 3
AVI 174 Aircraft Assembly and Inspection 5
AVI 142 Reciprocating Powerplant Theory 3
AVI 144 Turbine Powerplant Theory 3
AVI 154 Powerplant Systems I 4
AVI 152 Powerplant Systems II 4
AVI 156 Powerplant Systems III 3
AVI 157 Powerplant systems and Testing 7

Minimum total hours required for Degree 84-87
Certificate of Course Completion

Black Hawk College issues certificates of course completion to students who successfully complete a series of courses designed to achieve the individual’s academic goals. Included among these certificates of completion are the following:

- English as a Second Language (See page 80)
- International Studies Certificate

International Studies

Certificate

The certificate in international studies provides an opportunity for increased global awareness and the proficient development of a foreign language. To further develop expertise about cultures and languages of other nations, the student is encouraged to study abroad.

The certificate requires successful completion of 20 credit hours from the following courses. The student must successfully complete at least one year of foreign language.

<table>
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<tr>
<th>SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>ART 285</td>
<td>3</td>
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<tr>
<td>ARCH 203</td>
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<tr>
<td>ECON 270</td>
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<td>ENG 217</td>
<td>3</td>
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<td>ENG 218</td>
<td>3</td>
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<tr>
<td>ENG 219</td>
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<tr>
<td>FREN 101</td>
<td>4</td>
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<tr>
<td>FREN 102</td>
<td>4</td>
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<tr>
<td>GERM 101</td>
<td>4</td>
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<td>GERM 102</td>
<td>4</td>
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<tr>
<td>POLS 258</td>
<td>3</td>
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<td>POLS 262</td>
<td>3</td>
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<td>HIST 151</td>
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<td>ITAL 101</td>
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<td>ITAL 102</td>
<td>4</td>
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<td>JAPN 101</td>
<td>4</td>
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<td>JAPN 102</td>
<td>4</td>
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<tr>
<td>MUSC 158</td>
<td>3</td>
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<tr>
<td>RUSS 101</td>
<td>5</td>
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<tr>
<td>RUSS 102</td>
<td>5</td>
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<tr>
<td>SPAN 101</td>
<td>4</td>
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<tr>
<td>SPAN 102</td>
<td>4</td>
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<tr>
<td>SPEC 175</td>
<td>3</td>
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</tbody>
</table>

OR

Courses available through Study Abroad
Transfer Programs

The Transfer Programs are two-year courses of study leading to an Associate in Arts (AA) or an Associate in Science (AS) degree. The programs prepare students to transfer to four-year colleges or universities offering bachelor's degrees. Students preparing to transfer should be aware of the following:

The Compact Agreement

Black Hawk College has an explicit agreement with a number of four-year colleges and universities which simplifies the transfer from Black Hawk. According to the agreement, Associate in Arts or Associate in Science degree graduates from Black Hawk may enter these schools with both junior status and the assurance that they have met all lower division general education requirements of that school.

Graduating at Black Hawk

Because of the Compact Agreement, the four-year schools mentioned above strongly urge all AA and AS students to graduate from Black Hawk College before transferring to a four-year school. Students who do not graduate before transferring will not receive the abovementioned benefits of the Compact Agreement and may, as a result, transfer with the need to complete additional coursework on the freshman-sophomore level.

Academic Advising

It is strongly recommended that students in the Transfer Programs ask an academic advisor for assistance in planning their course of study. Because four-year schools differ considerably in the courses which they require for specific majors, most students find that they really do need an advisor's help. To assist the academic advisor and further ensure ease in transfer, students should ideally make an early selection of the school to which they intend to transfer and secure a copy of that school's catalog. While an academic advisor can and will assist students in selecting the proper courses for their major, students are responsible for knowing the requirements for graduation in their major, both at Black Hawk and at the four-year school of their choice.

Degree Planning Worksheets

Degree Planning Worksheets are available in the Advisement Services to help students prepare for graduation from Black Hawk College. Students should go over this sheet with their academic advisors and use it for a personal record of all courses completed. This check sheet should be updated each semester so that students will be fully aware of their progress towards graduation.

Transfer Program Curricula.  The following are suggested program of study and would not be appropriate for every student. Students should always consult with an academic advisor in choosing courses best suited to the student’s needs and abilities. Please refer to the graduation requirements as identified on page 38. These requirements must be met and take precedence over suggested programs of study if there is a conflict.

Some courses may not be available at both campuses. Students should consult with an academic advisor for course availability.
Liberal Arts and Science Transfer Program

Liberal Arts and Science - Art Code 1035
Liberal Arts and Science - Science Code 1335
Contact Person: East Campus, Patty Varner, Ext. 6222, Rm. A-102, and Wendy Feldner, Ext. 6226, Rm. A-247
QC Campus, Heather Holding, Ext. 3310, Rm. 3-350

Students who intend to transfer to a four-year college or university should meet with their academic advisor to select courses appropriate for their major at a specific four-year college or university. Students who are undecided about their major or whose goals cannot be readily fulfilled by one of the other curricula outlined in this catalog should follow one of the curriculum model on this page. This suggested model provides a guideline for scheduling courses to receive an Associate in Arts degree or an Associate in Science degree at Black Hawk College.

The first two years of a baccalaureate degree at a four-year college or university are devoted primarily to general education courses. Usually a small number of introductory courses for a specific major are taken during the first two years. Academic advisors work closely with students and the four-year colleges and universities to assure that suitable courses are scheduled.

### Associate in Arts or Associate in Science

<table>
<thead>
<tr>
<th>FIRST SEMESTER SUGGESTED COURSES</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>ENG 101  Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPEC 101  Principles of Speech Communications</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
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<td>Elective</td>
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<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>ENG 102  Composition II</td>
</tr>
<tr>
<td>Physical Science</td>
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<tr>
<td>Mathematics or Computer Science</td>
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<tr>
<td>Fine Arts</td>
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<tr>
<td>Elective</td>
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<tr>
<th>THIRD SEMESTER SUGGESTED COURSES</th>
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<tr>
<td>Humanities</td>
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<tr>
<td>Life Science</td>
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<tr>
<td>Social and Behavioral Sciences</td>
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<tr>
<td>Elective</td>
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<tr>
<th>FOURTH SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>Humanities or Fine Arts</td>
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<tr>
<td>Social and Behavioral Sciences</td>
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<tr>
<td>Non-Western Studies</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

Minimum total hours for degree 64

Accounting Transfer

Associate in Arts Code 1001
Contact Persons: QC Campus, Paula Tigerman, Ext. 5323, Rm. 1-359; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

The Accounting Transfer degree is offered through the Department of Business. Courses are taught to prepare the students to transfer to a four-year college and earn a bachelor's degree in accounting. Basic business courses taught include accounting, economics, business law, and statistics.

Job opportunities for accountants after the receipt of a four-year degree or more have been very strong in the past and are likely to grow. Jobs can be secured in all levels of government, in industry, and both public and private accounting. A CPA certificate or accreditation in accounting is encouraged for those who wish to advance in the field.

Students seeking a one- or two-year degree in accounting should see the Career Program listings for accounting on page 62 of this catalog.

<table>
<thead>
<tr>
<th>FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS</th>
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<tbody>
<tr>
<td>ENG 101  Composition I</td>
</tr>
<tr>
<td>Humanities</td>
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<tr>
<td>Physical Science</td>
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<tr>
<td>CS 100  Introduction of Computers</td>
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<tr>
<td>SPEC 101  Principles of Speech Communications</td>
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<table>
<thead>
<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>ACCT 101  Financial Accounting</td>
</tr>
<tr>
<td>ACCT 103  Financial Accounting Lab</td>
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<tr>
<td>PSYCH 101  Introductory Psychology OR</td>
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<tr>
<td>SOC 101  Principles of Sociology</td>
</tr>
<tr>
<td>ENG 102  Composition II</td>
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<tr>
<td>Humanities or Fine Arts</td>
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<tr>
<td>MATH 131  Finite Mathematics for Business</td>
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</tbody>
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<table>
<thead>
<tr>
<th>THIRD SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>ACCT 102  Managerial Accounting</td>
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<td>ACCT 104  Managerial Accounting Lab</td>
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<tr>
<td>ECON 221  Principles of Macro Economics</td>
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<td>MATH 228  Probability and Statistics</td>
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<tr>
<td>Life Science</td>
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<tr>
<td>MATH 132  Mathematical Analysis for Business</td>
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<tr>
<th>FOURTH SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>ACCT 205  Principles of Cost Accounting</td>
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<tr>
<td>ECON 222  Principles of Micro Economics</td>
</tr>
<tr>
<td>BL 201  Business Law I OR</td>
</tr>
<tr>
<td>BL 202  Business Law II</td>
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<tr>
<td>Fine Arts</td>
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<tr>
<td>Non-Western Studies</td>
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</tbody>
</table>

Minimum total hours required for degree 64

- Students may need to take MATH 112 before enrolling in MATH 131.
- Students enrolling in this course must have completed or be currently enrolled in ENG 101 or equivalent and be eligible to enroll in MATH 112.
- Consult an advisor.
Agriculture Transfer

Associate in Science Code 7519
Contact Person: East Campus, Lee Denzer, Ext. 6251, Rm. B-224; Patty Varner, Ext. 6222, Rm. A-102

Students who plan to complete a bachelor's program with a major in agriculture are encouraged to enroll in the Agriculture Transfer Program at Black Hawk College East Campus.

All East Campus courses have been articulated with the four Illinois universities which offer degrees in agriculture including: Illinois State University (Normal), Southern Illinois University (Carbondale), Western Illinois University (Macomb), and University of Illinois (Champaign/Urbana).

These articulation agreements allow students completing the associate degree in agriculture to continue their education at these four-year institutions without loss of credits. Many BHE agriculture graduates have successfully transferred to universities across the country, such as Purdue, Iowa State, Michigan State, Oklahoma State, Kansas State, Colorado State, and Texas A & M.

Students should work closely with an academic adviser to plan a two-year program designed for successful transfer of credits.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
AG 100  Introduction to Agriculture  1
ENG 101  Composition I  3
Life Science  4
Humanities OR Fine Arts  3
*AG Electives  4

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II  3
Physical Science  4
SPEC 101  Principles of Speech Communication  3
Mathematics  3
*AG Electives  4

THIRD SEMESTER SUGGESTED COURSES
Mathematics OR Computer Science  3
Social and Behavioral Sciences  3
Humanities OR Fine Arts  3
Non-Western Studies  3
*AG Electives  4

FOURTH SEMESTER SUGGESTED COURSES
Social and Behavioral Sciences  3
Social and Behavioral Sciences  3
Humanities OR Fine Arts  3
*AG Electives  7

Minimum total hours required for degree  64

* A minimum of 20 elective hours in agriculture are required in the Agriculture Transfer Program. Suggested electives include: (Fall semester) AG 280, AG 281, AG 285, or AG 287; (Spring semester) AG 282, AG 283, HORT 284, AG 288, AG 289.

Anthropology-Archaeology

Associate in Arts Code 1034
Contact Persons: QC Campus, Karla Miley, Ext. 5411, Rm. 1-471; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in anthropology-archeology at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for an anthropology-archaeology major, students should consult with the Counseling Office at Black Hawk College for additional information.

This curriculum provides a broad perspective on the human condition and skills that are essential for any educated person. Students will learn the evolution of the human species and of the various cultural institutions that man has developed. In addition, they will study the methodologies employed by anthropologists and archaeologists to study human evolution. Students who complete this curriculum will have a solid foundation upon which to build an anthropology-archaeology major at a four-year school.

Students who complete a degree in anthropology and archeology may ultimately be employed in careers as teachers, college professors, or museum personnel. They may work on projects at anthropological and archaeological "sites" in this country or in exotic places around the globe from Kenya to Siberia.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
ANTH 101  Introduction to Physical Anthropology  3
HIST 120  Foundations of Western Culture  3
ENG 101  Composition I  3
SPEC 101  Principles of Speech Communications  3
PHYSICAL SCIENCE  3-4

SECOND SEMESTER SUGGESTED COURSES
ANTH 102  Introduction to Cultural Anthropology  3
HIST 121  Emergence of Western Culture  3
ENG 102  Composition II  3
LIFE SCIENCE  3-4
Elective  3

THIRD SEMESTER SUGGESTED COURSES
ARCH 203  Introduction to Archaeology  3
ART 281  History of Art  3
SOCIOL 101  Principles of Sociology  3
Mathematics  3
Electives  4

FOURTH SEMESTER SUGGESTED COURSES
ARCH 204  Archaeology in the Americas  3
HIST 222  Comparative Religions  3
CS 100  Introduction to Computers  3
ELECTIVES  3

Minimum total hours required for degree  64

*Recommended: GEOG 101 or 102; GEOL 101 or 102
*Recommended: BIOL 190 or 211
*Recommended: Arch 205
Art

Associate in Arts Code 1002
Contact Persons: QC Campus, David Murray, Ext. 5471, Rm. 4-132; East Campus, John Hartman, Ext. 6233, Rm. 4-100

Students planning to major in art at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for an art major, students should consult with the Counseling Office at Black Hawk College for additional information.

A variety of instructional formats provide opportunities for both full and part-time students to develop the skills that meet the changing demands of this profession. Small classes enhance the educational environment and enable the student to develop technical proficiency as well as personal style. The uniqueness of each individual is stressed. Prospective students are eligible for merit awards based on a portfolio review prior to registration.

Students who wish to be a candidate for the Associate in Arts degree and plan to pursue a bachelor's degree in art will submit a portfolio of their work which meets the approval of the Art Faculty. The portfolio must include a complete representation of the student's period of study at Black Hawk College.

Art majors may enter careers such as display designer, graphic artist, media designer, commercial artist, studio artist, or teacher.

Black Hawk College reserves the right to exhibit and reproduce any work submitted by students for credit in art courses.

FIRST SEMESTER SUGGESTED COURSES
ART 101 OR ART 111 Visual Design 3
ART 121 Drawing and Drawing Theory 3
ENG 101 Composition I 3
Social and Behavioral Science 3
Physical Science 3

SECOND SEMESTER SUGGESTED COURSES
ART 111 OR ART 101 Visual Design 3
ART 122 Drawing and Drawing Theory 3
ENG 102 Composition II 3
Non-Western Studies 3
Life Science 4

THIRD SEMESTER SUGGESTED COURSES
ART 281 History of Art 3
ART 201 Life Drawing 3
Mathematics 3
SPEC 101 Principles of Speech Communications 3
Social and Behavioral Science 3

FOURTH SEMESTER SUGGESTED COURSES
ART 282 History of Art 3
Art Studio Elective 3
Art Studio Elective 3
Social and Behavioral Science 3
Mathematics or Computer Science 3
Humanities 3
Minimum total hours required for degree 64*

* The sequence of courses listed above will lead to the Associate in Arts degree at Black Hawk College. All transfer art students should take one additional studio elective to complete preparation for transfer. Please consult a member of the art faculty for additional information. Summer school may be an alternative to completing this curriculum.

Biological Science

Associate in Science Code 1520
Contact Persons: QC Campus, Allan Markezich, Ext. 5240, Rm. 2-267; East Campus, Janene Blodgett, Ext. 6752, Rm. B-214

Students planning to major in biology at a four-year institution should follow the Black Hawk College Associate in Science curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a biology major, students should consult with the Counseling Office at Black Hawk College and/or an academic advisor at the transfer university as soon as possible.

Students taking the recommended courses will receive instruction in the basic concepts of math, chemistry and biology, as well as acquiring the laboratory skills necessary for upper division studies in biology. In the biological sciences today, a good background in chemistry is especially important. The biology portion of the suggested curriculum will include molecular and cellular biology as well as the unifying concepts in biology such as development, ecology, and evolution. In the sophomore year, the student may select from such courses as botany, zoology, genetics, or environmental biology, depending upon his/her interest and career goals. The study of biology gives a person an appreciation of the biology of his/her own body, of other life forms, and of the earth's environment.

Students successfully completing this curriculum, as well as more advanced studies, may wish to consider such careers as teaching, research, museum work, environmental protection, or such applied areas as agriculture, wildlife management, horticulture, health related careers, or forestry.

Associate in Science Sequence

FIRST SEMESTER SUGGESTED COURSES
BIOL 105 General Biology I 5
CHEM 101 General Chemistry I 4
ENG 101 Composition I 3
MATH 108 Statistics for General Education 3

SECOND SEMESTER SUGGESTED COURSES
BIOL 106 General Biology II 5
CHEM 102 General Chemistry II 4
ENG 102 Composition II 3
Non-Western 3
SPEC 101 Principles of Speech Communications 3
THIRD SEMESTER SUGGESTED COURSES
CHEM 203  Organic Chemistry I OR 5
PHYS 101  General Physics
MATH 124  Calculus I 4
Humanities and Fine Arts (2 courses) 6
Social and Behavioral Science 3

FOURTH SEMESTER SUGGESTED COURSES
CHEM 204  Organic Chemistry II OR 5
PHYS 102  General Physics
Social and Behavioral Science (2 courses) 6
Humanities or Fine Arts 3

Minimum total hours required for degree 65

This curriculum meets the Illinois Articulation Agreement General Education Requirements for the Associate's degree.

Broadcasting

Associate in Arts Code 1046
Contact Person: QC Campus, Dolores Sierra, Ext. 5367, Rm. 3-373

Students planning to major in broadcasting at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a television broadcasting major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking the recommended courses will gain the basic skills necessary to work in a TV production studio. Students will find it to their advantage to continue on for a bachelor's degree if they desire to be an "on air" TV personality or a producer/director. Since speaking and writing skills are essential for advancement in the broadcast industry, courses developing these skills are emphasized.

Students who successfully complete a curriculum in TV broadcasting can find employment in broadcast stations, industrial video tape and audio-visual departments, hospital audio-visual facilities, and in advertising agencies.

Those students not planning to transfer to a four-year school should see the Broadcasting career curriculum on page 63.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
ENG 101  Composition I 3
SPEC 101  Principles of Speech Communications 3
TV 112  Computer Literacy for TV 2
TV 220  Introduction to Television 4
Humanities Elective 3
Elelective 1

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II 3
Mathematics 3
Social Science 3
TV 221  TV Production and Direction 4
TV 260  Broadcast Perspectives 3

THIRD SEMESTER SUGGESTED COURSES
Life Science (Lab Science) 4
Humanities or Fine Arts 3
PHYS 140  Practical Physics 3
Social and Behavioral Science 3
TV 215  Broadcast Writing 3

FOURTH SEMESTER SUGGESTED COURSES
Mathematics or Computer Science 3
Social and Behavioral Science 3
Non-Western Studies 3
TV 160  Introduction to Radio Broadcasting 4
TV 212  History and Appreciation of the Motion Picture 3

Minimum total hours required for degree 64

Business Transfer

Associate in Arts Code 1029
Contact Persons: QC Campus, James Johnson, Ext. 5248, Rm. 2-259; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

The Business Transfer degree is offered through the Department of Business. Courses are taught to prepare the students to transfer to a four-year college and pursue a bachelor's degree. Basic business courses taught include accounting, economics, business law, and statistics. Job opportunities following the receipt of a four-year degree can be in industry, government, and the service sector of our economy. Many opportunities exist for the quality student with good math, English, and communication skills, who can effectively make and communicate logical and intelligent decisions.

Students seeking a two-year degree in Business should see the listings for the Career Programs beginning on page 61.
### FOURTH SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 205</td>
<td>Principles of Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BL 201</td>
<td>Business Law I OR</td>
<td>3</td>
</tr>
<tr>
<td>BL 202</td>
<td>Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Micro Economics</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree: 64

Students may need to take MATH 112 before enrolling in MATH 131.
Students enrolling in this course must have completed or be currently enrolled in ENG 101 or equivalent and be eligible to enroll in MATH 112.
Consult an advisor.

### Business Transfer International Business

**Associate in Arts Code 1051**

**Contact Persons:** QC Campus, Marty Hanson, Ext. 1323, Rm. 1-LRC; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

The International Business degree is offered through the Department of Business. Courses are taught to prepare the student to transfer to a four-year college and pursue a bachelor's degree. This curriculum equips the student with an international awareness and provides an understanding of the global economy. This curriculum also develops fluency in foreign language of the student's choice. Finally, the student is made aware of differences and similarities of global business practices and ethics.

Various opportunities exist for the quality student with the combination of foreign language fluency and business skills.

The student is encouraged to participate in Black Hawk College’s Study Abroad program. Details of these opportunities are available from Marty Hanson on the Quad-Cities Campus.

### Chemistry

**Associate in Science/Associate in Arts Codes 1521, 1031**

**Contact Persons:** Linus Griswold, Ext. 5247, Rm. 2-260; East Campus, Alan Abbott, Ext. 6253, Rm. B-219

Students planning to major in chemistry at a four-year college should follow the Associate in Science curriculum. It is a rigorous, math oriented curriculum. The variety of analytical and synthesizing skills obtained from the listed courses place the student in a position to continue in chemistry and related sciences. Lab work complements the lecture material and gives the student practical applications of the theoretical lecture material.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 203</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>LIFE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>SPEC 101</td>
<td>Principles of Speech Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

**FOURTH SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 204</td>
<td>Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Humanities and Fine Arts Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Minimum total hours required for degree: 64

Note: Students wishing to take junior level chemistry courses after transferring to a four-year school may need MATH 226 and PHYS 202 as prerequisites.
Pre-Chiropractic

Associate in Science Code 1531
Contact Person: QC Campus, Darryl Beckett, Ext. 5239, Rm. 2-268

Graduates of the doctor of chiropractic program may choose to establish a private practice or they may choose to associate with another doctor in an established practice. According to the Occupational Outlook Handbook, job prospects for chiropractors is good. In fact, employment of chiropractors is expected to grow faster than other occupations as consumer demand for alternative medicine grows.

Entrance requirements for admission to Palmer College of Chiropractic (effective Fall semester 2001) are as follows:

1. Completion of 90 semester credit hours. It is recommended that 60 of these hours be completed at the 100 and 200 level, while at least 30 hours should come from 300 or 400 (junior or senior)level courses. Courses in science and communications are recommended for the 300 or 400 level.
2. A grade of "C" or better is required in all prerequisite courses.
3. A minimum grade point average of 2.5 on a 4.0 scale is required.
4. A minimum of 48 of the 60 semester hours at the 100 and 200level must be completed as listed below in the prerequisites for admission.
5. Consult with the BHC pre-chiropractic advisor to develop an appropriate course of study that will meet all course, application, and admission requirements.

PREREQUISITE COURSES FOR ADMISSION

*SCIENCE—A minimum of two semesters or the equivalent of one academic year in each science subject.

<table>
<thead>
<tr>
<th>Biology (with lab)</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 145 Anatomy/Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 146 Anatomy/Physiology II</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inorganic Chemistry (with lab)</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102 General Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Organic Chemistry (with lab)</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 203 Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 204 Organic Chemistry II</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHYS (with lab)</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101 General Physics</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYS 102 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 201 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 202 General Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

* Survey courses are not recommended in the sciences.

PSYCHOLOGY (3 credit hours)—Any college level course in psychology.

ENGLISH (6 credit hours or more)—Any college level course of English and/or communicative skills in the English language, including theatre, drama, and journalism.

SOCIAL SCIENCES AND/OR HUMANITIES (15 credit hours)—Course offerings in the following fields will satisfy this requirement:
- Anthropology
- English
- Philosophy
- Classics
- Fine Arts
- Political Science
- Communications
- Foreign Language
- Psychology
- Criminal Justice
- Geography
- Religion
- Economics
- Government
- Sociology
- Education
- History

(Courses used to satisfy requirements in English or Psychology cannot be used to also satisfy requirements in Social Sciences and/or Humanities.)

Other options are available but this is the recommended course of study.

Note: Students desiring to complete an Associate in Science degree in the pre-chiropractic curriculum must be certain that their course program includes 6 hours of Mathematics, 9 hours of Humanities and Fine Arts general education electives, 9 hours of Social Science general education electives, 3 hours in Non-Western Culture, and a Life Science general education elective, as well as those courses specified by Palmer College.

Computer Science Information Systems

Associate in Arts Code 1032
Contact Persons: QC Campus, Linda Lindaman, Ext. 5634, Rm. 1-353; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

Students planning to major in computer science with an information systems emphasis at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirement sat Black Hawk College. Since universities may require specific courses for a computer science major, students should consult with the Transfer Center at Black Hawk College and/or a computer science advisor for additional information. Those not planning to transfer to a four-year school should also see the Computer Information Processing curricula beginning on page 65.

The curriculum includes work with programming and problem analysis with applications from business and industry.

Students pursuing Computer Science-Information Systems are expected to complete the general requirements for the Associate in Arts degree, including ACCT 101, ACCT 102, ACCT 103, ACCT 104, CS 121, CS 140, ECON 221, ECON 222, MATH 131 and MATH 228.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
CS 121 Introduction to Computer Science 5
ENG 101 Composition I 3
MATH 131 Finite Mathematics 3
ECON 221 Principles of Macro Economics 3
Humanities Elective 3

SECOND SEMESTER SUGGESTED COURSES
CS 225 Advanced Programming 3
ENG 102 Composition II 3
MATH 228 Probability and Statistics 3
ECON 222 Principles of Micro Economics 3
Fine Arts 3
THIRD SEMESTER SUGGESTED COURSES
ACCT 101  Financial Accounting  3
ACCT 103  Financial Accounting Lab  1
SPEC 101  Principles of Speech Communication  3
Life Science  4
Social and Behavioral Science  3
* Technical Elective  3

FOURTH SEMESTER SUGGESTED COURSES
ACCT 102  Managerial Accounting  3
ACCT 104  Managerial Accounting Lab  1
Physical Science (Lab Science)  5
Humanities/Fine Arts  3
Non-Western  3
Minimum total hours required for degree  64

*Technical Elective At least 3 hours from the following, depending on the transferring school:
CIP 132  Introduction to COBOL Programming  4
CIP 204  Visual Basic Programming  3
MATH 161  Discrete Mathematics  3
CS 242  Computer Architecture  3
CS 252  Data Structures  3

Computer Science
Associate in Science Code 1532
Contact Persons: QC Campus, Linda Lindaman, Ext. 5634, 1-353; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

Students planning to major in computer science with a science emphasis at a four-year institution should follow the Black Hawk College Associate in Science curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a computer science major, students should consult with the Transfer Center at Black Hawk College and/or a computer science advisor for additional information. Those not planning to transfer to a four-year school should also see the Computer Information Processing curricula beginning on page 65.

The curriculum includes work with programming, problem analysis and simulation in C++, with applications from science, engineering, mathematics, business, and industry.

Students pursuing the Computer Science-Science curriculum are expected to complete the general requirements for the Associate in Science degree, including MATH 124, MATH 225, CS 121, CS 225, as well as technical electives based on requirements of the transfer institution.

Many of the courses needed to complete this curriculum are not available at the East Campus. Students should always consult with an academic advisor for course availability.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
CS 121  Introduction to Computer Science  5
ENG 101  Composition I  3
MATH 124  Calculus I with Analytic Geometry  4
SPEC 101  Principles of Speech Communications  3

SECOND SEMESTER SUGGESTED COURSES
CS 225  Advanced Programming  4
ENG 102  Composition II  3
MATH 225  Calculus II with Analytic Geometry  4
* Technical Elective  3
Social and Behavioral Science  3

THIRD SEMESTER SUGGESTED COURSES
* Technical Elective  3
Humanities  3
Non-Western Studies  3
Physical Science  4
Social and Behavioral Science  3

FOURTH SEMESTER SUGGESTED COURSES
* Technical Elective  3
Humanities or Fine Arts  3
Life Science  4
Fine Arts  3
Social and Behavioral Science  3
Minimum total hours required for degree  64

* Technical Electives: Consult advisor for requirements of specific transfer institutions.

Earth Science
Associate in Arts Code 1038
Contact Persons: QC Campus, Richard Harwood Ext. 5271, Rm. 2-215; East Campus, Wendy Boek, Ext. 6226, Rm. A-247

Students planning to major in earth science at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for an earth science major, students should consult with the Counseling Office at Black Hawk College for additional information.

The Associate in Arts Degree as listed, emphasizes the social aspects of earth science, the urban studies. The catalog of the four-year school chosen should be consulted for requirements to be met and the student's schedule adjusted accordingly.

Job possibilities include city, regional and rural planning; transportation and trade; surveying in relation to regional drainage, flora, fauna, climate and land forms; and consulting as to trade, territorial policies and international problems. It is not implied that only persons with a four-year degree will find employment in the above areas; the person with the associate degree in many cases will also find jobs available, but normally at a lower level.
Earth Science Geology

Associate in Science Code 1538
Contact Persons: QC Campus, Richard Harwood, Ext. 5271, Rm. 2-215; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in Geology at a four-year institution should follow the Black Hawk College Associate in Science curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a Geology major, students should consult with the Counseling Office at Black Hawk College for additional information.

The Associate in Science degree is a rigorous science-oriented curriculum which will allow the student to pursue a major in the earth sciences at a four-year school. It is essential that the student closely follow the schedule of courses unless the school of choice has different requirements. A variety of analytical and synthesizing skills are taught to prepare the student to continue study and work in the earth sciences. The lecture material and laboratory work complements the lecture material and teaches the student such practical applications as rock identification, map reading and weather analysis.

Job possibilities include environmental protection, geologic hazard assessment, research consulting, engineering and construction consulting, soil conservation, field work in natural resource management and research, natural resource production in petroleum, natural gas, coal, minerals, metals, stone and clay products. Employers include state and national geological survey departments, departments of agriculture, public utilities, the energy and natural resources industries, and educational and research institutions.

Education Pre-Teaching

Associate in Arts Codes 1014 and 1025
Contact Persons: Christine Bachelder, Quad-Cities Training Center, Ext. 5986; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in elementary or special education at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. Students planning to major in secondary education may follow the Black Hawk College Associate in Arts or Science curriculum, depending on the discipline in which they choose to major. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities require specific courses for an education major, students should identify the school of transfer early. All students should contact an advisor to determine the specific courses required for their programs. Students taking the suggested courses gain experience and information which help them determine whether or not their goals should remain in teacher certification programs.

Because requirements in all education curricula can often change and vary from institution to institution, students are urged to frequently consult a BHC advisor and transfer school contact to confirm appropriate course selection. All courses listed below are not appropriate for every transfer school.
Elementary Education or Special Education

**FIRST SEMESTER SUGGESTED COURSES**  
CREDIT HOURS
- ENG 101  Composition I  3
- Humanities  3
- Life Science  4
- PSYC 101  Introductory Psychology  3
- SPEC 101  Principles of Speech Communications  3

**SECOND SEMESTER SUGGESTED COURSES**
- ENG 102  Composition II  3
- Fine Arts  3
- POLS 251  American National Government  3
- HIST 251  History of the United States to 1865 OR  3
- HIST 252  History of the United States after 1865  3
- MATH 100  Math for Elementary Teachers I  3

**THIRD SEMESTER SUGGESTED COURSES**
- HPE 260  Physical Education Grades 1-6 OR  3
- MATH 200  Math for Elementary Teachers II  3
- Non-Western Studies  3
- Physical Science  4
- PSYC 200  Human Growth and Development OR  3
- PSYC 290  Educational Psychology  3

**FOURTH SEMESTER SUGGESTED COURSES**
- CS 210  Intro to Educational Computing  3
- EDUC 235  Clinical Observation in Education  2
- Fine Arts or Humanities  3
- HEAL 102  Living in a Changing World  2
- Life or Physical Science  4
- Elective  3

Minimum total hours required for degree  64

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**Secondary Education**

**FIRST SEMESTER SUGGESTED COURSES**  
CREDIT HOURS
- ENG 101  Composition I  3
- Humanities or Fine Arts  3
- SPEC 101  Principles of Speech Communication  3
- PSYC 101  Introductory Psychology  3
- Major Subject Course  3

**SECOND SEMESTER SUGGESTED COURSES**
- ENG 102  Composition II  3
- Fine Arts  3
- HIST 251  History of the United States to 1865 OR  3
- HIST 252  History of the United States after 1865  3
- Life Science  4
- Major Subject Course  3

**THIRD SEMESTER SUGGESTED COURSES**
- Mathematics  3
- Non-Western Studies  3
- Physical Science  4
- PSYC 200  Human Growth and Development OR  3
- PSYC 290  Educational Psychology  3
- Major Subject Course  3

**FOURTH SEMESTER SUGGESTED COURSES**
- EDUC 235  Clinical Observation in Education  2
- POLS 251  American National Government  3
- Humanities  3
- Life or Physical Science  3
- Mathematics or Computer Science  3
- Major Subject Course  3

Minimum total hours required for degree  64

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Pre-Engineering

*Associate in Science Code 1526*

**Contact Persons:** QC Campus, Doug Davidson, Ext. 5246, Rm. 2-261, and Matlub Ahmad, Ext. 5245, Rm. 2-262; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in professional engineering at a four-year institution which offers an engineering curriculum should follow the Black Hawk College Associate in Science curriculum listed here. The completion of the course of study outlined will satisfy the graduation requirements of the Black Hawk College Associate in Science degree for pre-professional engineering. This is a unique Associate in Science curriculum designed to meet the specific needs of students planning to pursue a four-year degree in professional engineering.

Universities to which Black Hawk College engineering students may transfer include Bradley University, University of Illinois, University of Iowa, Iowa State University, University of Missouri, Northern Illinois University, Southern Illinois University, University of Wisconsin (Platteville), and others.

The various fields of engineering (such as mechanical, electrical, computer science) require certain courses in common as well as specific courses applicable only to that field. Normally, the courses encountered in the first two years of study are common courses. Since universities may require specific courses, students should consult with the Natural Science and Engineering department at Black Hawk College for additional information.

Since employment varies greatly in various fields of engineering, students in their freshman and sophomore years should begin to give serious thought to both their field of engineering and to its application in the employment market.

Students who successfully complete the Bachelor of Science degree in engineering may enter such careers as design, production and construction, operations, sales, management, testing, teaching and consulting. Two other areas, research and development, require an advanced degree.

Students who do not plan to transfer to a four-year school and are interested in two-year Engineering Technology curricula should see the Engineering Technology Related Career curricula beginning on page 84.

**FIRST SEMESTER SUGGESTED COURSES**  
CREDIT HOURS
- CHEM 101  General Chemistry I  4
- ENG 101  Composition I  3
- GE 101  Engineering Graphics and Geometry  3
- MATH 124  Calculus I  4

**SECOND SEMESTER SUGGESTED COURSES**
- CHEM 102  General Chemistry II  4
- ENG 102  Composition II  3
- MATH 225  Calculus II  4
- Social Science/Humanities Elective  3
- Technical Elective  3
THIRD SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 201</td>
<td>Analytic Mechanics (Statics)</td>
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<tr>
<td>MATH 226</td>
<td>Calculus III</td>
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<tr>
<td>PHYS 201</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>✔️Social Science/Humanities Elective</td>
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FOURTH SEMESTER SUGGESTED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>GE 202</td>
<td>Analytic Mechanics (Dynamics)</td>
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<tr>
<td>PHYS 202</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>✔️Technical Electives</td>
<td>9-10</td>
<td></td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 64

- Chemical Engineering students substitute CHEM 203-204, Organic Chemistry I and II
- University of Illinois requires sequential courses, (i.e., ECON 221, 222) to satisfy their social science requirement.
- A minimum of two Technical Electives should be chosen from: GE 100, GE 102, GE 205, CS 251, MATH 230, MATH 235

Electrical engineering students may require additional courses in electrical circuits and digital systems.

University of Illinois requires PHYS 214 for most engineering programs.

Note: Students desiring to complete an Associate in Science degree in the pre-engineering curriculum must be certain that their course program includes 6 hours of Mathematics, 9 hours of Humanities and Fine Arts general education electives, 9 hours of Social Science general education electives, 3 hours in Non-Western Culture, and a Life Science general education elective, as well as those courses specified by institutions listed above. These general education electives must be chosen from the general education electives listed beginning on page 38.

English Literature

Associate in Arts Code 1005

Contact Persons: QC Campus, Dorothy Beck, Ext. 5426, Rm. 1-459; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in English at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined below will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for an English major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking the recommended courses will study a variety of literature courses from the American experience, British literature, world literature and/or non-western literatures in translation. These areas of studies include extensive reading of poetry, short stories, novels, drama, and appropriate criticism. Persons who have a background in literature can come to a greater appreciation of themselves and their culture through the study of the social themes these works include.

An understanding and appreciation of literature prepares one for a lifetime of continued learning. More specifically, such studies may lead to employment in the fields of teaching, publishing, and all areas of communication.

English Writing

Associate in Arts Code 1019

Contact Persons: QC Campus, Dorothy Beck, Ext. 5426. 1-459; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in English at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined below will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for an English major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking the recommended courses will write compositions, critical essays, technical reports, newspaper articles and poetry or fiction. Since employment opportunities as writers may come from many sources, the students with varied writing experiences will have the greatest opportunities. The writing internship is specifically designed to provide students with on-the-job experience and exposure to employers. Since writing skills are essential to continued advancement and higher paying positions in many career areas, the writing emphasis complements many career choices. These skills may also enrich personal lives of students as they read fiction, study films, interpret art forms, and write letters and reports.

English Writing students prepare for such careers as teaching, journalism, advertising, public relations, radio, TV, technical writing, business, and communication.
FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
ENG 101 Composition I  3
JOUR 222 Beginning Reporting  3
Fine Arts  3
Non-Western Studies  3
SPEC 101 Principles of Speech Communications  3

SECOND SEMESTER SUGGESTED COURSES
ENG 102 Composition II  3
ENG 132 Technical Reporting  3
ENG 214 American Literature II  3
PSYC 101 Introductory Psychology  3
Physical Science  3-4
Elective  3

THIRD SEMESTER SUGGESTED COURSES
ENG 231 Fiction Writing OR  3
ENG 232 Poetry Writing  3
Life Science  3-4
Mathematics  3
Social and Behavioral Science  3
THEA 111 Introduction to Theatre  3

FOURTH SEMESTER SUGGESTED COURSES
BIOL 106 General Biology II  4
ECON 222 Principles of Micro Economics  3
MATH 228 Probability and Statistics  3
ENG 132 Technical Writing I  3
HIST 222 Comparative Religions  3

Minimum total hours required for degree  64

French

Associate in Arts Code 1006
Contact Persons: QC Campus, Maria Concepcion Lucas-Murillo, Ext. 5434, Rm. 1-452; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in French at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since four year institutions may require specific courses for a French major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking French learn to read, speak, write, and listen in the French language. Conversations cover a great variety of everyday situations and different cultural aspects. French study includes the use of a basic text, a workbook, a reader, a laboratory manual and computer assisted instruction. Speaking and listening skills are developed through practice in class and with audio and video tapes and software.

Language training can give a student a mastery of English grammar and an understanding of another culture, as well as meet a requirement of many bachelor's degree and advanced degree programs.

Students who learn a second language and combine it with a major or minor in a field with good employment prospects will find themselves very competitive in the job market.

French is the major language of Quebec, France, and parts of Belgium and Switzerland. In addition, there are approximately 40 locations around the world where French is used either diplomatically or as a second language. Understanding French can open vast treasures of literature, history, philosophy, music, art, and other areas of a large and varied culture.

Environmental Management

Associate in Arts Code 1030
Contact Persons: QC Campus, Marty Hanson, Ext. 1323, Rm. LRC; East Campus, Wendy Feldner, Ext. 6228, Rm. A-246

The Environmental Management Degree is offered through the Department of Business. This curriculum meets the Business Transfer curriculum requirements. It is also designed as the first two years of a "2+2" agreement with St. Ambrose University for an Environmental Management Degree. Job opportunities exist in Air Quality Management, Water Quality Management, Solid Waste Management and Conservation. Many opportunities exist for students with an interest in science and management.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
CHEM 101 General Chemistry I  4
ENG 101 Composition  3
Fine Arts  3
Humanities (Literature)  3
Elective  1

SECOND SEMESTER SUGGESTED COURSES
ENG 102 Composition II  3
CHEM 102 General Chemistry II  4
POLI 191 Introduction to Political Science  3
MATH 131 Finite Mathematics  3
SPEC 101 Principles of Speech Communication  3

THIRD SEMESTER SUGGESTED COURSES
BIOL 105 General Biology I  4
CS 100 Introduction to Computers  3
ECON 221 Principles of Macro Economics  3
POLI 251 American National Government  3
Humanities  3

FOURTH SEMESTER SUGGESTED COURSES
CHEM 102 General Chemistry II  4
ENG 102 Composition II  3
HIST 222 Comparative Religions  3

Minimum total hours required for degree  64
THIRD SEMESTER SUGGESTED COURSES
FREN 201 Intermediate French I 4
Humanities 3
Non-Western Studies 3
Mathematics or Computer Science 3
Social and Behavioral Sciences 3

FOURTH SEMESTER SUGGESTED COURSES
FREN 202 Intermediate French II 4
Fine Arts 3
Physical Science 4
Social and Behavioral Science 3

Minimum total hours required for degree 64

German

Associate in Arts Code 1007
Contact Persons: QC Campus, María Concepción Lucas-Murillo, Ext. 5434, Rm. 1-452; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in German at a four-year institution should follow the Black Hawk College Associate in Arts Curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since four-year institutions may require specific courses for a German major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking German learn to read, speak, write, and listen in the German language. Conversations and texts cover a great variety of everyday situations and different cultural aspects. German study includes the use of a basic text, a workbook, a reader, a laboratory manual and computer assisted instruction. Speaking and listening skills are developed through practice in class and with audio and video tapes and software.

Language training can give a student a mastery of English grammar and an understanding of another culture, as well as meet a requirement of many bachelor's degree and advanced degree programs. (German is required in many math and science graduate degree programs.)

Students who learn a second language and combine it with a major or minor in a field with employment prospects will find themselves very competitive in the job market.

German is the language of Austria, Liechtenstein, Germany, and the largest part of Switzerland, and is the most taught second language among Europeans. Understanding German can open vast treasures of literature, history, philosophy, music, art and other areas of a large and varied culture.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
ENG 101 Composition I 3
Any foreign language other than German 4-5
GERM 101 Elementary German I 4
Mathematics 3
Social and Behavioral Science 3

SECOND SEMESTER SUGGESTED COURSES
ENG 102 Composition II 3
Any foreign language other than German 4-5
GERM 102 Elementary German II 4
Life Science 3
SPEC 101 Principles of Speech Communications 3

THIRD SEMESTER SUGGESTED COURSES
GERM 201 Intermediate German I 4
Humanities 3
Mathematics or Computer Science 3
Non-Western Studies 3
Social and Behavioral Sciences 3

FOURTH SEMESTER SUGGESTED COURSES
Fine Arts 3
GERM 202 Intermediate German II 4
Physical Science 4
Social and Behavioral Sciences 3

Minimum total hours required for degree 64

Health, Physical Education, and Recreation

Associate in Arts Code 1009 and 1039
Contact Persons: QC Campus, Nelson Lay, Ext. 5386, Rm. 3-352, and Helene Washington, Ext. 5610, Rm. 3-354; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in health education, physical education or recreation at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a health, physical education or recreation major, students should identify the school of transfer as soon as possible and follow that curriculum.

Although there are employment opportunities for associate degree graduates, these curricula are primarily intended for those who wish to transfer to a four-year school to complete a bachelor’s degree in health, physical education, recreation, or a closely related area. Associate in Arts degree graduates can find entry level employment opportunities in the areas of recreation or sports/fitness club organizations.

Opportunities for bachelor's degree graduates may include physical education, health education, coaching, recreation, sports medicine, athletic training, physical therapy, sports journalism, sporting goods manufacturing and sales, facility management, and other related occupations.

It is essential for the student to work closely with a departmental academic advisor to select courses which will apply to a specific program at the chosen four-year school.
Physical Education

FIRST SEMESTER SUGGESTED COURSES  
BIOL 101  General Human Biology OR  BIOL 105  General Biology I  4
ENG 101  Composition I  3
HEAL 102  Living In A Changing World  2
HEPE 212  Introduction to Physical Education  2
HPE Electives (from courses numbered 125-199)  2
PSYC 101  Introductory Psychology  3

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II  3
POLS 251  American National Government OR  HIST 251  History of the United States to 1865 OR  HIST 252  History of the United States after 1865  3
HPE 200  First Aid  3
HPE Electives (from courses numbered 125-199)  2
Humanities or Fine Arts  3
SPEC 101  Principles of Speech Communications  3

THIRD SEMESTER SUGGESTED COURSES
Fine Arts  3
Humanities  3
Mathematics  3
Physical Science  3
PSYC 290  Educational Psychology OR  PSYC 200  Human Growth and Development  3

FOURTH SEMESTER SUGGESTED COURSES
CS 100  Introduction to Computers  3
EDUC 235  Clinical Observation in Education  2
HPE 260  Physical Education, Grades 1-6 OR  HPE 230  Intramural Management  1-4
Non-Western Studies  3
Elective (Social Science elective if Psych 290 is taken)  3

Minimum total hours required for degree  64

Recreation

FIRST SEMESTER SUGGESTED COURSES  
ENG 101  Composition I  3
HEAL 102  Living In A Changing World  2
HEPE 125-199 Electives  1
Physical Science  3
PSYC 101  Introductory Psychology  3
SOC 101  Principles of Sociology  3

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II  3
HPE 200  First Aid  3
HPE 211  Introduction to Community Recreation  2
Humanities or Fine Arts  3
Mathematics or Computer Science  3
SPEC 101  Principles of Speech Communication  3

THIRD SEMESTER SUGGESTED COURSES
POLS 264  Metropolitan Government and Politics  3
HEPE 193  Lifeguard Training  1.5
HEPE 194  Water Safety Instructor  1.5
HPE 215  Leadership in Leisure Activities  3
HPE 230  Intramural Management  2
Humanities  3
Social and Behavioral Science  3

American History

FIRST SEMESTER SUGGESTED COURSES  
ENG 101  Composition I  3
POLS 191  Introduction to Political Science  3
HIST 121  Emergence of Western Culture  3
Physical Science  3-4
SPEC 101  Principles of Speech Communications  3

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II  3
HIST 122  Expansion of Western Culture  3
Fine Arts  3
Life Science  3-4
Elective  3

Non-Western Studies  3
Elective  3

Minimum total hours required for degree  64

History

Associate in Arts Code 1010

Contact Persons for American History: QC Campus, Mark Esposito, Ext. 5427, Rm. 1-463, Jay Pearce, Ext. 5412, Rm. 1-451; East Campus, Wendy Bock, Ext. 6226, Rm. A-247
Contact Persons for European History: Paul Ferguson, Ext. 5425, Rm. 1-451; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in history at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a history major, students should contact an advisor on the history/political science faculty.

This program provides a broad perspective on the human condition and skills essential to any educated person. Students will study the growth and development, triumphs and tribulations of the human race over the last five thousand years. Students may specialize in American or European history. Whichever choice is made, students should emerge from the program with a much better understanding of how earlier generations created and shaped the civilizations and societies in which we live today. Students who complete this program will have a solid foundation upon which to build a history major at a four-year school.

All history courses at Black Hawk College have significant reading and writing components. Successful completion of these courses requires students to demonstrate college-level abilities in these skill areas.

Students who complete a degree in history may be employed as teachers, college professors, museum workers, archivists, public officials, government employees, corporation executives, etc.
### THIRD SEMESTER SUGGESTED COURSES
- POLS 251  American National Government 3
- HIST 251  History of the United States to 1865 3
- Mathematics 3
- Non Western Studies 3
- Electives 6-7

### FOURTH SEMESTER SUGGESTED COURSES
- POLS 252  State and Local Government 3
- HIST 252  History of the United States since 1865 3
- Mathematics or Computer Science 3
- Electives 6-7

**Minimum total hours required for degree** 64

### European History

#### FIRST SEMESTER SUGGESTED COURSES
- ENG 101  Composition I 3
- POLS 191  Introduction to Political Science 3
- HIST 120  Foundation of Western Culture 3
- Physical Science 3-4
- SPEC 101  Principles of Speech Communications 3

#### SECOND SEMESTER SUGGESTED COURSES
- ENG 102  Composition II 3
- Fine Arts 3
- HIST 121  Emergence of Western Culture 3
- Life Science 3-4
- Social and Behavioral Sciences 3
- Electives 3

#### THIRD SEMESTER SUGGESTED COURSES
- HIST 122  Expansion of Western Culture 3
- HIST 231  History of England to 1688 3
- Mathematics 3
- Social and Behavioral Sciences 3
- Electives 5

#### FOURTH SEMESTER SUGGESTED COURSES
- HIST 251  History of the United States to 1865 OR HIST 252  History of the United States since 1865 3
- Mathematics or Computer Science 3
- Non-Western Studies 3
- Electives 6-7

**Minimum total hours required for degree** 64

- Recommended: POLS 262, POLS 271, HIST 141, HIST 142, HIST 151, or HIST 222

### Japanese

**Associate in Arts Code 1043**

**Contact Persons:** QC Campus, Dorothy Beck, Ext. 5426, Rm. 1-459; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in Japanese at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a Japanese major, students should consult with the Counseling Office at Black Hawk College for additional information.

### Journalism

**Associate in Arts Code 1011**

**Contact Persons:** QC Campus, Dorothy Beck, Ext. 5426, Rm. 1-459; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in journalism at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a Journalism major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students in this curriculum will become proficient in general writing skills as well as learn the specific techniques used in journalistic writing, such as interviewing, and sports, editorial and feature writing. Students who work on the College newspaper will focus upon the College community. Courses taking Japanese learn to read, speak, write, and listen in the Japanese language. Conversations and tests cover a great variety of everyday situations and different cultural aspects. Japanese study includes the use of a basic text, a workbook, a reader, a laboratory manual and computer assisted instruction. Speaking and listening skills are developed through practice in class and with audio and video tapes and software.

Language training can give a student a mastery of English grammar and an understanding of another culture, as well as meet a requirement of many bachelor's degree and advanced degree programs. Because of Japan's increasing economic and technological power in the world, communication skills in Japanese are considered not only useful, but even critical among business people and engineers.

**First Semester Suggested Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
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<tr>
<td>POLS 191 Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>HIST 120 Foundation of Western Culture</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3-4</td>
</tr>
<tr>
<td>SPEC 101 Principles of Speech Communications</td>
<td>3</td>
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**Second Semester Suggested Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENG 102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>HIST 121 Emergence of Western Culture</td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td>3-4</td>
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<td>Social and Behavioral Sciences</td>
<td>3</td>
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<td>Electives</td>
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**Third Semester Suggested Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>HIST 122 Expansion of Western Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 231 History of England to 1688</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
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<td>Social and Behavioral Sciences</td>
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<tr>
<td>Electives</td>
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**Fourth Semester Suggested Courses**

<table>
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<th>Course</th>
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<tr>
<td>HIST 251 History of the United States to 1865 OR HIST 252 History of the United States since 1865</td>
<td>3</td>
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<tr>
<td>Mathematics or Computer Science</td>
<td>3</td>
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<tr>
<td>Non-Western Studies</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6-7</td>
</tr>
</tbody>
</table>

**Minimum total hours required for degree** 64

- Recommended: ART 100, ART 282
- Recommended: ARCH 203, GOV 251, POLS 261, HIST 251, HIST 252
- Recommended: PHIL 101 or PHIL 103
- Recommended: HIST 141, HIST 142, HIST 151, HIST 222, ANTH 102, POLS 262, POLS 271
covering journalism-related fields such as radio, TV, photography, and layout are also available.

Journalism graduates may consider a wide range of careers in the media field, such as newspaper reporting, magazine writing, photo-journalism, and radio and television broadcasting, as well as the related areas of criticism and public relations.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ART 200</td>
<td>Art Problems (Desktop Publishing)</td>
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<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>JOUR 222</td>
<td>Beginning Reporting</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SPEC 101</td>
<td>Principles of Speech Communications</td>
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**SECOND SEMESTER SUGGESTED COURSES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>ENG 102</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
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<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
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**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Humanities or Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>JOUR 221</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 230</td>
<td>Newspaper Production</td>
<td>2</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>4</td>
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<tr>
<td>Social and Behavioral Science</td>
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</tr>
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</table>

**FOURTH SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 243</td>
<td>Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 230</td>
<td>Newspaper Production</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics or Computer Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree: 64

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**Pre-Law**

*Associate in Arts Code 1013*

Contact Persons: QC Campus, Joan Eastlund, Ext. 5424, Rm. I-461; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students considering the legal profession should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for students considering a legal career, students should consult with the Counseling Office at Black Hawk College and/or a pre-law advisor for additional information.

This curriculum provides a broad perspective on the human condition and skills essential to any educated person. Students will complete the first two years of traditional pre-law major and will have established a good foundation upon which to complete their pre-law work at a four-year school. Students who complete a law degree may be employed in a variety of ways. Certainly they may practice law, but they may also become judges or other public officials. They may seek election to political office. They may work in private business; they may teach, etc.

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**Law Enforcement Transfer**

*Associate Science Code 1501*

Contact Person: Richard Fiems, Quad-Cities Training Center, Ext. 5985

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJU 151</td>
<td>Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CS 100</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Lawn 101</td>
<td>Police Organization and Administration I</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td></td>
<td>3</td>
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</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Lawn 109</td>
<td>Police Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>Lawn 152</td>
<td>Criminology and Delinquent Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Lawn 251</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>Lawn 255</td>
<td>Criminal Law I</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SPEC 101</td>
<td>Principles of Speech Communication</td>
<td>3</td>
</tr>
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</table>

**FOURTH SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawn 257</td>
<td>Police Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Science and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree: 64
**Mathematics**

*Associate in Arts Code 1033*

*Contact Persons: QC Campus, Lowell Doerder, Ext. 5387, Rm. 3-351; East Campus, Wendy Bock, Ext. 6226, Rm. A-247*

Students planning to major in and obtain a bachelor of arts degree in mathematics at a four-year institution can follow the Black Hawk College Associate in Arts curriculum. Completion of the course of study outlined below will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a mathematics major, students should consult with a mathematics advisor and/or the Transfer Center at Black Hawk College for additional information. If the student has definite intentions of transferring to a particular college or university after completing his/her study at Black Hawk, it would be wise to consult with an appropriate advisor at that college or university before beginning any college education.

Students who plan to major in mathematics at a four-year school should complete the calculus sequence: MATH 124, 225 and 226 while at Black Hawk. The student must also complete MATH 230 Linear Algebra. The mathematics electives listed in the suggested program of study should be selected from MATH 161, MATH 228, and MATH 235. The computer science electives should be selected from CS 101, CS 121, CS 251, and CS 225.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science elective</td>
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</tr>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science elective</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 225 Calculus II</td>
<td>4</td>
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<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
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</table>

**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226 Calculus III</td>
<td>5</td>
</tr>
<tr>
<td>SPEC 101 Principles of Speech Communications</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**FOURTH SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 230 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td>4</td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td>3</td>
</tr>
<tr>
<td>Math or Computer Science elective</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 64

*The initial math course for some students may have to be Precalculus, MATH 118*

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**Pre-Medicine**

*Associate in Science Code 1527*

*Contact Person: QC Campus, Darryl Beckett, Ext. 5239, Rm. 2-268*

Students planning to pursue a medical school curriculum are advised to follow the Black Hawk College Associate in Science curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for their pre-medicine candidates, students should consult with the Counseling Office at Black Hawk College and/or an advisor at the transfer university as soon as possible.

The student who successfully completes medical training could work as a self-employed physician or could be employed as a medical researcher. Students who complete the pre-medical curriculum at BHC will establish a good foundation upon which to complete their medical school curriculum.

The pre-medical candidate will develop critical and analytical thinking skills as well as data evaluation and interpretation of laboratory results.

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105 General Biology I</td>
<td>5</td>
</tr>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>SPEC 101 Principles of Speech Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106 General Biology II</td>
<td>5</td>
</tr>
<tr>
<td>Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**THIRD SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 201 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**FOURTH SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 202 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 65

*Math 225 is recommended*
Music

Associate in Arts

Contact Persons: QC Campus, Jonathan Palomaki, Ext. 5478, Rm. 4-106, and Edgar Crockett, Ext. 5479, Rm. 4-105; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

The music curricula are primarily intended for those planning to transfer to a four-year school to complete a bachelor's degree in a music-related field. Four-year degree programs in music are complex and highly structured, making careful preparation and course selection in the first two years essential. Students are urged to study the general information given below, follow the suggested curricula closely, and consult often with a music advisor. It is also recommended that prospective students be auditioned by a music instructor before enrolling at Black Hawk.

The music program offers achievement awards to both music and non-music majors. Students must audition before the full-time faculty. Awards are given in full or half tuition waivers. Contact the contact persons listed above for more information.

Music Fundamentals, Music Theory, and Music Literature

All the music curricula require classes in music fundamentals (MUSC 110 or proficiency) and music theory (MUSC 111 and 112). All curricula require one semester of music literature (MUSC 113).

Performance Groups

Each music student should participate in a performing group each semester, either MUSC 101 and 102 Instrumental Ensembles or MUSC 107 and 109 College Choirs. Music students may also participate in performance groups other than Instrumental Ensemble or Choir for additional elective credit. Performance groups are open to all Black Hawk College students. No more than 4 credits in each ensemble can be counted toward graduation requirements.

Applied Lessons, Applied Major, Applied Electives

An important part of a music major's curriculum should be individualized and/or group instruction on specific musical instruments and/or in voice. This form of instruction is called "applied lessons." Students choose one instrument, or voice, for primary study and the instruction they receive in that instrument, or voice, makes up their "applied major." One or more additional instruments, or voice, may also be chosen for additional but less intensive study, and these form the "applied electives." All applied lesson classes may be repeated two times for credit. However, music majors can count only 12 credits of applied lessons toward graduation requirements and non-majors may count only up to 4 credits of applied lessons toward graduation. Lesson classes numbered 200 or above may be taken only by sophomores or by students with two semesters of instruction in the corresponding 100 level class.

The following individual lesson classes are offered and are available to all students:

Applied Lesson (Non-major or secondary instrument)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSC 121, 221</td>
<td>Elementary Voice</td>
</tr>
<tr>
<td>MUSC 123, 223</td>
<td>Elementary Piano</td>
</tr>
<tr>
<td>MUSC 141, 241</td>
<td>Elementary Brass Instrument</td>
</tr>
<tr>
<td>MUSC 143, 243</td>
<td>Elementary Woodwind Instrument</td>
</tr>
<tr>
<td>MUSC 145, 245</td>
<td>Elementary String Instrument</td>
</tr>
<tr>
<td>MUSC 147, 247</td>
<td>Elementary Percussion Instrument</td>
</tr>
</tbody>
</table>

Applied Major Lesson

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 125, 225</td>
<td>Voice</td>
</tr>
<tr>
<td>MUSC 127, 227</td>
<td>Piano</td>
</tr>
<tr>
<td>MUSC 129, 229</td>
<td>Organ</td>
</tr>
<tr>
<td>MUSC 131, 231</td>
<td>Brass Instrument</td>
</tr>
<tr>
<td>MUSC 133, 233</td>
<td>Woodwind Instrument</td>
</tr>
<tr>
<td>MUSC 135, 235</td>
<td>String Instrument</td>
</tr>
<tr>
<td>MUSC 137, 237</td>
<td>Percussion Instrument</td>
</tr>
</tbody>
</table>

Students planning to major in music at a four-year institution should follow the Black Hawk College Associate in Arts Curriculum. The completion of one of the courses of study outlined will satisfy graduation requirements of Black Hawk College and meet the general education requirements of all our state universities (except U. of Ill.). Since universities may require specific courses for a music major, students should consult with the Director of Articulation Services at Black Hawk College for additional information.

Music: Business Code 1024

<table>
<thead>
<tr>
<th>Semester</th>
<th>Suggested Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER SUGGESTED COURSES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Fundamentals of Music</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 111</td>
<td>Theory of Music</td>
<td>4</td>
</tr>
<tr>
<td>MATH 131</td>
<td>Finite Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
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<tr>
<td>Applied lessons strongly encouraged see below.</td>
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<td></td>
</tr>
<tr>
<td>SECON SEMESTER SUGGESTED COURSES</td>
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<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 103</td>
<td>Financial Accounting Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENG 102</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSC 112</td>
<td>Theory of Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 113</td>
<td>Exploring Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>Applied lessons strongly encouraged see below.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THIRD SEMESTER SUGGESTED COURSES*</td>
<td></td>
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</tr>
<tr>
<td>ACCT 102</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 104</td>
<td>Managerial Accounting Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECON 221</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>SPEC 101</td>
<td>Principles of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>Applied lessons strongly encouraged see below.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOURTH SEMESTER SUGGESTED COURSES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 222</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mathematics or Computer Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Non-Western Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Applied lessons strongly encouraged see below.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 64

- All students planning to pursue a bachelor's degree in Music Business are advised to enroll in at least one additional hour of applied major lesson or
applied elective lesson per semester. (It is critical that each student receives the advice of a music advisor before enrolling in classes each semester.)

All students planning to pursue a bachelor’s degree in Music Business are advised to enroll in at least one additional credit hour of applied piano: Music 123 or Music 127 Elementary Piano or Piano (Freshman Year) and Music 223 or Music 227 Elementary Piano or Piano (Sophomore Year).

*All students planning to pursue a bachelor’s degree in Music Business are advised to enroll in one credit hour of music ensemble: Music 101, 102 or 107, 109 Instrumental Ensemble or Choir during the third semester sequence.

Music: Instrumental, Vocal, or Keyboard Performance Code 1012

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
CS 100 Intro to Computers 3
ENG 101 Composition I 3
MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir 1
MUSC 110 Fundamentals of Music 2
MUSC 111 Theory of Music 4
Physical Science 3
See specific recommendations for music lessons, etc.

SECOND SEMESTER SUGGESTED COURSES
ENG 102 Composition II 3
Mathematics 3
MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir 1
MUSC 112 Theory of Music 4
MUSC 113 Exploring Music Literature 3
Social and Behavioral Science 3
See specific recommendations for music lessons, etc.

THIRD SEMESTER SUGGESTED COURSES
Humanities 3
Life Science 4
MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir 1
MUSC 211 Theory of Music 4
Social and Behavioral Science 3
See specific recommendations for music lessons, etc.

FOURTH SEMESTER SUGGESTED COURSES
(Music Ensembles are strongly encouraged during the fourth semester)
Humanities or Fine Arts 3
MUSC 212 Theory of Music 4
Non-Western Studies 3
SPEC 101 Principles of Speech Communication 3
Social and Behavioral Science 3
See specific recommendations for music lessons, etc.

Minimum total hours required for degree 64

Lessons
A. The music major should enroll in one hour of applied major lesson each semester.
B. The music student should enroll in a minimum of one hour of applied elective lesson each semester.

(MUSC 123 or 223 for all students with applied major lessons other than piano. MUSC 121 or 221 for all applied major students in piano.)

Participation in a recital is required in the sophomore year. The recital must be preceded by an audition and be approved by the music instructors.

Students planning on majoring in music with an emphasis on performance at a four-year institution should enroll in two semesters of German or French as part of their Humanities electives.

Music: Therapy Code 1022

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
ENG 101 Composition I 3
Humanities 3
MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir 1
MUSC 110 Fundamentals of Music 2
MUSC 111 Theory of Music 4
PSYC 101 Introduction to Psychology 3
See specific recommendations for music lessons.

SECOND SEMESTER SUGGESTED COURSES
ART 100 Art Appreciation 3
ENG 102 Composition II 3
Mathematics 3
MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir 1
MUSC 112 Theory of Music 4
MUSC 113 Exploring Music Literature 3
See specific recommendations for music lessons.

THIRD SEMESTER SUGGESTED COURSES
Biol 105 General Biology I OR 4
Biol 101 Human Biology 4
Mathematics or Computer Science 3
MUSC 101, 102 OR 107, 109 Instrumental Ensemble OR Choir 1
MUSC 211 Theory of Music 4
PSYC 230 Social Psychology 3
See specific recommendations for music lessons.

FOURTH SEMESTER SUGGESTED COURSES
(*Music Ensembles are strongly encouraged during the fourth semester)
ANTH 101 Introduction to Anthropology 3
MUSC 212 Theory of Music 4
Non-Western Studies 3
Physical Science 3
SPEC 101 Principles of Speech Communications 3
See specific recommendations for music lessons, etc.

Minimum total hours required for degree 64

Special recommendations for music students planning to pursue bachelor's degree in music therapy at a four-year institution:

Lessons
A. The music therapy student should enroll in one hour of applied major lesson each semester.
B. The music therapy student should enroll in applied elective lessons as follows:
1. Piano or organ majors should take two hours in the MUSC 121 sequence and four hours in MUSC 145.
2. Voice majors take four hours in the MUSC 123 sequence and two hours in MUSC 145.
3. Brass, woodwind, string (other than guitar) or percussion majors take four hours in the MUSC 123 sequence and two hours in MUSC 145.
4. Guitar majors take four hours in the MUSC 123 sequence and two hours in MUSC 121.

Health 102 Living in a Changing World (2 credits) is a highly recommended course preferably taken during the freshman year sequence.

* Students are also strongly encouraged to take MUSC 101, 102 or 107, 109 Instrumental Ensemble or Choir (1 credit) during the fourth semester sequence.
Pre-Pharmacy

Associate in Science Code 1529
Contact Person: QC Campus, Brian Glaser, Ext. 5238, Rm. 2-263

The Pre-Pharmacy curriculum presented here is based on the requirements of The College of Pharmacy at the University of Illinois-Chicago. If the student is interested in another program such as St. Louis College of Pharmacy or College of Pharmacy at the University of Iowa, contact the Black Hawk College pharmacy advisor or the college to which transfer is anticipated.

If the student desires an Associate in Science degree from Black Hawk College, he/she will need to select general education electives with Black Hawk Associate degree requirements in mind.

A pharmacy degree enables one to work in a retail pharmacy, a clinic or hospital pharmacy, for a pharmaceutical manufacturer in their laboratories or as a pharmaceutical salesperson.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
BIOL 105 General Biology I 5
ENG 101 Composition I 3
CHEM 101 General Chemistry I 4
MATH 124 Calculus I 4

SECOND SEMESTER SUGGESTED COURSES
BIOL 106 General Biology II 5
CHEM 102 General Chemistry II 4
ENG 102 Composition II 3
SPEC 101 Principles of Speech Communications 3
Social or Behavioral Science 3

THIRD SEMESTER SUGGESTED COURSES
BIOL 145 Anatomy-Physiology I 4
CHEM 203 Organic Chemistry I 5
Humanities 3
PHYS 101 General Physics 4

FOURTH SEMESTER SUGGESTED COURSES
BIOL 146 Anatomy-Physiology II 4
CHEM 204 Organic Chemistry II 5
PHYS 102 General Physics 5
Economics 3

Minimum total hours required for degree 67

Note: Students desiring to complete an Associate in Science degree in the pre-pharmacy curriculum must be certain that their course program includes 6 hours of Mathematics, 9 hours of Humanities and Fine Arts general education electives, 9 hours of Social Science general education electives, 3 hours in Non-Western Culture, and a Life Science general education elective, as well as those courses specified by The College of Pharmacy at the University of Illinois-Chicago.

Philosophy

Associate in Arts Code 1036
Contact Persons: QC Campus, William Desmond, Ext. 5437, Rm. 1-470; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students taking the recommended courses in philosophy will study the writings of philosophers who have made crucial contributions to the way we think about subjects such as ethics, religion, psychology, aesthetics, political theory, the nature of science, and what it means in general to think clearly. Students will participate in class discussions as well as express in writing their views on a variety of philosophical issues.

Since advancement in most occupations depends on one's ability to speak and write clearly and logically as well as to understand the beliefs of others, philosophy is an important part of any educational program, be it career or one of the traditional academic disciplines. Selected philosophy courses fit well into various academic majors such as business, history, government, psychology, sociology, literature, pre-law, and the natural sciences. An awareness of the philosophical background of our culture deeply enriches our view of the world, helping us understand the world and our place within it.

Students majoring in philosophy may enter advanced degree programs in preparation for teaching, law, political science, and business.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS
ENG 101 Composition I 3
Life Science 4
PHIL 101 Introduction to Philosophy 3
Social and Behavioral Science 3
SPEC 101 Principles of Speech Communications 3

SECOND SEMESTER SUGGESTED COURSES
ENG 102 Composition II 3
Fine Arts 2
Non-Western Studies, HIST 222 3
PHIL 202 Logic 3
Physical Science 4

THIRD SEMESTER SUGGESTED COURSES
Foreign Language 4
Humanities or Fine Arts 3
Mathematics 3
PHIL 206 Philosophy of Religion 3
Social and Behavioral Science 3

FOURTH SEMESTER SUGGESTED COURSES
Foreign Language 4
Mathematics or Computer Science 3
PHIL 103 Ethics 3
PHIL 205 Topics in Philosophy 3
Social and Behavioral Sciences 3

Minimum total hours required for degree 64
Political Science

Associate in Arts Code 1008

Contact Persons: QC Campus, Joan Eastlund, Ext. 5424, Rm. 1-461, and Jay Pearce, Ext. 5412, Rm. 1-451; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in political science at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College.

Since universities may require specific courses for political science major, students should contact an advisor from among the political science faculty.

This curriculum provides a broad perspective on the human condition and skills essential to any educated person. Students will become familiar with the workings of American government and the American political system at every level-national, state, and local. In addition, they will study how governments function in other countries, and how the governments of different countries interact with each other. Students who complete this program will have a solid foundation upon which to build a political science major at a four-year school.

Students who complete a degree in political science may be employed in a variety of government positions, both appointive and elective, in this country and abroad. In addition, they may work as teachers, college professors, campaign coordinators, public administrators, lawyers, pollsters, research analysts, etc.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
ENG 101  Composition I  3
POLS 191  Introduction to Political Science  3
HIST 251  History of the US to 1865  3
SPEC 101  Principles of Speech Communications  3
Physical Science (GEOG or GEOL) 3-4

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II  3
Fine Arts  3-4
MATH 131  Finite Mathematics for Business  3
SPEC 101  Principles of Speech Communications  3
Elective  3

THIRD SEMESTER SUGGESTED COURSES
POLS 252  State and Local Government  3
HIST 151  History of the Middle East Since 1700  3
HIST 122  Expansion of Western Culture  3
Mathematics or Computer Science  3
Elective  3

Minimum total hours for degree  63-65

Suggested: HIST 120, PHIL 103, PSYC 101 or SOC 101

Psychology

Associate in Arts Code 1015

Contact Persons: QC Campus, Richard Booth, Ext. 5429, Rm. 1-455, Janet Weigel, Ext. 5414, Rm. 1-468, William Hampes, Ext. 5420, Rm. 1-474, and Karla Miley, Ext. 5411, Rm. 1-471; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in psychology at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a psychology major, students should consult with a psychology faculty advisor for additional information.

This curriculum provides a broad perspective on the human condition and skills essential to any educated person. Courses span the areas of human behavior from birth to death, dealing with the many problems and potentialities experienced along the way. Students will learn the theories, techniques, and principles basic to the study of human behavior and psychology including perception, learning, memory, motivation, personality, psychopathology, education, human growth and development, and experimental analysis and design.

Students who complete this curriculum will have a solid foundation upon which to build a psychology major at a four-year school.

Students who complete a bachelor's degree in psychology may find job opportunities as teachers, caseworkers, public officials, personnel and public relations workers, or assistant research psychologists in government, business and industry.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS
BIOL 101  General Human Biology  4
ENG 101  Composition I  3
Humanities  3
PSYC 101  Introductory Psychology  3
SOC 101  Principles of Sociology  3

SECOND SEMESTER SUGGESTED COURSES
ENG 102  Composition II  3
Fine Arts  3
MATH 131  Finite Mathematics for Business  3
SPEC 101  Principles of Speech Communications  3
Elective  3
THIRD SEMESTER SUGGESTED COURSES

CS 100  Introduction to Computers OR 3
CS 101  Introduction to Structured Programming
Humanities or Fine Arts 3
MATH 228 Probability and Statistics 3
PSYC 210 Personality Theories 3
PSYC 262 Child Psychology 3

FOURTH SEMESTER SUGGESTED COURSES

BIOL 250 Principles of Genetics 3
Non-Western Studies 3
Physical Science 3
PSYC 212 Introduction to Experimental Psychology 3
Psychology Elective 3
Elective 3

Minimum total hours required for degree 64

Suggested: HIST 122, PHIL 101, PHIL 103
Suggested: ANTH 102, POLS 262, POLS 271, HIST 141, HIST 142, HIST 151, HIST 181, HIST 182, HIST 222

Public Relations

Associate in Arts Code 1021
Contact Person: QC Campus, Michelle Johnson, Ext. 5370, Rm. 3-370

Students planning to major in public relations at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a public relations major, students should consult the Counseling Office at Black Hawk College for additional information.

Students taking the recommended courses will develop a strong liberal arts background with an emphasis in media and verbal and written communications. Students will learn the theories and develop the skills that will enable them to relate ideas to the public.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS

ART 200  Art Problems 1
ENG 101  Composition I 3
Humanities or Fine Arts 3
JOUR 222  Beginning Reporting 3
TV 112  Computer Literacy for TV 2
TV 220  Introduction to Television 4

SECOND SEMESTER SUGGESTED COURSES

ENG 102  Composition II 3
JOUR 221  Introduction to Mass Media 3
Life Science 4
SOC 101 Principles of Sociology 3
SPEC 101 Principles of Speech Communications 3

THIRD SEMESTER SUGGESTED COURSES

ART 231  Photography 3
ART 243  Writing for the Media OR 3
PHIL 103  Ethics 3
SPEC 175  Intercultural Communications 3

Minimum total hours required for degree 64

Suggested: ANTH 102, POLS 262, POLS 271, HIST 141, HIST 142, HIST 151, HIST 181, HIST 182, HIST 222

FOURTH SEMESTER SUGGESTED COURSES

ART 231  Photography 3
ART 243  Writing for the Media OR 3
PHIL 103  Ethics 3
SPEC 175  Intercultural Communications 3

Minimum total hours required for degree 64

General Social Services

Associate in Arts Code 1026
Contact Person: QC Campus, Karla Miley, Ext. 5411, Rm. 1-471

Students planning to major in social work or a related human service field at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since most colleges and universities require specific courses for a social work major, students should consult with the contact person listed above for additional information.

Students who complete an AA degree with a concentration in General Social Service may find paraprofessional employment in child welfare, mental health, substance abuse, and elderly services as outreach workers, case aides, social service designees, and mental health technicians. Students can select from a variety of electives to pursue their interests in fields such as child welfare, substance abuse, and gerontology. Students who complete a bachelor's degree in social work are employed in family and child welfare services, elderly services, mental health and health related fields, criminal justice, and other areas of social welfare services.

FIRST SEMESTER SUGGESTED COURSES  CREDIT HOURS

BIOL 101 General Human Biology 4
ENG 101 Composition I 3
PSYC 101 Introduction to Psychology 3
SOC 101 Principles of Sociology 3
SPEC 101 Principles of Speech Communications 3

SECOND SEMESTER SUGGESTED COURSES

ENG 102 Composition II 3
PHIL 103 Ethics 3
Electives 7

THIRD SEMESTER SUGGESTED COURSES

Humane or Fine Arts 3
Physical Science 3
SOC 290 Studies in Sociology 1
Social Science 3
Nonwestern elective 3
ECON 221 Principles of Macroeconomics 3
FOURTH SEMESTER SUGGESTED COURSES

Fine Arts 3
MATH 108 Statistics for General Education 3
SOC 250 Minority Relations 3
SOC 290 Studies in Sociology 1
SOC 222 Introduction to Social Work 3
• Electives 3

Minimum total hours required for degree 64

• Suggested: ANTH 102, BIOL 250, ENG 132, POLS 264, PSYC 210, PSYC 212, PSYC 219, PSYC 230, PSYC 250, SOC 251, SOC 255, SOC 264, SOC 290 (Internship), SPEC 114
• Suggested: PSYC 200 or PSYC 262
• Suggested: ENG 211, ENG 212, HIST 122, PHIL 101, HUM 101, ART 100

Sociology

Associate in Arts Code 1016

Contact Persons: QC Campus, Bruce LeBlanc, Ext. 5431, Rm. 1-454, Robert Nakamaru, Ext. 5409, Rm. 1-473; Nancy Smith, Ext. 5410, Rm. 1-472; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in sociology at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a sociology major, students should consult with a sociology faculty advisor for additional information.

This curriculum provides a broad perspective on the human social condition and skills essential to any educated person. Students will study various theories of socialization and patterns of cultural development. Emphasis is placed on social interaction in groups, organizations, and social institutions. Students who complete this curriculum should have a much better understanding of how social conditions influence human behavior. Students will also have a solid foundation upon which to build a sociology major at a four-year school.

Students who complete a degree in sociology may eventually be employed as workers in human service related fields. A degree in sociology may prepare students for entry into professional study in such areas as business, law, theology and social work.

FIRST SEMESTER SUGGESTED COURSES CREDIT HOURS

ENG 101 Composition I 3
PSYC 101 Introductory Psychology 3
Physical Science 3
SOC 101 Principles of Sociology 3
SPEC 101 Principles of Speech Communications 3

SECOND SEMESTER SUGGESTED COURSES

ANTH 102 Introduction to Cultural Anthropology 3
Computer Science 3
ENG 102 Composition II 3
Fine Arts 3
• Sociology Elective 3

THIRD SEMESTER SUGGESTED COURSES

• Humanities or Fine Arts 3
• Life Sciences 4
PHIL 103 Ethics 3
PSYC 230 Social Psychology 3
• Sociology Elective 3

FOURTH SEMESTER SUGGESTED COURSES

ENG 102 Composition II 3
• Mathematics 3
• Sociology Electives 6
Electives 9

Minimum total hours required for degree 64

• Recommended: SOC 200, SOC 250, SOC 251 (General Education Core Curriculum). Suggested: SOC 210, SOC 222, SOC 230, SOC 255, SOC 261, SOC 264, SOC 270, SOC 290
• Suggested: HIST 122
• Recommended: MATH 108
• Recommended: BIOL 101 (Life Science lab course)
• Recommended: CS 100 or CS 210 (education majors)

Spanish

Associate in Arts Code 1017

Contact Persons: QC Campus, Maria Concepcion Lucas-Murillo, Ext. 5434, Rm. 1-452; East Campus, Wendy Bock, Ext. 6226, Rm. A-247

Students planning to major in Spanish at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since four year institutions may require specific courses for a Spanish major, students should consult with the Counseling Office at Black Hawk College for additional information.

See page 28 for information about special placement test

Students taking Spanish learn to read, speak, write, and listen in the Spanish language. Conversations and texts cover a great variety of everyday situations and different cultural aspects. Spanish study includes the use of a basic text, a workbook, a reader/laboratory manual, and computer assisted instruction. Speaking and listening skills are developed through practice in class and with audio and video tapes and software.

Language training can give a student a mastery of Spanish and English grammar and cultural understanding. The training will also help students meet a requirement of many bachelor’s degree and advanced degree programs.

Spanish is one of the five most important spoken languages in the world since about 350 million people use it. Just in the US alone, Spanish is spoken by around 30 million people as their native language. Spanish is also the official language of 20 countries distributed among Europe, North America, Central America, the Caribbean, and South America.

Because of the large Spanish-speaking population in the U.S. and our proximity to Mexico and other Hispanic American countries, the ability to speak Spanish is viewed as a very important skill by many employers. Understanding Spanish
can open vast treasures of literature, history, music, art, philosophy, and other areas of a large and varied culture.

Students taking the introductory course will learn to research, organize, and present material in individual oral presentations. Other courses offer instruction and activities in business and professional communication, including interviewing, resume preparation, and letters of application. There are opportunities to develop skills in informal person-to-person communication and intercultural communications. Skills gained in these classes should enrich the personal lives of students by improving their poise, self-confidence, and effectiveness in oral communications. Skills gained in these courses should be valuable in gaining desirable employment and in receiving promotion.

Excellence in communication prepares students for employment in such diverse areas as law, sales, personnel management, teaching, public relations, and the ministry.

### Speech

**Associate in Arts Code 1018**

*Contact Persons: QC Campus, Michelle Johnson, Ext. 5370, Rm. 3-370; East Campus, Wendy Bock, Ext. 6226, Rm. A-247*

Students planning to major in speech at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a speech major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking the introductory course will learn to research, organize, and present material in individual oral presentations. Other courses offer instruction and activities in business and professional communication, including interviewing, resume preparation, and letters of application. There are opportunities to develop skills in informal person-to-person communication and intercultural communications. Skills gained in these classes should enrich the personal lives of students by improving their poise, self-confidence, and effectiveness in oral communications. Skills gained in these courses should be valuable in gaining desirable employment and in receiving promotion.

### Theatre

**Associate in Arts Code 1003**

*Contact Person: QC Campus, Daniel Haughey, Ext. 5419, Rm. 1-465*

Students planning to major in theatre at a four-year institution should follow the Black Hawk College Associate in Arts curriculum. The completion of the course of study outlined will satisfy graduation requirements of Black Hawk College. Since universities may require specific courses for a theatre major, students should consult with the Counseling Office at Black Hawk College for additional information.

Students taking the recommended courses will study dramas and related material which will serve both to illustrate the historical development of this art form and to identify the unique skills and creative talents contributed by the playwright, actor, director, scene designer, and theatre technician. Students will be given the opportunity to apply theory and principles by becoming directly involved in campus theatre productions. Study of theatre will enhance interpretive and expressive skills and will develop appreciation of this art form.

Students who do well in theatre may enter such careers as acting, directing, scenic design, theatre technician, teaching, or creative entertainment work.

### Theatre

**FIRST SEMESTER SUGGESTED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>THEA 101</td>
<td>Theatre Practicum</td>
</tr>
<tr>
<td>THEA 111</td>
<td>Introduction to Theatre</td>
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<tr>
<td>THEA 202</td>
<td>Stagecraft</td>
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<tr>
<td>ENG 101</td>
<td>Composition I</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
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**CREDIT HOURS**

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2. 3
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7. 3
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<thead>
<tr>
<th>SECOND SEMESTER SUGGESTED COURSES</th>
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<th>FOURTH SEMESTER SUGGESTED COURSES</th>
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<tbody>
<tr>
<td>THEA 102 Theatre Practicum</td>
<td>1</td>
<td>Theatre Practicum (203 or 204)</td>
</tr>
<tr>
<td>THEA 210 Fundamentals of Acting</td>
<td>3</td>
<td>THEA 112 Play Production</td>
</tr>
<tr>
<td>ENG 102 Composition II</td>
<td>3</td>
<td>Social and Behavioral Science</td>
</tr>
<tr>
<td>Math or Computer Science</td>
<td>3</td>
<td>Humanities or Fine Arts</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
<td>Non-Western Studies</td>
</tr>
<tr>
<td>SPEC 101 Principles of Speech Communication</td>
<td>3</td>
<td>Theatre Elective</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>THIRD SEMESTER SUGGESTED COURSES</th>
<th>Minimum total hours required for degree</th>
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</thead>
<tbody>
<tr>
<td>Theatre Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Life Science (Lab Science)</td>
<td>4</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>THEA 201 Directing</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours required for degree 64
Reaching Out to the Community

Adult Education

Description. Classes are open to persons 16 years of age or older who reside in the College district and are not regularly enrolled in elementary or secondary school. Classes are non-credit and provide a range of basic skills in an atmosphere conducive to adult learning.

Registration. Registration is convenient and occurs throughout the semester. Testing ensures the student's accurate placement within the program.

Fees. There is no cost to students who meet specific educational and/or eligibility guidelines. Tuition and materials are provided by resources from the Illinois State Board of Education, Illinois Community College Board and other federal, state, and local sources.

Sufficient Enrollment. Formation of classes depends upon sufficient enrollment. Black Hawk College reserves the right to cancel, combine or divide classes; to change the time, date or place of meeting; and to make other revisions in these courses which may become necessary, and to do so without incurring obligation.

Facilities. Classes may be held wherever satisfactory arrangements can be made including churches, industrial plants, schools, libraries, and housing projects. The major learning centers are:

- Outreach Center
  301 Avenue of the Cities
  East Moline, IL 61244
  (309) 796-4800

- Illinois Employment & Training Center (IETC)
  4703 16th Street, Suite G
  Moline, IL 61265
  (309) 797-7138

- Black Hawk College Technology Center
  Watch Tower Plaza
  3930 11th Street
  Rock Island, IL 61201
  (309) 794-1072

- Aledo Learning Center
  604 SW 3rd Street
  Aledo, IL 61231
  (309) 582-3519

- Outreach Center, East Campus
  229 S Main Street
  Kewanee, IL 61443
  (309) 852-0796/852-5671, Ext. 6268

Support Services: Academic and career counseling are available to students enrolled in the Adult Education Program. Through these services, students can:
- explore options to develop educational/career plans
- increase their awareness of personality strengths
- develop skills to conduct a productive job search
- receive assistance in working through educational/career barriers

Instructional Programs

Adult Basic Education. Classes provide academic skill instruction to adults at a beginning through intermediate level. Instruction is individualized to meet the needs of the student. Subjects available include writing, spelling, reading, mathematics, social studies, science, and life-coping skills. For more information call 796-4816 at the Outreach Center or 794-1072 at the Technology Center. Call 852-5671, Ext. 6268, or 852-0796 at East Campus.

General Educational Development (GED) Preparation. Through these classes, students further develop their academic skills to advance in employment, prepare for college level courses and/or prepare to pass the high school equivalency test (GED). Instruction is individualized to meet the needs of the student. Subjects available include writing, reading, mathematics, social studies, science, and the United States and Illinois Constitutions. For more information call 796-4816 at the Outreach Center or 794-1072 at the Technology Center. Call or 852-5671, Ext. 6268, or 852-0796 at East Campus.

English as a Second Language. Classes are offered to non- or limited-English speaking adults who need to learn English at a basic or intermediate level. For more information call 796-4816 at the Outreach Center. Call 852-5671, Ext. 6268, or 852-0796 at East Campus.

Spanish General Educational Development (GED) Preparation. Classes are informal and instruction is individualized. This class prepares students to pass the high school equivalency test (GED) in Spanish. Subjects include social studies, science, reading, writing, mathematics, and the United States and Illinois Constitutions. Class is held at the Floreciente Center, Moline. For more information, call 796-4816 or 762-7785.

Vocational Skills. Classes are available to qualified Adult Education students. Classes are offered in keyboarding and high school level typing, accounting, office procedures, computer awareness, and introduction to word processing, database, and spreadsheet softwares. Instruction is
individualized. For more information call 796-4816 at the Outreach Center or 794-1072 at the BHC Technology Center.

Optional Education Program (High School Credit). Optional Education is a collaborative effort by the six Rock Island County public secondary school systems, Black Hawk College, the Regional Superintendent of Schools, and the Youth Service Bureau to provide educational alternatives for truant and dropout youth. Students may earn high school credits leading to a diploma or prepare for GED testing. Classes are offered at the Outreach Center, the Black Hawk College Technology Center, and the Quad-Cities Training Center. Support services include personal and vocational counseling, teen parent programs, and bus tickets. For more information call 755-3300 or 796-4849 at the Outreach Center.

Early School Leaver Program. This program serves 16 to 21-year-olds who are attending Optional Education high school credit or GED classes and who are interested in exploring employment and further education options. A full range of career services is offered including self-assessment and career exploration; resumes, cover letters, and interviewing practice; job search techniques, training in employer expectations, and job placement assistance. For more information, call 796-4850 at the Outreach Center.

Family Literacy Program. The Family Literacy Program provides educational opportunities for adults and children in family literacy classes. Classes are offered at various locations for families with preschool and elementary school age children. Adults are enrolled in ESL or GED classes and also learn how to help their children be successful in school. Free books, learning materials, and brochures with helpful information are given to all participants. For more information, call 796-4816 at the Outreach Center.

Workplace Education. This program provides customized job-related academic skills assessment, upgrading, and review in the workplace. Black Hawk College works in partnership with businesses and labor to develop and implement a basic skills program that addresses employees’ needs. For more information, call 796-4816 at the Black Hawk College Technology Center or 852-5671 (Ext. 6292) at the East Campus.

Support Programs

Access to Education & Employment. Services are available to displaced homemakers, single parents, Adult Education Program students, and to those students enrolled in Black Hawk College Career Programs. Support Services are focused on assisting individuals who seek to further themselves through education and employment activities. The Program provides a variety of services including career exploration, resume development, interviewing techniques and other employment seeking skills; academic advisement and assistance in transitioning to Black Hawk College; workshops focusing on personal growth and life skills; and referral to community resources. For more information, call 796-4816 at the Outreach Center.

Literacy is for Everyone (L.I.F.E.) Program. The L.I.F.E. Program provides one-to-one reading, writing, spelling, and math tutoring to persons 16 years of age or older who are out of school and have been identified as functioning below the 8.9 reading, writing or math level. L.I.F.E. assigns a volunteer tutor to work with these students to provide opportunities to increase their self-confidence and abilities. How quickly an appropriate tutor is matched to a participant depends on the student's availability and the availability of volunteer tutors. Please call 792-7138 or the Literacy Hotline at 755-9801 to register for this no fee program. At the East Campus, call Outreach Services at 852-9686.

Business and Community Education Center (BCEC) Classes

Enroll in a wide range of programs and courses with one phone call. Call today and discover how we can meet your lifelong learning and workforce development needs. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

Professional and Career Development

Professional Continuing Education. Black Hawk College's Business & Community Education Center's professional continuing education courses are designed for professionals in careers for which certification and continuing education is beneficial and/or mandatory. To keep current in many professions, CEU's or CE's are required by the state or the credentialing entity. The department is dedicated to providing courses and programs to meet those needs. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

Professional Continuing Development Units (CPDU’s). Black Hawk College is an official provider of Professional Continuing Development Units (CPDU's) that allows Illinois teachers to claim credit toward their teaching certificate renewal. The department offers a wide range of activities relevant to the Illinois State Board of Education and the states five priority areas (reading, math, technology, standards/assessments, and special education.

Certificate in Professional Human Resource Management. This offering is a 10-week professional development program for both human resource practitioners and other professionals. This course helps prepare participants for the Professional in Human Resources (PHR) and the Senior Professional in Human Resources (SPHR) accreditation examinations. This course is offered both in an instructor-led and online format.

Human Resource Fundamentals. This course is designed for entry-level HR professionals, those exploring HR as a career field, and line-managers who have HR Responsibilities. This introductory course will provide participants with a broad
overview of the human resource function. Key topic areas include: Introduction to HR Management, Employment Law, Staffing, Compensation, Human Resource Development, and Performance Management. This instructor-led course will meet for a total of 15 hours over a five-week period.

**APA's Payroll Professional Learning Series.** Black Hawk College's Business & Community Education Center (BCEC) and the American Payroll Association, in cooperation with the Holmes Corporation, offer a three-course professional development program for people who are working in or seeking to enter the payroll profession or related fields. These instructor-led courses are designed to be taken as 'stand-alone' classes or as a three non-credit course sequence to prepare payroll professionals for entry or advancement in this dynamic and increasingly complex organizational function. These courses provide an excellent review/preparation for the national Fundamental Payroll Certification (FPC) and the Certified Payroll Professional (CPP) Certification Exams. Each of the courses is designed to be offered as eight class sessions of three hours each: Primary Payroll Skills, Essential Payroll Skills, and Advanced Payroll Skills.

**The American Society for Quality (ASQ) – Foundations in Quality.** Black Hawk College in partnership with the American Society for Quality is pleased to offer ASQ’s Foundations in Quality. The following are non-credit certificate courses.

**ASQ's Certified Quality Manager Program.** Black Hawk College's Business & Community Education Center in cooperation with the American Society for Quality (ASQ) and the Holmes Corporation, offer a 10-week professional development program for quality managers, human resource professionals, small to mid-size business owners, any manager or professional seeking career change or enhancement. This program will also assist participants preparing for the ASQ's Certified Quality Manager Certification examination.

**Certified Quality Auditor Program.** This course is designed for professionals who desire to increase their expertise in the practices and principles of quality auditing, preparing to take the Certified Quality Auditor exam, or interested in continued professional development. This instructor-led course covers the following topics: Ethics, Provisional Conduct, and Liability Issues, Audit Preparation, Audit Performance, Audit Reporting, Corrective Action Follow-up and Closure, Audit Program Management.

**Certified Quality Engineer.** This 36-hour, instructor-led course covers the principles of product and service quality evaluation and control. Potential participants include professionals working in a quality-focused environment who want to gain comprehensive knowledge in quality engineering principles and practices, professionals in quality-focused organizations who do not have a formal quality engineering background, quality engineers who need to ensure quality compliance of systems, products and services, or quality professionals who want to prepare for ASQ's CQE certification examination.

**Quality 101.** This course is perfect for newcomers or as a refresher for experienced employees. Quality 101 can lay the foundation for common quality practices organization-wide. This instructor-led fifteen-hour course covers these topics: Quality Benefits, The Evolution of Quality, Total Quality Management, Process Management, Quality Tools, and Quality Development. This program will prepare individuals for ASQ's newest certification called Certified Quality Improvement Associate (CQIA).

**ASTD Human Performance Improvement Certificate Program**

**Human Performance Improvement in the Workplace.** This is the first of five courses in the ASTD Human Performance Improvement Certificate Program. Participants must complete all five courses to earn the ASTD Certificate in Human Performance Improvement. This course is designed to prepare you for the inevitable shift to the human performance improvement environment. This course is not about a new way of training employees. It is about a new approach to improving performance that may or may not include traditional methodologies. The course meets for thirty hours, using the study materials from the American Society for Training and Development (ASTD).

**Evaluating Performance Improvement Interventions.** This course is designed to give training professionals new tools for successful performance on the job, as well as help trainers become more effective in measuring the impact of training initiative son employee performance and business results. The course meets for thirty hours. Participants will gain experience in planning evaluation strategies and developing evaluation tools. Throughout the course, participants develop an evaluation project based on current or past work experience.

**Analyzing Human Performance.** This course was developed in partnership with Human Performance Technologies, Inc. It introduces you to the profession’s standard front-end analysis tools to help you use a systematic approach to get at the real performance gaps and the root causes of your performance problems. These classic, proven tools have been developed, tested, and refined by Dr. Joe Harless, the leader of front-end analysis. You’ll discover how this analysis process is closely linked to the foundation of HPI established through the work and theories of Thomas Gilbert.

You will learn how to analyze your performance needs to optimize your HPI efforts. See how to align your front-end analysis with the business results your organization is seeking. This course will show you how to use these tools efficiently and let you practice implementing them in an organization. The course meets for thirty hours.

**Selecting and Managing Interventions.** A primary job of the HPI specialist is to select the intervention that provides the greatest probability of improving performance in the most cost-effective manner. In this course, you will examine the
Travel Career Development. Career Development instruction provides comprehensive and critical information on a broad range of travel services, products, and issues, and on skills needed to begin a productive and rewarding career in the travel industry. Other topics covered will be the Internet, ticketless travel, part-time travel careers, travel-industry specializations, and the increase in home-based professionals.

Travel Geography & Selling Destinations. Travel Geography and Selling Destinations provides a complete look at the world's leading centers of tourism and shows how a realistic knowledge of geography can translate into increased sales. The instruction also explains how the key to travel industry success is in the ability to match clients to destinations and services. In addition to providing complete information about traveling, destinations, lodging and activities, exercises gives the student opportunities to apply information learned to hypothetical travelers and situations.

Travel Sales & Customer Service. This area of instruction provides the necessary skills in an increasingly competitive marketplace and an understanding of the broader sales environment. Realistic selling situations, skills and techniques teach the student step by step at each stage of a sale. The importance of understanding the close relationship between making a sale and providing quality customer service before and after the sale will be covered.

Hospitality, Hotels and Cruise Lines. An overview of the hospitality industry, as it relates to Hotels and Cruise Lines is introduced along with choosing a career in the field. The instruction includes working in the hotel industry, evaluating accommodation for the U.S. and abroad, reservations, policies, and choosing the right hotels. The focus on Cruise Lines covers careers available on Cruise Lines, Life on a Cruise, Modern Cruise Industry, Destinations, Itineraries, and Selling Cruises.

Computer Reservation Training. The Computer Reservation Training provides all the guidance necessary for hands-on training using the Apollo® system. Apollo® is used at 99% of local travel agencies and is highly concentrated in the Midwest, West Coast, Florida, and other coastal states. Black Hawk College has a computer training lab that ensures that all students will be working individually on a computer. The objective of the computer training is to provide the student with the best current formats, policies and procedures for booking air, car and hotel reservations on Apollo®. The skills covered include creating PNRs, maintaining PNRs, air space, quoting fares and pricing itineraries, car rentals and hotel accommodations. The practice and strategies allow for the student to be competent, accurate and efficient in the use of the computer reservation training. Additional computer training systems available are: Sabre, System One and Worldspan.

Professional Development. The focus of professional development is preparing the student for a career in the travel and tourism industries. Topics of instruction include; resume writing, interviewing, travel industry ethics, communication
and phone skills, and other tips for a successful career in the travel and tourism industries. Role-playing and exercise drills will be performed in addition to required professional attire.

**Travel & Tourism Career Night.** You are invited to come to our "Informational Meeting" and learn about the Travel & Tourism program. Please call for the date of the next Career Night. Contact Barb at (309) 796-4844 or virtueb@bhc.edu if you would like an individual consultation and tour.

**Advisory Board.** The Travel & Tourism Advisory Board consists of travel professionals from the travel industry. The Advisory Board will ensure you the travel and tourism program will be of the highest excellence and travel and tourism class information will be updated continuously.

**Black Hawk College Benefits.** Travel agencies prefer that a student attend a college endorsed certificate program and are trained in a true college classroom environment in a dedicated program.

- Receive a Black Hawk College Travel & Tourism Certificate. In less than four months you will be ready to start your professional Travel & Tourism career.

- Black Hawk College has been committed to educational excellence for over 50 years and the Travel & Tourism Program has been offered for 10 years.

- Black Hawk College is highly recognized throughout the Quad Cities and the United States.

- Partnering with the Quad Cities Illinois/Iowa travel agencies, which will advise, update, consult, and offer internships for our students.

**Black Hawk College is a National TAP Test Site.** The TAP Test (Travel Agency Proficiency Test) measures the entry-level knowledge of travel professionals within all aspects of the travel industry. Your TAP credentials will increase your competitive edge with prospective employers. The TAP tests are offered at the end of each class session, but can be arranged at any time upon request.

**Massage Therapy Certificate Program**

This intensive 8-month program prepares individuals for employment as massage therapists. Designed to provide a comprehensive understanding of massage therapy techniques and bodywork modalities with an emphasis on the Swedish Esalen Movement, the curriculum combines lecture and hands-on practice. Required course of study includes anatomy, physiology, kinesiology, CPR and first aid, clinical experience, ethics and business management. Both daytime and evening classes are available. For more information call (309) 796-4823 or visit http://www.bhc.edu/bec/massage.htm.

**Massage Therapy Career Night.** You are invited to join us for one of our “Informational Meetings” to learn about our newly restructured and redesigned Massage Therapy and Body Works program. Please call (309) 796-4823 for the date of the next career night.

**Health Care Certificate Programs**

To meet the growing need for skilled health care professionals, courses are offered in phlebotomy, EKG, pharmacy, and other skilled areas.

**Pharmacy Technician.** This comprehensive 50-hour didactic course will prepare you to enter the pharmacy field in hospitals, home infusion pharmacies and community pharmacies, or as an ancillary to work under the supervision of a registered pharmacist. Course content will include medical terminology specific to the pharmacy reading and interpreting prescriptions and defining drugs by generic and brand names. You will learn dosage calculations, I.V. flow rates, and drug compounding and dose conversions. Dispensing of prescriptions, inventory control, billing and reimbursement will also be discussed. Class curriculum designed by Condensed Curriculum International, Inc. Cost includes textbook and learning materials.

**EKG Technician.** This class prepares you to function as an EKG Technician. The class will include important background information on the 12-Lead EKG, including set-up and the office or hospital setting. You will learn about the anatomy of the heart and physiology, medical disease processes, medical terminology, medical ethics, and legal aspects of patient contact. Students will be introduced to medical careers, law & ethics, blood borne pathogens, MD/DO medical specialties, heart medications, and CPR/First Aid. Students will be required to purchase a book through the bookstore.

**Phlebotomy Technician.** This class will train you in the basic blood drawing procedures for both venipuncture and capillary puncture techniques. The class will address the proper handling, processing, and documentation of samples for laboratory testing. The class content will include: OSHA guidelines and safety rules, anatomy and physiology of the circulatory system, and definitions, terms, and abbreviations associated with basic phlebotomy techniques. Equipment, procedures, and precautions for skin puncture and venipuncture will be reviewed. Medicolegal issues associated with basic phlebotomy techniques, and quality assurance and methods of quality control will be discussed. Upon completion, students will have an understanding of the skills, knowledge, and level of responsibility required to perform professionally and competently as entry-level phlebotomy/lab personnel.

Required before class: School or student physical exam and TB test. Strongly recommend a series of Hepatitis B shots. Required textbook must be purchased at BHC Bookstore prior to first class.
Leadership & Training Plans
Training employees to be highly effective leaders is a must. BCEC will assist your company in designing your company’s training program. The program design includes needs analysis, selecting participants, and determining training methods & activities.

Workforce Training
The Business & Community Education Center (BCEC) offers a wide variety of workforce training classes (industrial, safety, computer, professional development) and seminars that can be customized to meet your company’s specific training needs and offered at our facilities or at your location. In addition, BCEC offers services that include long term training planning, process improvement, and consulting. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

Occupational & Health Classes
Meeting OSHA standards. Train your employees for personal safety and to create or maintain a safe workplace and a secure workforce environment. Classes are public and customized to meet the needs of your worksite. Classes include 10-Hour OSHA for General Industry, Emergency Response Operations, DOT Hazardous Material Training, 8-Hour Annual Hazwoper Refresher, OSHA Record Keeping Requirements, and more.

Potable & Wastewater Classes
Courses to prepare students for future employment in the water and liquid waste treatment industry. Federal certification requirements have increased the reliance for certified personnel. Courses are designed to prepare students for certification as class “C” and “D” Public Water Supply Operators; continuing education requirement for the class “A” and “B” Operators; ERTC guidelines using Vol. 2 of the field study training program; and as approved by the IEPA, the Drinking Water Renewal Training Credits.

Food Sanitation
Food service sanitation classes are designed to prepare students for certification examination in food service for the State of Illinois.

Command Spanish
Black Hawk College is an officially registered provider (ORP) of the country’s leading occupational Spanish program. Command Spanish programs are designed for professionals (i.e. nurses, police officers, firefighters, doctors, caregivers) who need a focused and limited grasp of Spanish to do their jobs properly, efficiently, and safely. Our instructors are qualified and trained to teach innovative Spanish language programs on-site or through workshops and seminars. Occupational Spanish is real Spanish that is taught to real people who have real language needs.

Industrial Training
To meet the industrial training needs of the community, BCEC customizes the following classes for area companies: Blueprint Reading, Industrial Math, GD&T, ISO 9001:2000, and more.

APICS – American Production and Inventory Control Society
The Educational Society for Resource Management is a not-for-profit international educational organization respected throughout the world for its education and professional certification programs. APICS’ certification program, training tools, and networking opportunities increase workplace performance.

Certificate in Production and Inventory Management (CPIM)
Join the dedicated professionals worldwide who have earned the highly regarded CPIM designation. The Certificate in Production and Inventory Management program has educated manufacturing and service professionals in the concepts, terminology, and technology within the field of production and inventory management for more than 25 years. Five modules make up the test preparation for the CPIM certification process:

- Basics of Supply Chain Management
- Master Planning of Resources
- Detailed Scheduling and Planning
- Execution and Control of Operations
- Strategic Management of Resources

Online Classes
A wide variety of online classes are offered through BCEC. For more information, call (309) 796-4823 or visit www.ed2go.com/blackhawk for a list of classes.

Computer Classes
Basic and advanced computer skills, daytime and evening, public and customized. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

Community Education
Career and Trade Skills, Personal Activities, Foreign Languages and Culture, ACT Preparation, Dance, Sports & Wellness, Hobby & Leisure, Vacation Opportunities and Cruise Offerings. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

Community-Based Programs & Workshops
Many BCEC courses can be offered in outlying communities. For more information, call (309) 796-4823 (QC Campus) or 852-5671, Ext. 6292 (East Campus).

Community Conferences & Workshops
The community services program offers a wide range of services to public and private organizations including planning and arranging for seminars, conferences, institutes, short courses and workshops. The department also conducts co-sponsors workshops and conferences with certain institutions
and organizations. For more information, call (309) 796-4823 (QC Campus) or 852-5671, Ext. 6292 (East Campus).

Seniors Program
For more information call (309) 796-4823 or visit Web site: http://www.bhc.edu/bcec/seniors.htm.

Golden Opportunities: The program is designed for those 55 and over. A relaxed atmosphere is provided for learning and classes are primarily offered during the day and may be held from 1 day to 6 weeks. A variety of classes are offered depending on interest and demand. Example: Computers for the very beginner, Yoga, Writing Your Memories, Anyone Can Learn to Draw classes.

Golden Scholars: Black Hawk College works in conjunction with the Quad-Cities Times Plus 60 Club in offering lunch/learn sessions. The sessions are offered during the day at various points of interests in the Quad-Cities area with a lunch provided and a guest speaker on a particular topic of interest.

Adventures in Learning – Youth Classes
Black Hawk College's Business & Community Education Center provides fun-filled, educational and quality programming to youth. A variety of classes are offered spring and summer sessions. Ages are specified with each individual class. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

College For Kids
The 2-week program is designed for gifted students who have completed fifth, sixth, seventh, and eighth grades and score at the 95th percentile or above on one of the following: total math, total reading, total science, social studies or total composite battery of a recent standardized test. Students are identified by their schools using the CFK criteria. For more information, call (309) 796-4823 or visit http://www.bhc.edu/bcec.

BCEC Registration Procedures

Eligibility -- Who Can Enroll
• Enrollment is open to anyone 16 years of age or older.
• High school students may enroll with special permission from their school counselor.
• Special classes designed for youth state the age requirements in the class description.

Cancellation Policy
Without incurring obligation, Black Hawk College reserves the right to:
• cancel classes due to insufficient enrollment.
• change the time, date, or place of meeting.
• make other revisions in course offerings as it becomes necessary.

Drops/Refunds
Drops can be completed by phone or in person at the Business & Community Education Center office. A full refund is made if a class is canceled.

One-day or one-night classes: A drop from the class must be processed one business day prior to the start date of the class for a full refund (100%).

Two-Week to Four-Week classes: A full refund (100%) is made if a student drops the class no later than NOON on the day of the first class meeting. Once the class has started, there is no refund.

Five-Week to Six-Week classes: A full refund (100%) is made if a student drops the class no later than NOON on the day of the first class meeting. An 80% refund is made if a student drops the class after the first class meeting but prior to the second class.

Since the learning materials make up a large portion of the cost of these courses, no materials may be returned for credit unless they are in un-opened condition.

Industrial/OSHA/APICS Classes: Drops must be processed five working days prior to the start date of class for a full refund. No refunds will be given after that date.

Travel & Tourism/Massage Classes: A full refund (100%) is made if a student drops prior to the start of class (minus deferred payment/student loan processing fee, if applicable). A 50% refund is made if a student drops the during the first day of class (minus deferred payment/student loan processing fee, if applicable). After the first day of class, there is no refund.

Online Classes: A full refund (100%) is made if a student drops prior to the start of class. Once the class has started, there is no refund.
Small Business Development Center

The College's Small Business Development Center (SBDC) is a collaborative partnership among educational, public and private organizations. Its mission is to assist small business owners to gain awareness and access to public and private management and technical resources businesses need to survive, expand and prosper, through referrals and direct delivery of services. Through education, counseling and referrals, the SBDC assists small businesses to function more effectively, increase the chances of new business success, enhance profitability, and increase employment. The SBDC offers the Small Business Certificate Program, Small Business Certificate Program online, and the Smart Marketing for Your Small Business Program, which are designed to educate the small business owner or prospective owner. Courses offer practical knowledge based on sound business practices. For more information call 309-764-2213.

International Trade Center

The International Trade Center (ITC) provides existing business owners with professional assistance and resources to enter the global marketplace. The ITC can help identify specific international markets in which a company's product or service can have the greatest demand, provide guidance in meeting U.S. government export criteria and international government requirements, increase the international skills in the business community by providing "training for trade" programs that assist companies to export. The ITC offers an Essentials of Exporting Certificate Program online targeted for business employees to gain international skill training in export/import trade to compete in a world marketplace. For more information call 309-764-2246.
### Course Descriptions

Courses listed in this catalog are those Black Hawk College plans to offer. Inclusion of a course description does not obligate the College to offer the course in any particular semester. Students should review the appropriate class schedule each semester for specific and current course offerings.

### Classification of Courses

Lecture hours per week refer to the normal number of 50 minute class meetings or equivalent for which the class meets each week during the semester. Lab hours per week refer to the normal number of 50 minute class meetings or equivalent for which the class meets in a laboratory setting each week during a 16-week semester.

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### Accounting

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>Managerial Accounting</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>ACCT 103</td>
<td>Financial Accounting Lab</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>ACCT 104</td>
<td>Managerial Accounting Lab</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>ACCT 120</td>
<td>Computerized Accounting</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>ACCT 140</td>
<td>Business Computer Systems</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Accounting Seminar I</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>ACCT 205</td>
<td>Principles of Cost Accounting</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>ACCT 209</td>
<td>Intermediate Accounting I</td>
<td>3 cr. hrs.</td>
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</tbody>
</table>

**ACCT 101 Financial Accounting 3 cr. hrs.**
Prerequisites: Concurrent enrollment in or completion of ENG 101 with a grade of "C" or better and eligibility to enroll in MATH 112 or consent of the instructor. Concurrent enrollment in ACCT 103 or successful completion of ACCT 103 with a "C" or better. Introductory course for the study of fundamental accounting principles involved in the preparation of financial statements for corporations. Includes the study of the accounting cycle, accounting systems, cash, receivables, inventories, long-term assets, liabilities, and equity accounts. 3 lecture hours; 0 lab hours per week. IAI: BUS 903

**ACCT 102 Managerial Accounting 3 cr. hrs.**
Prerequisite: ACCT 101 or equivalent course with a minimum grade of "C". Successful completion of ACCT 104 with a "C" or concurrent enrollment in Accounting 104. Emphasis on use of accounting data in aiding managerial decisions, preparation of cost of goods manufactured, cost of goods sold, income statement cost production reports, and budget preparation and analysis. 3 lecture hours; 0 lab hours per week. IAI: BUS 903

**ACCT 103 Financial Accounting Lab 1 cr. hr.**
Prerequisite: Concurrent enrollment in ACCT 101 or successful completion of ACCT 101 with “C” or better. Uses computers to provide students with experience in data entry and computerized financial reporting on topics related to ACCT 101. Also uses the computer as an individual learning resource. Exercises, worksheets, and computerized practice problems are completed by the student. 0 lecture hours; 2 lab hours per week. IAI: BUS 903

**ACCT 104 Managerial Accounting Lab 1 cr. hr.**
Prerequisite: Concurrent enrollment in ACCT 102, successful completion of ACCT 102 with “C” or above. A study of procedures and uses of the general ledger system and managerial applications applicable to the topics as outlined in ACCT 102. 0 lecture hours; 2 lab hours per week. IAI: BUS 904

**ACCT 120 Computerized Accounting 3 cr. hrs.**
Prerequisite: ACCT 101, 103 or BA 170, 171 or permission of instructor. A study of procedures and uses of the general ledger, accounts receivable, accounts payable, billings, purchase orders, forecasting, and payroll software systems. Designed for students in the Accounting Specialist Career Program. 2 lecture hours; 2 lab hours per week.

**ACCT 140 Business Computer Systems 3 cr. hrs.**
Prerequisite: MATH 131 or equivalent. A course evenly divided between the study of Management Information Systems theory and common microcomputer productivity tools. Computer hardware, software, system analysis, database management systems, telecommunications, and artificial intelligence are among the topics surveyed. 3 lecture hours; 1 lab hour per week.

**ACCT 201 Accounting Seminar I 1 cr. hr.**
Seminar intended to expose students to current and practical accounting and business issues. 1 lecture hour; 0 lab hours per week.

**ACCT 205 Principles of Cost Accounting 3 cr. hrs.**
Prerequisite: Successful completion of ACCT 102 with “C” or better. Cost principles as applied to service, retail, and manufacturing businesses. Topics covered will include the role of cost principles in planning, evaluation, and control of costs. Also, the use of cost principles in pricing and management decision-making. Statement preparation, reports on the cost of products or services, activity based costing, just-in-time inventory systems, capital budgeting, cost-volume-profit analysis, and performance measures are additional topics included in the course. 3 lecture hours; 0 lab hours per week.

**ACCT 209 Intermediate Accounting I 3 cr. hrs.**
Prerequisites: ACCT 101 and 102 or BA 170 and 180, with prior or concurrent enrollment in ACCT 102. Comprehensive review of fundamental accounting principles and the conceptual framework, including the financial statements, time value of money and current assets. Designed
for students in the Accounting Specialist Career Program. 3 lecture hours; 0 lab hours per week.

**ACCT 210 Intermediate Accounting II**  
3 cr. hrs.  
Prerequisite: ACCT 209.  
Further study of corporate accounting, non-current assets, current and non-current liabilities, and stockholders' equity. 3 lecture hours; 0 lab hours per week.

**ACCT 250 Federal Income Tax I**  
3 cr. hrs.  
Prerequisite: ACCT 101, BA 170 or consent of instructor.  
Covers the regulations applicable to the determination of taxable income with an emphasis on the determination of the tax liability of individual taxpayers. 3 lecture hours; 0 lab hours per week.

**ACCT 251 Federal Income Tax II**  
3 cr. hrs.  
Prerequisite: ACCT 250, BA 180, ACCT 102, or consent of instructor.  
Covers the regulations applicable to the determination of the tax income with an emphasis on the determination of the tax liability of business tax returns. 3 lecture hours; 0 lab hours per week.

### Agriculture

**AG 100 Introduction to Agriculture**  
1 cr. hr.  
A study of agriculture in our modern society. Emphasis on leadership development, educational goals and employment opportunities. Brief orientation to the College and agriculture division. Required for all transfer students. 1 lecture hour; 0 lab hours per week.

**AG 101 Introductory Agriculture Seminar**  
1 cr. hr.  
A study of the agricultural industries that are of service to farmers. Special reports on selected current topics. Part of class time will be utilized by visiting lecturers. Occasionally, a dinner meeting may be held. Required of all full-time agricultural students. 1 lecture hour; 0 lab hours per week.

**AG 102 Agriculture Work Experience Seminar**  
1 cr. hr.  
Continuation of AG 101 with special emphasis on developing the work-education experience program. 1 lecture hour; 0 lab hours per week.

**AG 107 Agribusiness Work Experience**  
1-8 cr. hrs.  
Prerequisite: Satisfactory completion of 22 credit hours in the Agribusiness curriculum or consent of instructor and concurrent enrollment in AG 102.  
Eleven weeks of supervised training in an approved agricultural business. Reports by the student and satisfactory job performance required for credit. 0 lecture hours; 48 lab hours per week.

**AG 108 Agricultural Production Work Experience**  
1-8 cr. hrs.  
Prerequisite: Satisfactory completion of 22 credit hours in the Agricultural Production curriculum or consent of instructor and concurrent enrollment in AG 102.  
Eleven weeks of supervised training in an approved agricultural business. Reports by the student and satisfactory job performance required for credit. 0 lecture hours; 48 lab hours per week.

**AG 121 Introduction to Agricultural Economics**  
3 cr. hrs.  
Surveys the role of agriculture in the present economy, nature and size of agricultural industries, relation of production to domestic and foreign demand, and future economic prospects for agriculture and government. 3 lecture hours; 0 lab hours per week.

**AG 122 Farm Management**  
4 cr. hrs.  
Prerequisite: AG 121 or consent of instructor.  
The functions of management applied to the problems of agricultural producers and business managers will be studied. Topics to be covered include resource analysis, budgeting, enterprise planning, and labor management. The major focus of the course will be on planning and budgeting. 3 lecture hours; 2 lab hours per week.

**AG 123 Agricultural Mathematics**  
3 cr. hrs.  
The practical mathematical background needed for agricultural mechanics, Agribusiness and agricultural production. Includes calculations of land area, planting, fertilizer, chemical and herbicide application rates, storage capacity, material estimates, depreciation, ratio, markups, production rates, and machinery operating costs. 3 lecture hours; 0 lab hours per week.

**AG 125 Computers in Agriculture I**  
3 cr. hrs.  
An introductory course in the use of computers in agricultural situations. Emphasis will be placed on the type of computers used in agriculture, how these computers operate, and the types of computer software available for agricultural use. Students will learn to operate computers through hands-on classroom and laboratory experiences. 2 lecture hours; 2 lab hours per week.

**AG 131 Soils and Soil Fertility**  
4 cr. hrs.  
Basic course dealing with the formation, physical, chemical, colloidal, and biological properties of soils. Special emphasis is given to soil conditions that affect plant growth and crop yields. Laboratory experience in texture, structure and fertility. 3 lecture hours; 2 lab hours per week.

**AG 132 Field Crop Science I**  
1.5 cr. hrs.  
The study of botanical characteristics and cultural practices of commercially important Corn Belt crops, including quality improvements, seed purity, diseases, insects, weeds and crop production techniques. Laboratory exercises focus on selected crop production and management practices. 1.5 lecture hours; 0 lab hours per week.
AG 133 Field Crop Science II  2 cr. hrs.
The study of botanical characteristics and cultural practices of commercially important Corn Belt crops, including quality improvements, seed purity, diseases, insects, weeds and crop production techniques. Laboratory exercises focus on selected crop production and management practices. Continuation of AG 132. 1 lecture hour; 2 lab hours per week.

AG 134 Field Crop Science III  .5 cr. hrs.
The study of botanical characteristics and cultural practices of commercially important Corn Belt crops, including quality improvements, seed purity, diseases, insects, weeds and crop production techniques. Laboratory exercises focus on selected crop production and management practices. Continuation of AG 133. .5 lecture hours; 0 lab hours per week.

AG 135 Ag Chemicals I  1.5 cr. hrs.
The study of the role of chemicals commonly used in agricultural production, including insecticides, herbicides, seed treatments and livestock chemicals. Emphasis is placed on the identification of weeds, insects and plant diseases, as well as prevention, control, and eradication of these problems. Laboratory exercises focus on weed and insect scouting, procedures used in handling and applying chemicals and comparisons of various pest management practices. 1.5 lecture hours; 0 lab hours per week.

AG 136 Ag Chemicals II  1 cr. hr.
The study of the role of chemicals commonly used in agricultural production, including insecticides, herbicides, seed treatments and livestock chemicals. Emphasis is placed on the identification of weeds, insects and plant diseases, as well as prevention, control, and eradication of these problems. Laboratory exercises focus on weed and insect scouting, procedures used in handling and applying chemicals and comparisons of various pest management practices. Continuation of AG 135. 0 lecture hours; 2 lab hours per week.

AG 137 Ag Chemicals III  .5 cr. hrs.
The study of the role of chemicals commonly used in agricultural production, including insecticides, herbicides, seed treatments and livestock chemicals. Emphasis is placed on the identification of weeds, insects and plant diseases, as well as prevention, control, and eradication of these problems. Laboratory exercises focus on weed and insect scouting, procedures used in handling and applying chemicals and comparisons of various pest management practices. Continuation of AG 136. .5 lecture hours; 0 lab hours per week.

AG 138 Crop and Soil Management  3 cr. hr.
Provides students an opportunity to gain experience in advanced crop and soil management. An emphasis will be placed on new technology and products that have been implemented into crop production. The application of geographical information systems and global position equipment in crop production and soil management will also be covered. 3 lecture hours; 0 lab hours per week.

AG 139 Crop and Soil Evaluation II  1 cr. hr.
Prerequisite: AG 138 or consent of instructor.
Provides students an opportunity to gain experience in evaluating crops and soils. Selection will be based on marketing and/or production standards. A continuation of AG 138. 1 lecture hour; 0 lab hours per week.

AG 141 Animal Science  4 cr. hrs.
Basic course of selecting and evaluating beef cattle, dairy cattle, sheep and swine on a purebred and market basis. Emphasis is placed on types, breeds and market classifications as they relate to the economic factors of profitable livestock production. Laboratory exercises will be used to develop basic skills in livestock production management. 3 lecture hours; 2 lab hours per week.

AG 142 Animal Nutrition  3 cr. hrs.
Study of common feeds and their uses in animal nutrition including calculations of rations for maintenance, growth and production. 3 lecture hours; 0 lab hours per week.

AG 143 Field Crop Science I  1 cr. hr.
The study of botanical characteristics and cultural practices of commercially important Corn Belt crops, including quality improvements, seed purity, diseases, insects, weeds and crop production techniques. Laboratory exercises focus on selected crop production and management practices. Continuation of AG 138. 1 lecture hour; 2 lab hours per week.

AG 144 Livestock Evaluation I  1 cr. hr.
Provides an opportunity to gain experience in evaluating livestock. Selection will be based on marketing and/or production standards. Consideration will be given to organizing and presenting oral reasons. 1 lecture hour; 0 lab hours per week.

AG 145 Livestock Evaluation II  1 cr. hr.
Provides students an opportunity to gain experience in evaluating dairy cattle. Selection will be based on marketing and/or production standards. Consideration will be given to organizing and presenting oral awards. 1 lecture hour; 0 lab hours per week.

AG 146 Dairy Evaluation  1 cr. hr.
Provides students an opportunity to gain experience in evaluating dairy cattle. Selection will be based on marketing and/or production standards. Consideration will be given to organizing and presenting oral reasons. 1 lecture hour; 0 lab hours per week.

AG 147 Dairy Evaluation  1 cr. hr.
Provides students an opportunity to gain experience in evaluating dairy cattle. Selection will be based on marketing and/or production standards. Consideration will be given to organizing and presenting oral awards. 1 lecture hour; 0 lab hours per week.

AG 148 Livestock Evaluation I  1 cr. hr.
Provides an opportunity to gain experience in evaluating livestock. Selection will be based on marketing and/or reasons. Continuation of AG 148. 1 lecture hour; 0 lab hours per week.

AG 149 Livestock Evaluation II  1 cr. hr.
Prerequisite: AG 148 or consent of instructor.
Provides an opportunity to gain experience in evaluating livestock. Selection will be based on marketing and/or reasons. Continuation of AG 148. 1 lecture hour; 0 lab hours per week.

AG 150 Materials Handling Equipment  2 cr. hrs.
Mechanics of materials handling for chemicals, feeds and fertilizers; calibration of equipment. Special emphasis on small engines. Laboratory experiences will allow for actual experiences. 1 lecture hour; 2 lab hours per week.

AG 151 Agricultural Commercial Drivers License Training  2 cr. hrs.
Studies with CDL. This course is required for students in the Associate in Applied Science Degree program in agribusiness management in the agricultural chemical application specialty. 1 lecture hour; 2 lab hours per week.
AG 173 Agricultural Chemical Equipment Technology I  
1 cr. hr.  
A course focusing on studies of dry fertilizer material equipment variations, calibration systems and methods, maintenance and service requirements, and actual operation of application equipment. 1 lecture hour; 0 lab hours per week.

AG 174 Agricultural Chemical Equipment Technology II  
1 cr. hr.  
A course focusing on studies of liquid fertilizer and agricultural chemical equipment variations, calibration systems and methods, maintenance and service requirements, and actual operations of liquid application equipment. 1 lecture hour; 0 lab hours per week.

AG 200 Topics in Agriculture  
.5-3 cr. hrs.  
Designed to satisfy specific needs and interest of students in agriculture. Topics will vary and will be announced in advance. This course may be taken more than once provided that different topics are considered. The maximum credit that can be earned is six credit hours.

AG 201 Advanced Agriculture Work Experience Seminar  
1 cr. hr.  
Prerequisite: Concurrent enrollment in EQ 209 or consent of instructor.  
Special emphasis on preparing for advanced training for final supervised work-education experience and career planning. 1 lecture hour; 0 lab hours per week.

AG 202 Advanced Agriculture Seminar  
1 cr. hr.  
Prerequisite: AG 201 or consent of instructor.  
Special emphasis will be given to definition and career explanation in the agribusiness field by students enrolled. 1 lecture hour; 0 lab hours per week.

AG 207 Advanced Agribusiness Work Experience  
1-5 cr. hrs.  
Prerequisite: AG 107 and concurrent enrollment in AG 201.  
Similar to EQ 109 with emphasis on sales and management of agricultural supply business. One credit hour credit is awarded for satisfactory completion of training manual. 0 lecture hours; 48 lab hours per week.

AG 208 Advanced Agricultural Production Work Experience  
1-5 cr. hrs.  
Prerequisites: AG 108 and concurrent enrollment in AG 204.  
Similar to AG 108 with emphasis on improvement of farm operations problem areas. Satisfactory continuation and completion of the training manual is required. 0 lecture hours; 48 lab hours per week.

AG 211 Agricultural Salesmanship  
3 cr. hrs.  
Study of the basic principles and theories of salesmanship with considerable emphasis given to the practical application. Role playing will be utilized to stress techniques. Sales aids, market promotion and advertising will be included. 3 lecture hours; 0 lab hours per week.

AG 214 Agriculture Technology & Information Management  
3 cr. hrs.  
A course focusing on new and existing technology in agriculture, the collection of agricultural information, with analysis and applications to areas of agriculture production and ag business management. 2 lecture hours; 2 lab hours per week.

AG 222 Advanced Agriculture Management  
4 cr. hrs.  
Prerequisite: AG 122 or consent of instructor.  
A course dealing with management factors affecting profits in the operation of agricultural businesses. These factors include the keeping of records, analyzing records, income tax management, using credit to finance the business, using insurance in the business, and leasing. Experiences in making entries and summarizing business records as well as completing income tax forms will be provided. 3 lecture hours; 2 lab hours per week.

AG 223 Agricultural Marketing I  
3 cr. hrs.  
Prerequisite: AG 121 or consent of instructor.  
Emphasis is placed on the importance and place of marketing in our economic system. Price determinants, margins, costs and outlets for agricultural products are discussed. 3 lecture hours; 0 lab hours per week.

AG 224 Agricultural Law  
3 cr. hrs.  
A study of the laws that affect the American farmer dealing with labor, taxation, tenancy, liability and other areas. 3 lecture hours; 0 lab hours per week.

AG 225 Computer Applications in Agriculture  
3 cr. hrs.  
Use of computers in farm and agribusiness management with emphasis on commercially available software for accounting, budgeting, record keeping, and market analysis. 2 lecture hours; 2 lab hours per week.

AG 232 Forage Crops  
3 cr. hrs.  
Examination of forage crops characteristics and ecology, grasslands of farm and range as related to animal production. 3 lecture hours; 0 lab hours per week.

AG 238 Crop and Soil Evaluation III  
1 cr. hr.  
Provides students an opportunity to gain experience in evaluating crops and soils. Selection will be based on marketing and/or production standards. A continuation of AG 139. 1 lecture hour; 0 lab hours per week.

AG 239 Crop and Soil Evaluation IV  
1 cr. hr.  
Provides students an opportunity to gain experience in evaluating crops and soils. Selection will be based on marketing and/or production standards. A continuation of AG 238. 1 lecture hour; 0 lab hours per week.

AG 241 Artificial Insemination of Cattle  
1.5 cr. hrs.  
Theory and technology involved in artificial insemination, including semen collection techniques, evaluation of semen, processing of semen for storage, and insemination techniques. 1 lecture hour; 1 lab hour per week.
AG 242 Artificial Insemination of Swine  1.5 cr. hrs.
Theory and technology involved in artificial insemination, including semen collection techniques, evaluation of semen, processing of semen for storage and insemination techniques. 1 lecture hour; 1 lab hour per week.

AG 244 Swine Science  3 cr. hrs.
A basic course in swine production and management which includes selecting, breeding, feeding, managing and marketing of swine. Laboratory will provide hands-on experience to develop in-depth skills in the rapidly changing technology of the swine industry. 2 lecture hours; 2 lab hours per week.

AG 245 Beef Science  3 cr. hrs.
A basic beef production and management course which includes the low-calf and feedlot operations. Laboratory exercises to acquire and develop in-depth skills. 2 lecture hours; 2 lab hours per week.

AG 246 Meat Animal Evaluation  3 cr. hrs.
Live animal and carcass evaluation of meat animals-beef, sheep and swine. Students to acquire and develop in-depth skills in laboratory. 2 lecture hours; 2 lab hours per week.

AG 247 Animal Health  2 cr. hrs.
Animal diseases and parasites, their prevention and control. Man's susceptibility to disease. Federal and State regulations. 2 lecture hours; 0 lab hours per week.

AG 248 Livestock Evaluation III  1 cr. hr.
Prerequisite: AG 148 and AG 149 or consent of instructor.
Provides students an opportunity to gain experience in evaluating livestock. Selection will be based on marketing and/or production standards. Consideration will be given to organizing and presenting oral reasons. Continuation of AG 149. 1 lecture hour; 0 lab hours per week.

AG 249 Livestock Evaluation IV  1 cr. hr.
Prerequisite: AG 148, AG 149, AG 248 or consent of instructor.
Provides students an opportunity to gain experience in evaluating livestock. Selection will be based on marketing and/or production standards. Consideration will be given to organizing and presenting oral reasons. Continuation of AG 248. 1 lecture hour; 0 lab hours per week.

AG 268 Intermediate Horse Training and Development  3 cr. hrs.
Prerequisite: EQ 161, 262.
The study of early training of a horse beginning with ground work and translating it into riding. Emphasis is placed on developing a knowledge and use of transition training and developing the horse through body control and resistance free training. 2 lecture hours; 2 lab hours per week.

AG 272 Grain Drying and Handling  3 cr. hrs.
A basic course in the operation, adjustment and maintenance of grain-drying equipment in the field. 2 lecture hours; 2 lab hours per week.

AG 273 Lawn and Garden Equipment Repair  1-4 cr. hrs.
This course covers the operation and maintenance of consumer products in the agriculture industry. Topics to be covered include lawn mowers, lawn sweepers, lawn conditioning equipment, snow blowers, leaf blowers. 2 lecture hours; 4 lab hours per week.

AG 275 Field Machinery Operations I  3 cr. hrs.
Introduces the student to harvesting, tillage, and planting operations. Emphasis will be placed on theory, operation, maintenance and adjustment of the machines. 2 lecture hours; 2 lab hours per week.

AG 276 Field Machinery Operations II  3 cr. hrs.
Introduces the student to theory and maintenance of agricultural engine systems. Includes care, maintenance and calibration of field sprayers. 2 lecture hours; 2 lab hours per week.

AG 280 Introduction to Agricultural Education  3 cr. hrs.
An overview of the agricultural occupations program from the vocational agriculture teacher's role and responsibility in an educational system. Opportunities, methods of certification, and securing positions in the teaching profession. FFA will be an integral part. 3 lecture hours; 0 lab hours per week. IAI: AG 911

AG 281 Agricultural Economics  4 cr. hrs.
An introduction to agricultural economics which focuses on placing the elements, description, theory, management and policies in proper perspective. Emphasis is placed on the dynamics, breadth, scope and interrelationships of economic growth that is evident of the historical development of economic life. 4 lecture hours; 0 lab hours per week. IAI: AG 901

AG 282 Intro. to Soil Science  4 cr. hrs.
Prerequisite: Chemistry suggested.
Origin, classification and distribution of soils and their relationship to man and food production. Fundamentals of biological, chemical and physical properties of soils. Laboratory exercises and/or field trips on major topics. 3 lecture hours; 2 lab hours per week. IAI: AG 904

AG 283 Field Crop Science  4 cr. hrs.
Basic principles applicable to the planting, cultivating and harvesting of the more important crops, their improvement, production methods and uses will be covered. Importance of field crops in providing food and fiber, methods of weed and insect control, study of diseases and their control, and new developments in crop production will be given emphasis. 3 lecture hours; 2 lab hours per week. IAI: AG 903

AG 285 Animal Science  4 cr. hrs.
A comprehensive view of the livestock industry as a science and based upon economic principles with emphasis on modern livestock management practice for beef, swine, dairy cattle and sheep. Laboratory to supplement lectures and discussions. 3 lecture hours; 2 lab hours per week. IAI: AG 902
AG 287 Introductory Agricultural Mechanics  4 cr. hrs.
An introductory agricultural mechanization course which includes agricultural power and machinery, agricultural electrification and application, agricultural structures and soil and water conservation as the major areas of study. 3 lecture hours; 2 lab hours per week. IAI: AG 906

AG 288 Agriculture of Developing Countries  3 cr. hrs.
An examination of the critical role played by agriculture in the economic development of third world countries. Agricultural production systems, policies and problems are evaluated in relation to the economic, social and political structures of selected countries and societies. 3 lecture hours; 0 lab hours per week.

AG 289 Microcomputer Skills for Agriculture  3 cr. hrs.
This course is designed to introduce the student to the concepts, principles and applications of microcomputers as they apply to agriculture and business. Students will learn agriculture and business applications of several common software packages in use today. Evaluation of current software will also be a focus. 2 lecture hours; 2 lab hours per week. IAI: AG 913

Banking

AIB 100 Principles of Banking  3 cr. hrs.
An overall survey of all bank operations. Designed to acquaint new and/or entry-level bank employees with the multiple functions performed by modern banks. 3 lecture hours; 0 lab hours per week.

AIB 102 Law and Banking  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Introduction to basic American law, presenting the rules of law which underlie banking. Emphasis is on the Uniform Commercial Code. 3 lecture hours; 0 lab hours per week.

AIB 103 Law and Banking Applications  3 cr. hrs.
Prerequisite: AIB 100 and BA 170 recommended.
An introduction to laws pertaining to secured transactions, letters of credit, and the bank collection process. 3 lecture hours; 0 lab hours per week.

AIB 104 Marketing for Bankers  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Examines six facets of contemporary marketing practices as they apply to the banking industry. These facets include: (1) product development; (2) marketing information systems and research; (3)competitive pricing policies; (4) distribution of products; (5)advertising; and (6) salesmanship. 3 lecture hours; 0 lab hours per week.

AIB 170 Accounting Principles I for Bankers  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
A basic course in accounting, emphasizing modern accounting practices and procedures set by the Financial Accounting Standards Board. 3 lecture hours; 0 lab hours per week.

AIB 180 Accounting Principles II for Bankers  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Builds upon the foundation acquired in Accounting I. Accounting II delves into policy analysis and management with an emphasis on detailed accounting functions and procedures. 3 lecture hours; 0 lab hours per week.

AIB 200 Money and Banking  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Stresses practical aspects of money and banking, and emphasizes the basic monetary theory needed by the banking student. 3 lecture hours; 0 lab hours per week.

AIB 202 Bank Management I  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
An introductory survey of planning, organizing, directing and controlling bank operations designed for prospective supervisory personnel. Includes a comprehensive review of financial statements, asset-liability management, deposit functions, and both short-term loan and long-term capital management. 3 lecture hours; 0 lab hours per week.

AIB 203 Bank Management II  3 cr. hrs.
Prerequisite: AIB 202 or consent of instructor.
A comprehensive, intensive study of contemporary management techniques and advanced banking policies and procedures. Focuses on strategic planning, organizational behavior theories, personnel management and computer-based control operations. Also emphasizes interest margin management, cost and pricing services, and expansion strategies. 3 lecture hours; 0 lab hours per week.

AIB 204 Analyzing Financial Statements  3 cr. hrs.
Prerequisite: AIB 100 and AIB 170 or consent of instructor.
Designed for consumer loan and consumer credit personnel. Provides a comprehensive overview of the consumer credit function. 3 lecture hours; 0 lab hours per week.

AIB 205 Consumer Lending  3 cr. hrs.
Prerequisite: AIB 100 and AIB 170 or consent of instructor.
Designed for consumer loan and consumer credit personnel. Provides a comprehensive overview of the consumer credit function. 3 lecture hours; 0 lab hours per week.

AIB 206 The Trust Business  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
 Presents a complete picture of the services rendered by the institutions engaged in trust business. 3 lecture hours; 0 lab hours per week.

AIB 207 Economics for Bankers  3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Introduces the fundamental principles of economics with special emphasis on the role of banks in the economic system. 3 lecture hours; 0 lab hours per week.
AIB 208 Financing Business Enterprise 3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Principles of lending and investing in the corporate situation as related to banking institutions. 3 lecture hours; 0 lab hours per week.

AIB 209 Commercial Lending 3 cr. hrs.
Prerequisite: AIB 100 and AIB 170 recommended.
Provides entry level commercial lending officers and trainees with the knowledge and skills necessary to effectively serve their bank's corporate clients and contribute to bank profitability. 3 lecture hours; 0 lab hours per week.

AIB 210 Bank Investments and Funds Management 3 cr. hrs.
Analyze the nature of primary reserves, rate-sensitive assets and liabilities, loanable funds and how these interact in generating profits for banks. Also explains the advantages of proper management of internal and external funds in maintaining the bank's liquidity position. 3 lecture hours; 0 lab hours per week.

AIB 212 Credit Administration 3 cr. hrs.
Explains the five aspects of evaluating the credit standing of businesses and individuals. These include: (1) character; (2) capacity; (3) collateral; (4) economic conditions; and (5) cash flow. Enables the banker to move from a subjective to an objective analysis of the potential of a loan applicant. 3 lecture hours; 0 lab hours per week.

AIB 213 Trust Operations 3 cr. hrs.
A study of securities, industry participation and ownership and transactions; type of trust accounts and services; cash transactions and management; and internal accounting controls. 3 lecture hours; 0 lab hours per week.

AIB 214 Installment Credit 3 cr. hrs.
Learn the techniques of installment lending, ranging from the legal aspects of a loan application and proper tracking of a loan to collecting the loan and the legal rights of the consumer regarding repossession, forfeiture and bankruptcy. 3 lecture hours; 0 lab hours per week.

AIB 216 International Banking 3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Basic analysis of monetary policies in foreign countries and their relationships to Federal Reserve Board policies. Also examines world-wide interest rates and structures, currency exchange practices and international letters of credit. Focuses on local banks' relationships with world-wide banks. 3 lecture hours; 0 lab hours per week.

AIB 218 Home Mortgage Lending 3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Covers the duties of mortgage loan officer, including property inspection and appraisal, analyzing the borrower's credit capabilities, legal and regulatory requirements and contract completion. Also analyzes the value of building and maintaining a diversified portfolio of loans to protect the bank's reputation and profitability. 3 lecture hours; 0 lab hours per week.

AIB 220 Savings and Time Deposit Banking 3 cr. hrs.
Prerequisite: AIB 100 or consent of instructor.
Historical development of savings institutions, the basic economic function of the savings process, and current operations and policies of savings institutions. 3 lecture hours; 0 lab hours per week.

AIB 221 Safe Deposit Basics .5 cr. hrs.
How to handle safe deposit box operations from certifying those patrons given access and monitoring usage to reviewing dormant boxes and processing estate executor's access thereto. .5 lecture hours; 0 lab hours per week.

AIB 222 Branch Management I 1 cr. hr.
Prerequisite: AIB 202 or consent of instructor.
The first in a three-part series of courses for managers. Covers basic personnel administration policies and procedures, management by objectives, motivational techniques, performance evaluation operations, and on-the-job conflict prevention, management and resolution. 1 lecture hour; 0 lab hours per week.

AIB 223 Branch Management II 1 cr. hr.
Prerequisite: AIB 222 or consent of instructor.
The second in a three-part series of courses for prospective bank managers. Emphasizes technical banking operations. These include processing basic consumer applications, legal and financial documentation policies and procedures, collateral assessment-verification-and risk management, and utilization of loan applicants' financial documents, e.g., asset statements-checking and savings accounts-insurance policies-and chattel/real property. 1 lecture hour; 0 lab hours per week.

AIB 224 Branch Management III 1 cr. hr.
Prerequisite: AIB 223 or consent of instructor.
The third in a three-part series of courses for current and/or prospective branch bank managers. Provides an overview of all branch operations and organizational policies and procedures. Includes an introduction to budget-management at the branch level. Also provides instruction in orienting, training, and supervising beginning tellers. 1 lecture hour; 0 lab hours per week.

AIB 225 Safe Deposit Operations 1 cr. hr.
Covers the rules and procedures of safe deposit operations. The importance of good customer relations, safe deposit security, and legal concerns are addressed. 1 lecture hour; 0 lab hours per week.

AIB 226 Real Estate Finance 3 cr. hrs.
Provides a comprehensive introduction to the real estate finance industry with an emphasis on the real estate loan products offered by commercial bankers. 3 lecture hours; 0 lab hours per week.
AIB 231 Product Knowledge: Key to Successful Selling  1 cr. hr.
Prerequisite: AIB 100 or consent of instructor.
Provides students with an understanding of the range of financial products a bank can offer and what needs these products meet. 1 lecture hour; 0 lab hours per week.

AIB 232 Knowing the Market  .5 cr. hrs.
Basic examination of any banking institution's marketing environment. Ranges from economic, social and political conditions in a community and state to the competitive nature of the locale's financial institutions. .5 lecture hours; 0 lab hours per week.

AIB 233 Customer Service for Bank Personnel  1 cr. hr.
Enables bank employees to establish contact with bank customers, explore customers' needs and wants, handle objections and close a sale. 1 lecture hour; 0 lab hours per week.

AIB 234 Quality Customer Service  1 cr. hr.
Tailored towards the bank employee with a high volume of customer contact. Emphasizes the development of better communication skills. 1 lecture hour; 0 lab hours per week.

AIB 235 Selling Bank Services: Human Relations Approach  1 cr. hr.
Prerequisites: AIB 100 and AIB 104.
Includes discussion of active listening, probing questions, presenting benefits and closing a sale. Shows how to approach a sales opportunity from a human relations stand-point. 1 lecture hour; 0 lab hours per week.

AIB 239 Concepts of Data Processing for Bankers  1 cr. hr.
Explains the value of Management Information Systems on any bank, including systems analysis, collecting, processing, and evaluating relevant financial data to monitor the efficiency of routine operations, identify problem areas and detecting notable trends. Includes networking processes and procedures. 1 lecture hour; 0 lab hours per week.

AIB 240 Management Fundamentals  3 cr. hrs.
Prerequisites: AIB 100 and AIB 170.
A detailed study of the basic functions and processes of management in a typical bank setting. Covers planning, organizing, directing, and controlling. Also emphasis on behavioral aspects of any organization, e.g., communicating, motivational skills, and resolving conflict. 3 lecture hours; 0 lab hours per week.

AIB 241 Introduction to Supervision  1 cr. hr.
This course helps ambitious bankers make the transition from employee to supervisor. Provides a basic introduction to supervisor's many roles, ranging from monitoring and mentoring to facilitating and coordinating the operations of a team of employees. Explains the value of delegating tasks and responsibilities as a means of empowering employees. Also includes a review of stress management techniques for employees and supervisors. 1 lecture hour; 0 lab hours per week.

AIB 243 Bank Security for Customer Contact Personnel  1 cr. hr.
Designed to prevent security problems by developing good security habits. Enables employees to detect and handle security threats. 1 lecture hour; 0 lab hours per week.

AIB 251 Personnel and the Law  1 cr. hr.
Prerequisite: AIB 100.
Explains the relationship between bank personnel management and federal and state laws related to personnel policies, procedures and practices. 1 lecture hour; 0 lab hours per week.

AIB 260 Written Communication  1 cr. hr.
Applies written communication principles to the banking industry. Discussion centers on purpose for writing and guidelines for writing business documents and papers. 1 lecture hour; 0 lab hours per week.

AIB 261 Oral Communication  1 cr. hr.
Teaches communication principles and applications of these principles necessary for personal and professional success in the banking industry. 1 lecture hour; 0 lab hours per week.

Anthropology

ANTH 101 Introduction to Physical Anthropology  3 cr. hrs.
Explores human origins, fossil records, human adaptation and variation, population genetics, and humankind’s place in world ecology. 3 lecture hours; 0 lab hours per week. IAI: SI 902

ANTH 102 Introduction to Cultural Anthropology  3 cr. hrs.
Introduction to culture, as an adaptive mechanism that provides for the survival of the human species that encompasses social organization, technology, economics, religion, and language as used by various peoples, in both traditional and technologically advanced societies. 3 lecture hours; 0 lab hours per week. IAI: SI901N

Archaeology

ARCH 203 Introduction to Archaeology  3 cr. hrs.
Introduces concepts, principles, and methods used to reconstruct cultural history and prehistory. Explores sequences of cultural development that have been learned through archeological analysis. 3 lecture hours; 0 lab hours per week. IAI: SI 903

ARCH 204 Archaeology in the Americas  1-4 cr. hrs.
Study of prehistoric Native American Society at the band, tribal, chieftain, state, and Imperial levels that covers the evolution of Native American cultures from their beginning to their initial contact with European civilization. 3 lecture hours; 2 lab hours per week.
ARCH 205 Field Methods in Archaeology  
3 cr. hrs.  
*Prerequisite: ARCH 203 recommended.*  
Introduces the student to laboratory and fieldwork techniques in Archaeology. 2 lecture hours; 2 lab hours per week.

**Art**

ART 100 Art Appreciation  
3 cr. hrs.  
Introduction of the world of fine and applied arts. Great works of art are examined as expressions of a culture, a historical period, the creative personality, and process of making art. 3 lecture hours; 0 lab hours per week. IAI: F2 900

ART 101 Visual Design  
3 cr. hrs.  
Open to all students. Fundamentals of two-dimensional design. Basic elements of art and their application to a wide variety of two-dimensional design projects emphasizes craftsmanship. 0 lecture hours; 6 lab hours per week. IAI: ART 907

ART 111 Visual Design  
3 cr. hrs.  
Open to all students. Fundamentals of three-dimensional design, utilizing a variety of materials. Projects examine these materials and probe the elements and principles of design as they relate to sculptural form. Craftsmanship is emphasized. 0 lecture hours; 6 lab hours per week. IAI: ART 908

ART 121 Drawing and Drawing Theory  
3 cr. hrs.  
Open to all students. Study of basic drawing techniques using traditional drawing media such as pencil, ink, charcoal and ink wash. Concentration on composition and craftsmanship. 0 lecture hours; 6 lab hours per week. IAI: ART 904

ART 122 Drawing and Drawing Theory  
3 cr. hrs.  
*Prerequisite: ART 121.*  
Emphasis on color and expressions in composition utilizing various drawing media such as pastels, colored pencils, ink, and other traditional drawing media. 0 lecture hours; 6 lab hours per week. IAI: ART 905

ART 130 Survey of Materials and Methods  
3 cr. hrs.  
An introduction to various materials and processes used by the artist in both fine art and commercial application. Safety and hazards of materials is emphasized. 0 lecture hours; 6 lab hours per week.

ART 200 Art Problems  
1-3 cr. hrs.  
Introduction and practical experience with various art media and technical processes. Each "workshop" emphasizes a different medium. No more than 3 semesters hours of this course may be applied toward a degree.

ART 201 Life Drawing  
3 cr. hrs.  
*Prerequisite: ART 121.*  
Basic figure drawing skills with emphasis on various media and individual approaches. An appreciation of the human form through the study of human anatomy and structure. 0 lecture hours; 6 lab hours per week. IAI: ART 906

ART 202 Life Composition  
3 cr. hrs.  
*Prerequisite: ART 201.*  
Investigation of the compositional design as it relates to the human form. Emphasis on individual expression and creativity. 0 lecture hours; 6 lab hours per week.

ART 209 Introduction to Painting I  
3 cr. hrs.  
An introduction to the materials and techniques of opaque and transparent watercolor media. Exercises in color theory and missing, composition and design, still life, landscape, and elementary drawing skills, matting and presentation. 0 lecture hours; 6 lab hours per week.

ART 210 Introduction to Illustration  
3 cr. hrs.  
*Prerequisite: Art 201.*  
The practices and techniques of illustration are explored with an emphasis on art created for the printed media. Advanced skills in drawing for visual communication are applied using a variety of materials and techniques. Students are instructed in process to develop their creative concepts. Projects address visual communications for magazine, book, editorial, advertising, and digital media. Emphasis on individual creativity and professional presentation is stressed. 0 lecture hours; 6 lab hours per week

ART 211 Painting  
3 cr. hrs.  
*Prerequisite: ART 101 or permission of instructor.*  
Study of the fundamentals and media of painting. Practical application emphasized in water-based-media and ground preparations with introduction to other paint media. 0 lecture hours; 6 lab hours per week. IAI: ART 911

ART 212 Painting  
3 cr. hrs.  
*Prerequisite: ART 211.*  
Advanced study of the technique, media, and compositional methods of painting. Individual media research and expression stressed. 0 lecture hours; 6 lab hours per week.

ART 221 Printmaking  
3 cr. hrs.  
Exploration of the "multiple" art media: block print, intaglio, serigraphy, and lithography. Emphasis on practical application. 0 lecture hours; 6 lab hours per week. IAI: ART 914

ART 230 Type and Digital Layout  
3 cr. hrs.  
*Prerequisite: Art 101 and Art 121 or permission of instructor.*  
Open to all students. The study of type and its usage from the calligraphic origins through historic uses to digital type. Emphasis will be placed on the use of type as a design element. 0 lecture hour; 6 lab hours per week.

ART 231 Photography  
3 cr. hrs.  
*Prerequisite: 35mm reflex camera*  
Basic tools and techniques of photography. Includes field trips and darkroom experience. 0 lecture hours; 6 lab hours per week. IAI: ART 917
**ART 232 Photography**  
*Prerequisite: ART 231 or permission of instructor.*  
Advanced camera and darkroom techniques, composition, and design, and their relationship to photography as an art form. 0 lecture hours; 6 lab hours per week.

**ART 241 Calligraphy and Layout**  
Open to all students. Study of historical styles of calligraphy with emphasis on practical usage. Projects include calligraphic exercises, illuminated scrolls, and "hand-made" books. 0 lecture hours; 6 lab hours per week.

**ART 246 Graphic Design**  
*Prerequisite: ART 101.*  
Examination of skills, techniques, and tools of the advertising and commercial arts. Projects provide experience in techniques and design elements as applied to graphic design. 0 lecture hours; 6 lab hours per week. IAI: ART 918

**ART 248 Commercial Art**  
*Prerequisite: ART 246, 101, 121 (ART 230 recommended).*  
The practice of advanced techniques applicable to visual communications in graphic design are explored. Electronic design and illustration, layout, and preparing art for reproduction in various mass media approaches. 0 lecture hours; 6 lab hours per week.

**ART 251 Sculpture**  
Investigation of the basic sculptural problems, methods and materials. Projects include clay and plaster portrait heads, wax figure studies, and wax and plaster abstract forms. 0 lecture hours; 6 lab hours per week. IAI: ART 913

**ART 252 Sculpture**  
*Prerequisite: ART 251.*  
Advanced problems and methods of sculptural forms which may include wood or stone carving, metal casting and fabrication, plaster fabrication, and fiberglass. Emphasis on individual research and media exploration. 0 lecture hours; 6 lab hours per week.

**ART 261 Jewelry**  
Open to all students. Studio experience with basic tools, materials and techniques as used in contemporary jewelry and metal design. Projects include hand fabrication as well as metal casting. 0 lecture hours; 6 lab hours per week. IAI: ART 915

**ART 262 Jewelry**  
*Prerequisite: ART 261.*  
Advanced techniques with tools and materials as used in contemporary jewelry and metal design. Individual research and creativity stressed. 0 lecture hours; 6 lab hours per week.

**ART 265 Weaving**  
A basic course in fabric structure, weaving materials and processes. Emphasis is on creative design with color, texture and fabric structures. 0 lecture hours; 6 lab hours per week. IAI: ART 916

**ART 271 Ceramics**  
Open to all students. Hand and wheel methods of clay construction. Examination of clay bodies, glazes, decoration methods, and kiln firing. 0 lecture hour; 6 lab hours per week. IAI: ART 912

**ART 272 Ceramics**  
*Prerequisite: ART 271.*  
Advanced exploration of throwing and decorative techniques, glaze composition and kiln firing. Emphasis on individual expression and creativity. 0 lecture hours; 6 lab hours per week.

**ART 281 History of Art**  
Open to all students. Survey of the great works of architecture, painting, and sculpture from the Ancient World to the Gothic Age. The historic development of Western art is emphasized. 3 lecture hours; 0 lab hours per week. IAI: F2 901, ART 901

**ART 282 History of Art**  
Open to all students. Survey of the great works of architecture, painting, and sculpture from the Renaissance into the twentieth century. The historical development of modern Western art traditions is emphasized. 3 lecture hours; 0 lab hours per week. IAI: F2902, ART 902

**ART 285 Survey of Asian Art**  
A course designed to provide students with an overview of the major Asian cultures and the art forms created by those cultures. Emphasis will be placed on the art forms, aesthetics and cultural ideologies. 3 lecture hours; 0 lab hours per week. IAI: F2 903N

**ART 290 Applications in Computer Art**  
An introduction to computer applications in the visual arts. A computer software based approach to visual image manipulation and generation, including the integration of computer hardware, software, and peripheral devices as tools to create and combine traditional and contemporary visual ideas as applied to art and design. 0 lecture hour; 6 lab hours per week. IAI: ART 919

**ART 299 Art Internship**  
1-3 cr. hrs.  
Prerequisite: Consent of instructor. Must have completed 65-68 hours of 5047 curriculum.  
For commercial art student with interest in design, graphic arts, computer-related field. Experience related to supervised work experience in preparation for future employment. 0 lecture hours; 5-15 lab hours per week.

**Astronomy**

**ASTR 101 Descriptive Astronomy**  
4 cr. hrs.  
For non-science majors. The solar system: structure and motions of the planets, comets, meteors, and origin and evolution of the solar system. 3 lecture hours; 2 lab hours per week. IAI: P1 906L
### ASTR 102 Descriptive Astronomy 4 cr. hrs.
For non-science majors. Stars: distances, motions, dimensions, structure, origin, and evolution. Structure of the Milky Way and other galaxies. Structure and origin of the universe. 3 lecture hours; 2 lab hours per week. IAI: P1 906L

### Automotive Mechanics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 100</td>
<td>Basic Vehicle Maintenance and Repair I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 101</td>
<td>Basic Vehicle Maintenance II</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 107</td>
<td>Engine Performance I</td>
<td>4 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 115</td>
<td>Wheel Alignment and Suspension</td>
<td>4 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 121</td>
<td>Auto Body I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 122</td>
<td>Auto Body II</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 207</td>
<td>Engine Performance II</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>AUTO 299</td>
<td>ASE Review</td>
<td>1 cr. hr.</td>
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</tbody>
</table>

### Business Administration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BA 110</td>
<td>Introduction to Business</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>BA 111</td>
<td>Business Relations I</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>BA 112</td>
<td>Business Relations II</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>BA 113</td>
<td>Business Relations III</td>
<td>1 cr. hr.</td>
</tr>
<tr>
<td>BA 121</td>
<td>Small Business Management</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>BA 160</td>
<td>Business Math I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>BA 170</td>
<td>Fundamentals of Accounting I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>BA 171</td>
<td>Fundamentals of Accounting Lab I</td>
<td>1 cr. hr.</td>
</tr>
</tbody>
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Prerequisites and other notes as indicated.
BA 180 Fundamentals of Accounting II  3 cr. hrs.
Prerequisite: BA 170.
Continues study of basic accounting principles and procedures as applied to corporations, manufacturing and merchandising businesses. With BA 170, is designed for two-year career program students desiring to enter business occupations, not for transfer to a four-year college. 3 lecture hours; 0 lab hours per week.

BA 181 Fundamentals of Accounting Lab II  1 cr. hr.
Prerequisite: Concurrent enrollment or previous completion of BA 180.
Uses computers to provide students with experience in data entry and computerized financial reporting on topics related to BA 180. Also uses the computer as an individual learning resource. Exercises, worksheets, and computerized practice problems are completed by the student. Not for transfer to a four-year college. 0 lecture hours; 2 lab hours per week.

BA 200 Special Studies  1-3 cr. hrs.
Prerequisite: Approval of Department Chairperson.
Independent study or group study designed to fit the needs of individual students. Workshops, seminars and selected course work offered to a unique group of students may be offered within this course. 1-3 lecture hours; variable lab hours per week.

BA 210 Financial Institutions and Markets  3 cr. hrs.
Overview of relationships between financial institutions, markets and investments. Analyzes the relationships between institutions, markets, government regulation and business cycles. 3 lecture hours; 0 lab hours per week.

BA 220 Business Math II  3 cr. hrs.
Prerequisite: BA 160 or consent of instructor.
An advanced introduction survey of mathematics (basic algebra and statistics) as used in complex business problems and situations. The emphasis will be on problem identification analysis and the application of and use of quantitative tools and techniques to solve them. 3 lecture hours; 0 lab hours per week.

BA 230 Principles of Marketing  3 cr. hrs.
An in-depth analysis of major contemporary marketing concepts and practices. Covers marketing environments and trends, product development, pricing practices, distribution networks and relationships with advertising agencies and sales forces. 3 lecture hours; 0 lab hours per week.

BA 236 Introduction to Advertising  3 cr. hrs.
Prerequisite: BA 110 and BA 230 or consent of instructor.
The role of advertising in a consumer-oriented market is intensively analyzed. Topics range from the development of advertising campaigns to actual preparation of a mini-campaign for a local business, industry or charitable organization. 3 lecture hours; 0 lab hours per week.

BA 238 Salesmanship  3 cr. hrs.
Prerequisite: BA 110 and BA 230 or consent of instructor.
Analyzes activities and processes of the professional sales presentation including prospecting, approaching, demonstration, meeting objections, and closing a sale. Studies characteristics and attributes of successful sales professionals. 3 lecture hours; 0 lab hours per week.

BA 240 Principles of Management  3 cr. hrs.
Suggested prior course: BA 110.
A detailed study of the basic functions and processes of management in a typical organizational setting. Includes coverage of planning, organizing, directing, and controlling, with emphasis on communication, leadership, group dynamics, and motivation. 3 lecture hours; 0 lab hours per week.

BA 242 Principles of Supervision  3 cr. hrs.
Course deals with the responsibilities of the supervisor or leader in the industrial and administrative environment. Leadership qualities, human relations skills, motivation, communication, training techniques, and problem of the work group are discussed. 3 lecture hours; 0 lab hours per week.

BA 243 Developing Team Skills  3 cr. hrs.
A basic course introducing the team dynamics such as the formation of teams, stages of team development, strengths and weaknesses of teams and the practical application to team skills. 3 lecture hours; 0 lab hours per week.

BA 244 Women in Management  3 cr. hrs.
Combines the basic managerial principles and theory that all managers need with alternative solutions to the unique problems that women face becoming managers. Study of the functions of a manager including planning, organizing, directing and controlling. 3 lecture hours; 0 lab hours per week.

BA 245 Business Entrepreneurship  1-3 cr. hrs.
A highly motivational hands-on course designed to prepare the beginning entrepreneur to establish, operate and maintain his or her own business with emphasis on each student's personal needs. Students will do preliminary research, write a business plan, apply for financing, and prepare organization, managerial, and marketing plans. 3 lecture hours; 0 lab hours per week.

BA 246 Purchasing  3 cr. hrs.
This introductory course will cover the primary components of purchasing as a management function. Discussed will be the close cooperation required between purchasing and other functions of the business, i.e.: marketing, advertising and sales forces. The course will lead to a greater awareness of how purchasing can affect the profitability/efficiency of a business, demand, management, organization, and inventory control within business. 3 lecture hours; 0 lab hours per week.
BA 247 Business Management Internship  1-4 cr. hrs. 
Prerequisite: Consent of department chair or the Management and Marketing Curriculum Coordinator.
A supervised work experience providing on-the-job training in a business firm for students enrolled in various business career curricula of the Department of Business (QCC) or Department of Business and Technology (EC). 0 lecture hours; 5-20 lab hours per week.

BA 249 Business Management Seminar  1 cr. hr. 
Prerequisite: Concurrent enrollment in BA 247 required.
Designed exclusively for Business Management and Marketing Interns enrolled in BA 247. Provides intensive review and evaluation of on-the-job experience. 1 lecture hour; 0 lab hours per week.

BA 250 Human Resource Management  3 cr. hrs. 
Prerequisite: BA 100 and BA 240 recommended.
Basic understanding of current practice in the field. Covers staffing, development, methodology, labor relations, and wage and salary administration. 3 lecture hours; 0 lab hours per week.

BA 251 Organizational Behavior  3 cr. hrs. 
Study covers individual, interpersonal and group behavior in organizations. Motivation, power, influence, communication, leadership development, evaluation systems in business and industry. 3 lecture hours; 0 lab hours per week.

BA 252 Pay and Benefits Administration  3 cr. hrs. 
Prerequisites: BA 240, BA 250, BA 242 recommended.
Examination of the total compensation package including wages, executive salaries, pensions, insurance, cafeteria/multi-employer plans and other benefits. A look at historical perspective, current status and future trends in compensation management. 3 lecture hours; 0 lab hours per week.

BA 260 Business Financial Management I  3 cr. hrs. 
Prerequisite: BA 170 or consent of instructor.
Introductory course in financial management, stressing an understanding of business finance, allocation of funds within a business and raising of funds. 3 lecture hours; 0 lab hours per week.

BA 262 Principles of Insurance  3 cr. hrs. 
A comprehensive survey of business and consumer insurance. Covers the principles and purposes of all major kinds of insurance: automobile, casualty, fire, health and property insurance. 3 lecture hours; 0 lab hours per week.

BA 263 Accounting Specialist Internship  3 cr. hrs. 
Prerequisite: Consent of instructor and Department of Business Chair.
A supervised work-experience program providing on-the-job training in a business firm for students enrolled in accounting programs of the Department of Business and Information Technology. 0 lecture hours; 15 lab hours per week.

BA 264 Internship II  3 cr. hrs. 
Prerequisite: Consent of instructor and Department of Business Chair.
A supervised work experience program providing on-the-job training in a business firm for students enrolled in accounting programs of the Department of Business and Information Technology. 0 lecture hours; 15 lab hours per week.

BA 266 Business Policy and Ethics  3 cr. hrs. 
Prerequisite: Concurrent enrollment in BA 278 and consent of instructor.
An introduction to ethical decision making in business. Special attention is given to making informed ethical decisions on a daily basis. Models of ethical and unethical decision making are analyzed. 3 lecture hours; 0 lab hours per week.

BA 270 Introduction to International Business  3 cr. hrs. 
Prerequisite: BA 100 and BA 240 recommended.
This course provides an overview and a basic understanding of current world activities, practices, and governmental aids and barriers to international trade. Exploration of various economic, geographic, political, and cultural differences affecting international trade. 3 lecture hours; 0 lab hours per week.

BA 272 International Marketing  3 cr. hrs. 
Students will learn of the challenges posed when marketing in the international marketplace and how marketers approach and solve them. Topics covered will include market entry strategies, effects of culture on marketing, product design, sales, and analysis of foreign markets. There will be a strong emphasis on exporting. 3 lecture hours; 0 lab hours per week.

BA 274 The Global Economy  3 cr. hrs. 
Prerequisite: Concurrent enrollment in BA 278 and consent of instructor.
A basic class which examines why nations trade, the effects of barriers to trade, trade policies, and the formation of trading arrangements between countries. The course also examines exchange rates, as well as the impact of developing countries and environmental factors on international trade and finance. 3 lecture hours; 0 lab hours per week.

BA 276 International Internship  1-3 cr. hrs. 
Prerequisite: Concurrent enrollment in BA 278 and consent of instructor.
A supervised work-experience program providing on-the-job training in a business firm for students enrolled in the international business program. 0 lecture hours; 15 lab hours per week.

BA 278 International Seminar  1 cr. hr. 
Discussion of internship activities. 1 lecture hour; 0 lab hours per week.

BA 280 Introduction to ECommerce  3 cr. hrs. 
Prerequisite: Consent of instructor.
This course presents a comprehensive summary of the nature and environment of electronic commerce. Topics include designing the digital enterprise, customer empowerment, e-Commerce models, e-Commerce business plan, e-Commerce trends, governmental influences, and defining a cyber community. 3 lecture hours; 0 lab hours per week.
BA 282 Documentation for International Business  
2 cr. hrs.  
This course provides the student with a working knowledge of the wide variety of documents necessary to conduct international trade. Documentation requirements for both import and export transactions will be explored, U.S. customs documents, transportation documents, financial documents, and insurance documents will be covered. 2 lecture hours; 0 lab hours per week.

BA 284 Marketing for ECommerce  
3 cr. hrs.  
This course provides an awareness of marketing issues, trends, and barriers in a digital environment. Web page design, trends, and practices will be explored. Students will design a digital marketing plan for a business and design Web pages for simulated small businesses. 3 lecture hours; 0 lab hours per week.

BA 286 Managerial Strategy for ECommerce  
3 cr. hrs.  
Students will develop Web page strategies, develop wage pages, develop digital managerial policies for simulated digital businesses, and evaluate Web pages for firms in multiple cultures. 3 lecture hours; 0 lab hours per week.

BA 287 International Business Cultures  
1-3 cr. hrs.  
This course explores non-Western business cultures, focusing on the business cultures of South America, Africa, Eastern Europe, and Asia; focusing on communication patterns, perspectives of work, and decision-making processes in business and how they differ from business practices and protocol found in the U.S. and Western Europe. 3 lecture hours; 0 lab hours per week.

BA 288 The U.S. Business Culture  
3 cr. hrs.  
This course acquaints students with the U.S. business culture. Topics include gender issues, organized labor, rewards and punishments, promotions, legal issues, attire, employee rights, and nonverbal communication. 3 lecture hours; 0 lab hours per week.

BA 290 Accounting Applications I  
2 cr. hrs.  
Prerequisite: Concurrent enrollment in BA 110 or permission of instructor.  
This practicum is a hands-on course primarily covering payroll systems, payroll tax forms (all federal/state/local), and sales tax forms. 1 lecture hour; 2 lab hours per week.

BA 291 Accounting Applications II  
2 cr. hrs.  
Prerequisites: BA 170 and 180 or permission by the instructor.  
Emphasis on governmental fund accounting, preparing computer generated statements for governmental funds, proprietary funds, fixed asset and long-term debt groups. 1 lecture hour; 2 lab hours per week.

Business Education

BE 100 Work Environment Orientation  
2 cr. hrs.  
This course is intended to introduce the facts, skills, strengths, and career goals necessary for success in the business education curricula. 2 lecture hours; 0 lab hours per week.

BE 101 Office Accounting  
3 cr. hrs.  
Designed as an introductory accounting course for business students with emphasis on the accounting cycle and small business transactions in a user-oriented environment for students with little computer experience. 3 lecture hours; 0 lab hours per week.

BE 106 Records Management  
3 cr. hrs.  
Management of records using ARMA rules. Emphasis is on current business practices, systems, supplies, and computers in records control, retrieval, disposal, and database management. 3 lecture hours; 0 lab hours per week.

BE 110 Data Entry Applications  
2 cr. hrs.  
Designed to teach data entry skills, to help the student develop dexterity and accuracy in keyboarding alphabetic and alphanumeric characters, and to help the student become familiar with common data entry procedures, including voice input. 2 lecture hours; 0 lab hours per week.

BE 122 Administrative Support Systems  
3 cr. hrs.  
Discussion of attitudes, ethics, professional conduct, global market awareness, and effective procedures for encouraging teamwork and discouraging workplace harassment. Emphasis on telecommunications, meeting planning, proofreading and grammar review, time management, organizational tools for electronic offices, and methods to research information for business use. 3 lecture hours; 0 lab hours per week.

BE 140 Basic Keyboarding  
1 cr. hr.  
Keyboard mastery; speed and accuracy development. Taught on microcomputers. 0 lecture hours; 2 lab hours per week.

BE 141 Computerized Keyboarding I  
3 cr. hrs.  
Keyboard mastery and document formatting using a current word processing software package. 3 lecture hours; 0 lab hours per week.

BE 142 Computerized Keyboarding II  
3 cr. hrs.  
Prerequisite: BE 141 completed with a “C” or higher or equivalent skill.  
Speed and accuracy building in producing business documents. 3 lecture hours; 0 lab hours per week.

BE 144 Concepts of Information Processing  
3 cr. hrs.  
Prerequisite: Basic keyboarding skills.  
Introduction to information processing history and current emphasis on current terminology. An understanding of why computers are essential components in the business world and society. Hands-on activities with use of the World Wide Web as a media of the latest information. 3 lecture hours; 0 lab hours per week.
BE 145 Information Processing  3 cr. hrs.
Prerequisite: BE 141 or equivalent skill.
Students learn word processing software most commonly found in area offices. When offered online, this course is equivalent to BE 145A, 145B, and 145C. 3 lecture hours; 0 lab hours per week.

BE 145A Information Processing I  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Students learn word processing software most commonly found in area offices. 1 lecture hour; 0 lab hours per week.

BE 145B Information Processing II  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Students learn word processing software most commonly found in area offices. 1 lecture hour; 0 lab hours per week.

BE 145C Information Processing III  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Students learn word processing software most commonly found in area offices. 1 lecture hour; 0 lab hours per week.

BE 146 Information Processing II  1-3 cr. hrs.
Prerequisite: BE 141 or equivalent skill.
Use of current spreadsheet software on microcomputers. 3 lecture hours; 0 lab hours per week.

BE 147 Intro to Microsoft Office  4 cr. hrs.
Prerequisite: BE 141 or equivalent keyboarding skill.
Mastery of the Microsoft Office programs, including Word, Access, Excel, and PowerPoint. 4 lecture hours; 0 lab hours per week.

BE 148 Beginning Medical Transcription  4 cr. hrs.
Prerequisite: BE 141 or equivalent skill.
Introduction to transcription of medical reports. 4 lecture hours; 0 lab hours per week.

BE 151 Legal Terminology and Procedures  3 cr. hrs.
Prerequisite: BE 141 and BE 145A.
Emphasis is on definitions, spelling, and pronunciation of legal terms. Familiarizes students with various fields of law and the proper presentation of legal documents. 3 lecture hours; 0 lab hours per week.

BE 156 Introduction to Health Insurance  3 cr. hrs.
Introduce students to health insurance industry; present step-by-step procedures for generating, processing, and submitting health insurance claims to commercial, private, and governmental health insurance programs. 3 lecture hours; 0 lab hours per week.

BE 160 Machine Transcription  3 cr. hrs.
Prerequisite: BE 142 or equivalent skill.
Development of machine transcription and proofreading skills using computer word processing software. 3 lecture hours; 0 lab hours per week.

BE 161 Introduction to Microsoft Windows  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Includes the skills necessary to use the Windows operating system. Includes a working knowledge of the Windows environment, as well as file management and Windows customization. 1 lecture hour; 0 lab hours per week.

BE 162 Introduction to Spreadsheets  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Includes features of current Windows-based spreadsheet software. 1 lecture hour; 0 lab hours per week.

BE 163 Presentation Graphics  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Includes features of current Windows-based presentation graphics software. 1 lecture hour; 0 lab hours per week.

BE 164 Introduction to Database Management  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Includes features of current Windows-based database management software. 1 lecture hour; 0 lab hours per week.

BE 165 Internet  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Study of the resources, complexities, and the distinctive culture of the Internet. Examines the most widely used tools for accessing the Internet. Guides students in fulfilling research needs and developing job seeking skills. 1 lecture hour; 0 lab hours per week.

BE 166 Web Page Development  1 cr. hr.
Prerequisite: BE 141 or equivalent keyboarding skill.
Using HTML and other development tools to create and maintain Web documents. 1 lecture hour; 0 lab hours per week.

BE 167 Integrating Windows Applications  1 cr. hr.
Integration of Microsoft Office Professional applications. 1 lecture hour; 0 lab hours per week.

BE 168 Introduction to MS Office Professional  2 cr. hrs.
Includes the basic features of MS Windows and Microsoft Office Professional. 2 lecture hours; 0 lab hours per week.

BE 170 Beginning Web Page Development  3 cr. hrs.
Prerequisite: BE 145 or equivalent knowledge of Word for Windows; BE 141 or equivalent knowledge of keyboarding.
This course will teach Internet use and research skills. It will also introduce Web page design, including basic HTML code, basic graphic manipulation, posting a Web page on the Internet using FTP, Web page server options, and Web site design techniques. 3 lecture hours; 0 lab hours per week.

BE 171 Web Software Development Tools  3 cr. hrs.
Prerequisite: BE 170 or equivalent knowledge.
This course will review and expand students' understanding of HTML code and graphic manipulation using Macromedia Fireworks. It will also include the use of two HTML editors: Microsoft FrontPage and Macromedia Dreamweaver. Students in this course will be able to design, post, and make changes to
Web sites using these software applications, in addition to creating/editing Web graphics using Macromedia Fireworks. 3 lecture hours; 0 lab hours per week.

**BE 180 Business Communications** 4 cr. hrs.  
Prerequisite: See Assessment and Orientation, page 27.  
Techniques of effective written communications for business. This will include psychology of communicating with customer service emphasis, focus on international communications, and accuracy and conciseness needed for in-house e-mail. 4 lecture hours; 0 lab hours per week.

**BE 200 Advanced Medical Terminology** 3 cr. hrs.  
Prerequisite: BIOL 150 completed with a C or higher.  
Building a strong medical vocabulary, emphasis on extensive medical specialties anatomy, diagnostic and treatment procedures, progress of student from word recognition to usage in medical reports. 3 lecture hours; 0 lab hours per week.

**BE 243 Computerized Keyboarding III** 3 cr. hrs.  
Prerequisite: BE 142 completed with a C or higher or equivalent skill.  
Skill building and integration of production work typically found in today's offices. 3 lecture hours; 0 lab hours per week.

**BE 245 Information Processing Applications** 1-3 cr. hrs.  
Prerequisite: BE 141 or equivalent.  
May consist of any of the following: Windows programs (i.e., Microsoft Office - Excel, Access, Word, PowerPoint; WordPerfect for Windows), Macintosh programs. Check your local campus offerings. 1-3 lecture hours; 0 lab hours per week.

**BE 245A Word Processing I** 1 cr. hr.  
Prerequisite: BE 141 or equivalent skill.  
Basic features of current Windows-based word processing software. 1 lab hour; 0 lab hours per week.

**BE 245B Word Processing II** 1 cr. hr.  
Prerequisite: BE 141 or equivalent skill.  
Includes intermediate features of current Windows-based word processing software. 1 lecture hour; 0 lab hours per week.

**BE 247 Advanced Information Processing Applications** 3 cr. hrs.  
Prerequisite: BE 141 or equivalent skill, knowledge of Windows, Word, Excel, and Access.  
Use of current software that can be integrated to perform applications which may include word processing, spreadsheets, databases, and presentation programs. 3 lecture hours; 0 lab hours per week.

**BE 249 Management of Health Info** 3 cr. hrs.  
Create an understanding of management principles as they apply to various health information management settings. The student will see the health information manager job as that of a broker-including data capture, analysis, integration, and information dissemination in the health information area. Each major management function is addressed: planning, organizing, leading, and controlling. 3 lecture hours; 0 lab hours per week.

**BE 248 Desktop Publishing** 3 cr. hrs.  
Prerequisite: BE 141 and BE 145 or equivalent skills.  
Use of current software to produce a variety of documents incorporating desktop publishing features and principles of layout and design. 3 lecture hours; 0 lab hours per week.

**BE 250 Advanced Medical Transcription** 4 cr. hrs.  
Prerequisite: BE 150, BE 148, and BE 142 completion with a grade of “C” or above.  
Machine transcription of medical reports. Emphasis on punctuation, spelling, and proofreading. 4 lecture hours; 0 lab hours per week.

**BE 251 Medical Office Procedures** 3 cr. hrs.  
Prerequisite: BE 142 or equivalent, BIOL 150.  
Administration of the medical office; insurance, professional and business records. 3 lecture hours; 0 lab hours per week.

**BE 252 Pharmacology Terminology** 3 cr. hrs.  
Prerequisite - BIOL 150 completion with a grade of C or better.  
Emphasis is on spelling, abbreviations, pronunciation, drug names and references and bodily effects of drugs. Drug classifications. 3 lecture hours; 0 lab hours per week.

**BE 253 Legal Transcription** 3 cr. hrs.  
Prerequisite: BE 151 and BE 142.  
Transcription of legal documents. Emphasis on accuracy of transcription, formatting, and proofreading. 3 lecture hours; 0 lab hours per week.

**BE 254 Law Liability and Medical Ethics** 3 cr. hrs.  
A careful examination of health legislation and health policy implementation. Student will become aware of legal aspects of handling information and ethics involved in management of medical information. Case studies will be used to provide problem solving. 3 lecture hours; 0 lab hours per week.

**BE 255 Medical Manager Software** 3 cr. hrs.  
Prerequisite: BE 251 and BE 200 with a grade of C or better.  
Administration of the medical office with use of "Medical Manager" practice management software. Hands-on computer experience with Medical Manager software. Students will gain knowledge and understanding of how accounts receivable, billing, collections and reporting are electronically performed. 3 lecture hours; 0 lab hours per week.

**BE 257 Procedure and Diagnosis Coding I** 3 cr. hrs.  
Coding (CPT-4) (ICD-9/10) is the translation of diagnoses, procedures, services, and supplies into numeric/alphanumeric components for statistical reporting and reimbursement. 3 lecture hours; 0 lab hours per week.
BE 258 Procedures & Diagnosis Coding II 3 cr. hrs.
Advanced coding (CPT-4) (ICD-9/10) including surgical, in-patient, out-patient, multiple diagnoses, and procedures. 3 lecture hours; 0 lab hours per week.

BE 260 Office Management 3 cr. hrs.
Study of information management and work flow. Principles of management as applied to the business office. Keyboarding is not required. 3 lecture hours; 0 lab hours per week.

BE 261 Seminar 1 cr. hr.
Prerequisite: Concurrent enrollment in BE 265 and consent of internship coordinator.
Discussion of internship activities. 1 lecture hour; 0 lab hours per week.

BE 264 Introduction to Database Management 3 cr. hrs.
Prerequisite: BE 141 or CS 100.
Features of current Windows based database management software. Project work necessary to business database use. 3 lecture hours; 0 lab hours per week.

BE 265 Internship 3 cr. hrs.
Prerequisite: Concurrent enrollment in BE 261 and consent of internship coordinator.
Supervised field program providing work experience in offices for students enrolled in office careers. 0 lab hours; 5 hours work per week per credit hour.

BE 299 Independent Study .5-4 cr. hrs.
Designed to fit the needs of individual students or groups. .5-4 lecture hours; 0 lab hours per week.

Biology

BIOL 100 Introduction to Biology 4 cr. hrs.
Intended for non-science majors. This course provides an introduction to important biological principles: (1) cellular biology including chemistry of life, cell structures, cell division, cell metabolism, classical and molecular genetics; (2) organismal biology including diversity, evolution, and ecology. 3 lecture hours; 2 lab hours per week. IAI: L1 900L

BIOL 101 General Human Biology 4 cr. hrs.
Intended for non-science majors. Primary organism of study is the human with current biological principles stressed. Includes cell organization, diseases of the human, development, genetics and ecology. 3 lecture hours; 2 lab hours per week. IAI: L1 904L

BIOL 105 General Biology I 5 cr. hrs.
This course includes the principles of cellular and molecular biology including chemistry of life, metabolism, photosynthesis, classical and molecular genetics, and cellular reproduction. 4 lecture hours; 3 lab hours per week. IAI: L1 900L; BIO 912; CLS 902

BIOL 106 General Biology II 5 cr. hrs.
Prerequisite: BIOL 105 or consent of instructor.
For science and pre-professional majors and those with strong interest in science. This course includes principles of organismic population and community biology including reproduction, development, homeostasis, behavior, ecology, and evolution. 4 lecture hours; 3 lab hours per week. IAI: BIO 911; CLS 901

BIOL 108 Principles of Biology I 4 cr. hrs.
The first of a two semester sequence in introductory biology which covers the chemistry of living organisms, cellular biology, respiration, photosynthesis, classical and molecular genetics and biotechnology. 3 lecture hours; 2 lab hours per week. IAI: L1 900L

BIOL 109 Principles of Biology II 4 cr. hrs.
Prerequisite: BIOL 108 or consent of instructor.
The second of a two semester sequence in introductory biology which covers animal structure and function, plant structure and function, ecology and animal behavior. 3 lecture hours; 2 lab hours per week.

BIOL 120 Nutrition 3 cr. hrs.
Reviews current nutritional concepts and controversies including macronutrients, micronutrients, diet analysis, traditional and fad diets, malnutrition and under-nutrition and the nutritional needs of pregnancy, infancy and other stages of life. 3 lecture hours; 0 lab hours per week.

BIOL 135 Evolution of Microbes and Humans 3 cr. hrs.
The co-evolution of microbe and human populations will be examined. The changes brought about by mankind on the environment as well as the adaptation of microbes to those changes will be studied. Through the microworld we will explore ecological diversity. Epidemic disease will be examined as an indicator of ecological disruption. Patterns of overpopulation, environmental changes, and exposure to new disease will be studied in the wake of each new pandemic. Diversity and interdependence of living organisms will be viewed as they relate to microorganisms and humans. 2 lecture hours; 2 lab hours per week. IAI: L1 903L

BIOL 145 Anatomy Physiology I 4 cr. hrs.
Prerequisite: Score of 43 or above on ASSET Reading Test and one year of high school biology are required. If it has been over five years since student has graduated from high school, one semester of college biology (BIOL 100, 101, or 105) is required. One year of high school chemistry is highly recommended.
A systematic study of the anatomical-physiological aspects of the human body. Topics include homeostasis, biomolecules, cytology, histology, as well as integumentary, skeletomuscular, nervous and endocrine systems. 3 lecture hours; 2 lab hours per week. IAI: CLS 903; NUR 903
**BIOL 146 Anatomy Physiology II** 4 cr. hrs.  
Prerequisite: BIOL 145; an ASSET reading score of 43 or above is required.  
Continuation of BIOL 145. Systematic study of cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Fluids, electrolytes, acid-base balance, metabolism, and human development are also studied. 3 lecture hours; 2 lab hours per week. IAI: L1 902L

**BIOL 150 Medical Terminology** 3 cr. hrs.  
For medical secretaries, physical therapy assistants, and persons in other health related occupations. Stresses building and spelling of medical terms using prefixes, root words, combining forms and suffixes. 3 lecture hours; 0 lab hours per week.

**BIOL 190 General Zoology** 4 cr. hrs.  
An introduction to animal biology, with emphasis on science, evolution, adaptations, animal diversity, and physiology. 2 lecture hours; 4 lab hours per week. IAI: L1 902L

**BIOL 200 Environmental Biology I** 3 cr. hrs.  
Familiarizes the students with dimensions, complexities, and gravity of man's impact on the earth. Includes growth strategies, human demography, ecosystem structure and function, eco-agro conflicts, food production limits. 3 lecture hours; 0 lab hours per week. IAI: L1 905

**BIOL 201 Environmental Biology II** 3 cr. hrs.  
Extension of BIOL 200 (but not required for this course). Covers habitat destruction, extinction, introduction of exotics, biocides, limits to growth, water, air, and ground pollution, and the stationary state. 3 lecture hours; 0 lab hours per week. IAI: L1 905

**BIOL 205 Ecology and Field Biology** 4 cr. hrs.  
Prerequisite: BIOL 105 and BIOL 106 or consent of instructor  
An introduction to the study of organisms in their natural environments. The emphasis will be on the ecological principles and techniques most relevant to the understanding and/or learning of biology in the field. 2 lecture hours; 4 lab hours per week.

**BIOL 207 Selected Topics in Biology** 1-2 cr. hrs.  
This course is designed to satisfy specific needs or interests of students in the biological sciences. This course can be taken to: 1) provide students with library research skills on topics of special interest; 2) provide students with laboratory or field research techniques and/or research projects; 3) provide students an opportunity to obtain college credit for structured biological field trips with a qualified instructor and 4) provide students with a chance to study selected biological topics. The course may be repeated once for a maximum of four credit hours if the topic varies. All offerings must be approved in advance by the majority of the tenured faculty of the Biological Sciences area. 1-2 lecture hours; 0 lab hours per week.

**BIOL 210 Local Flora** 3 cr. hrs.  
A study of identification of local plant species. Emphasis will be placed on identification of species by using a key and anatomical characteristics of plants. Species will be collected and preserved properly and a personal herbarium prepared. Interrelationships between plant species and their environments will be studied. 1 lecture hour; 4 lab hours per week. IAI: L1901L

**BIOL 211 General Botany** 4 cr. hrs.  
Prerequisite: BIOL 105 or 2 semesters of high school biology or consent of instructor.  
Study of plants emphasizing structure, physiology, growth, ecology, botanical keys and identification of trees; also includes classification and life cycles. 2 lecture hours; 4 lab hours per week. IAI: L1 906

**BIOL 250 Genetics** 3 cr. hrs.  
Prerequisite: BIOL 105 or 145 or consent of instructor.  
An introduction to the principles of Mendelian and non-Mendelian genetics, immunogenetics and population genetics. Genetic technology, genetic diseases and genetic counseling are also discussed. 3 lecture hours; 0 lab hours per week. IAI: L1 905

**BIOL 261 Microbiology** 4 cr. hrs.  
Prerequisite: BIOL 105 or 145 or consent of instructor.  
The study of microorganisms including historical background, morphology, physiology, growth, identification, genetics, control, immunology, and diseases. Laboratory is stressed. 3 lecture hours; 2 laboratory hours per week. IAI: CLS 905

**Business Law**

**BL 110 Business Law and Risk Protection** 1 cr. hr.  
This course is designed to acquaint the student with federal, state and local laws that affect the daily operation of a small business as well as insurance information. 1 lecture hour; 0 lab hours per week.

**BL 201 Business Law I** 3 cr. hrs.  
Prerequisite: BA 110 recommended.  
A general survey of the basic principles, systems and practices of American law including government agencies and regulation, alternative dispute resolution, torts, employment law, bankruptcy, international law, and consumer protection. 3 lecture hours; 0 lab hours per week. IAI: BUS 913

**BL 202 Business Law II** 3 cr. hrs.  
Prerequisite: BL 201 suggested but not required.  
An intensive analysis of law as used in business. Topics include contract law, commercial paper, sales law, partnership and corporation law, and real property transfers. 3 lecture hours; 0 lab hours per week. IAI: BUS 912

**Carpenter Apprentice**

**CA 299 Carpenter Internship** 8 cr. hrs.  
Supervised work experience in a worksite setting; 1,280 hours. 0 lecture hours; 16 lab hours per week.
Child Development

**CD 100 Introduction to Early Childhood**  
1-3 cr. hrs.  
General overview of the history, the present and future outlook of early childhood education. Students study types of early childhood programs, develop techniques and observational skills of working with young children and families, and investigate early childhood career paths. 1-3 lecture hours; 0 lab hours per week. IAI: ECE 911

**CD 102 Role of Teacher Assistant**  
1-2 cr. hrs.  
Duties and responsibilities of the teacher aide in the total educational setting. 1-2 lecture hours; 0 lab hours per week.

**CD 200 Growth and Development of Young Child**  
1-3 cr. hrs.  
Covers social, emotional, physical and intellectual aspects of child growth and development from birth through adolescence. Emphasis is on the stages of development and understanding these factors in working with children. 1-3 lecture hours; 0 lab hours per week. IAI: EED 902, ECE 912, SPE 913

**CD 201 Health, Safety and Nutrition**  
1-3 cr. hrs.  
Acquaints students with basic health, safety, and nutrition and their relationship towards the healthy development of children. Overview of health-related guidelines for early childhood settings. 1-3 lecture hours; 0 lab hours per week.

**CD 202 Observation and Guidance of Young Child**  
1-3 cr. hrs.  
Studies observational techniques and guidance practices which facilitate the development of the young child. Theories are provided that support an analysis of child behavior as well as the development of guidance techniques. Students will develop and understand the relationship between careful observation, communication, and effective interaction with children. .5-1 lecture hours; 2-4 lab hours per week. IAI: EED 904, ECE 914

**CD 203 Curriculum for Early Childhood Programs**  
1-3 cr. hrs.  
Curriculum planning according to developmental needs of children in early childhood settings. Theories of curriculum development will be analyzed and applied to early childhood settings. 1-3 lecture hours; 0 lab hours per week.

**CD 204 Child Development Practicum I**  
1-4 cr. hrs.  
Prerequisite: CD 200.  
Student spends ten hours a week under supervision working with preschool children in an early childhood setting. .5-2 lecture hours; 3-10 lab hours per week. IAI: ELE 914

**CD 205 Language Development and Activities for Young Child**  
1-3 cr. hrs.  
Techniques and methods of encouraging communication skills in young children. Overview of language development, children’s literature and developmentally appropriate language activities in the early childhood setting. 1-3 lecture hours; 0 lab hours per week.

**CD 206 Creative Activities for Young Children**  
1-3 cr. hrs.  
Introduces students to a wide variety of media suitable for use with the young child. Emphasis placed on creative activities: art, language, music, movement, math, and science. 1-3 lecture hours; 0 lab hours per week.

**CD 207 Music for Young Children**  
3 cr. hrs.  
Introduction to musical techniques and materials to use with young children. 3 lecture hours; 0 lab hours per week.

**CD 209 Play and Rhythmic Activities**  
1-2 cr. hrs.  
Acquaints student with normal play and movements of young children. 3 lecture hours; 0 lab hours per week.

**CD 210 Language Development and Activities for Young Child**  
1-3 cr. hrs.  
Introduces students to a wide variety of media suitable for use with the young child. Emphasis placed on creative activities: art, language, music, movement, math, and science. 1-3 lecture hours; 0 lab hours per week.

**CD 211 Education of the Gifted Child**  
3 cr. hrs.  
Covers social, emotional, physical and intellectual aspects of child growth and development from birth through adolescence. Emphasis is on the stages of development and understanding these factors in working with children. 1-3 lecture hours; 0 lab hours per week. IAI: EED 902, ECE 912, SPE 913

**CD 212 Survey of Children with Special Needs**  
1-3 cr. hrs.  
Study of exceptional child's individualized needs and methods of instruction. Overall view of mentally retarded, deaf, hard of hearing, speech impaired, visually handicapped, emotionally disturbed, physically handicapped, or health impaired. Includes learning disabled and gifted. Studies Federal and State regulations. 1-3 lecture hours; 0 lab hours per week. IAI: ECE 912

**CD 214 Child Development Practicum II**  
1-4 cr. hrs.  
Prerequisite: CD 204.  
Ten hours a week of supervised work in an early childhood setting. 1-2 lecture hours; 10 lab hours per week. IAI: ELE 914

**CD 220 Child Care Center/ Early Childhood Administration**  
1-3 cr. hrs.  
Examines the management processes of planning, staffing, record keeping, budgeting, purchasing, and monitoring for quality. Formulation of policy statements, philosophy, programming, planning, evaluation and working with parents will be included. Students will become familiar with computer usage, licensing standards, accreditation, community resources and professional organizations for early childhood programs. 1-3 lecture hours; 0 lab hours per week.

**CD 222 Child, Family and Community**  
3 cr. hrs.  
This course focuses on the child in the context of family and community. Includes issues of communication, diversity, professionalism, and social policy and will promote awareness and effective use of resources. 3 lecture hours; 0 lab hours per week.

**CD 224 Methods of Guiding Children's Behavior**  
1-3 cr. hrs.  
Presents effective methods of discipline in the guidance of young children’s behavior through theory and practical application. 1-3 lecture hours; 0 lab hours per week.
CD 225 Math and Science for the Young Child 1-3 cr. hrs.
Introduces the theory and practice related to the curricular areas of math and science for young children. Emphasis will be placed on the development and evaluation of developmentally appropriate activities and instructional materials. 1-3 lecture hours; 0 lab hours per week.

CD 240 Special Topics in Child Development 1-4 cr. hrs.
Prerequisite: Instructor approval required.
Designed to provide seminars on various topics as needed.

CD 299 Independent Study, Workshops and Seminars 1-4 cr. hrs.
Prerequisite: Approval of department chairperson or instructor.
Designed to fit the needs of each student. Workshop and seminars may be offered for credit under CD 299.

Chemistry

CHEM 101 General Chemistry I 4 cr. hrs.
Prerequisite: One year of high school chemistry or CHEM 110 or the completion of MATH 112 or 118 or ASSET score of 34 on the College Algebra Test.
Fundamental principles of stoichiometry, periodicity, atomic structure and thermochemistry with applications to gases, liquids, solids and solutions. 3 lecture hours; 3 lab hours per week. IAI: P1902L

CHEM 102 General Chemistry II 4 cr. hrs.
Prerequisite: CHEM 101.
Continuation of CHEM 101. Equilibrium calculations, electrochemistry, acid-base theory, coordination compounds, inorganic chemistry. 3 lecture hours; 3 lab hours per week. IAI: BIO 907; CLS 907

CHEM 110 Introduction to Chemistry 4 cr. hrs.
Introduction to the fundamental principles of chemistry with applications to gases, liquids, solids and solutions. Also includes nomenclature of inorganic compounds. Credit for this course will not be counted toward graduation if the student also completes CHEM 101. 3 lecture hours; 2 lab hours per week. IAI: P1 902L

CHEM 111 Principles of Organ Biochemistry 4 cr. hrs.
Prerequisite: CHEM 110 or 2 semesters of high school chemistry or instructor's consent.
Fundamental principles of structure and reactions of organic chemicals, sources and uses. Structures and reactions of biochemicals, and metabolism. 3 lecture hours; 2 lab hours per week. IAI: P1 904L

CHEM 115 Concentrated General Chemistry 6 cr. hrs.
Prerequisite: MATH 101 or equivalent.
This course is primarily for Pre-Chiropractic students. It combines the basic principles taught in CHEM 101 and 102. Students must earn graduation credit for either CHEM 101 and 102 or CHEM 115. 5 lecture hours; 3 lab hours per week.

CHEM 201 Quantitative Analysis 5 cr. hrs.
Prerequisite: CHEM 102.
Gravimetric, volumetric, spectrochemical and potentiometric analysis, equilibria of solutions. 3 lecture hours; 4 lab hours per week.

CHEM 202 Organic Chemistry 3-5 cr. hrs.
Prerequisite: CHEM 101 or consent of instructor.
This course covers the chemistry of aliphatic and aromatic organic compounds, nomenclature, structure, sources and reactions. 3 lecture hours; 0, 2, 4 lab hours per week.

CHEM 203 Organic Chemistry I 5 cr. hrs.
Prerequisite: CHEM 101.
Synthetic and mechanistic features of hydrocarbons, alkyl halides and alcohols, including nomenclature. 4 lecture hours; 3 lab hours per week. IAI: EGR 963; BI 908, CLS 908

CHEM 204 Organic Chemistry II 5 cr. hrs.
Prerequisite: CHEM 203.
Continuation of CHEM 203. Emphasis on functional group reactions and mechanisms with spectrochemical interpretations. 3 lecture hours; 6 lab hours per week. IAI: EGR 964; BIO 909; CLS 905

CHEM 205 Basic Biochemistry 3 cr. hrs.
Prerequisite: CHEM 202 or 203 or 215 or consent of instructor.
Introduction to structure and chemistry of proteins, carbohydrates, lipids, nucleic acids and enzymes, metabolism and related areas of nutrition, drugs, genetics, and tissue interaction. 3 lecture hours; 0 lab hours per week. IAI: CLS 910

CHEM 206 Basic Biochemistry Laboratory 1 cr. hr.
Co- or Prerequisite: CHEM 206.
Selected experiments to supplement CHEM 206. Instrumental methods using the pH meter and spectrophotometer are introduced in the biochemical data gathering process. 0 lecture hours; 2 lab hours per week.

CHEM 215 Concentrated Organic Chemistry 6 cr. hrs.
Prerequisite: CHEM 115 or consent of instructor.
An accelerated study of organic chemistry, primarily intended for students wishing to meet the entrance requirements for pre-chiropractic. Will cover same topics as CHEM 203 and 204 except for spectroscopic topics (No credit for both CHEM 203/204 and CHEM 215) 5 lecture hours; 3 lab hours per week.

Computer Information Processing

CIP 101 Introduction to Programming Logic 4 cr. hrs.
An introduction to problem solving and programming concepts needed for business computer programming in a language-independent format. Primary emphasis will be on analyzing problems and applying the three basic programming structures – sequence, decision, and repetition to develop a solution using tools such as hierarchy charts, flowcharts and pseudocode. Other topics covered include computer coding
systems, an overview of the major programming languages, and object-oriented programming concepts. 4 lecture hours; 0 lab hours per week.

CIP 102 Mainframe Computer Operations 3 cr. hrs.
Prerequisite: CIP 101 or concurrent enrollment.
This course introduces students to computer operating concepts and the duties and responsibilities of the jobs associated with computer operations. Students will learn IBM AS/400 operation using menu selections and CL commands, plus report and edit utilities. 3 lecture hours; 0 lab hours per week.

CIP 103 Introduction to Microcomputers 3 cr. hrs.
Emphasis through hands-on use of a microcomputer, an introduction to typical applications using word processing, database management, and electronic spreadsheet programs. 3 lecture hours; 0 lab hours per week.

CIP 104 Introduction to Programming with BASIC 3 cr. hrs.
This course teaches the student the use of key BASIC programming statements and the use of QBASIC in writing application programs. Proper programming design, structure, and logic are emphasized. 3 lecture hours; 0 lab hours per week.

CIP 107 AS/400 Operations 2 cr. hrs.
This course will introduce the student to AS/400 operations as needed by programmers using an IBM-AS/400 mid-range computer. 2 lecture hours; 0 lab hours per week.

CIP 121 Introduction to RPGII/RPGIII Programming 4 cr. hrs.
Prerequisite: CIP 101 and CIP 104 and CIP 102 or consent of instructor.
This course will introduce students to programming with the RPGII and RPGIII languages. Basic input, output, calculations, indicators, level breaks, loops, decisions, full procedure programming, and data validation will be covered. 4 lecture hours; 0 lab hours per week.

CIP 132 Introduction to COBOL Programming 4 cr. hrs.
Prerequisite: CIP 101 and CIP 104 and CIP 102 or consent of instructor.
This course will introduce students to programming with the COBOL language using structured programming techniques. 4 lecture hours; 0 lab hours per week.

CIP 166 Microcomputer Operating Systems II 3 cr. hrs.
Prerequisite: COER 112 or consent of the instructor.
A second course in microcomputer operating systems featuring UNIX and Microsoft Windows NT workstation. UNIX topics include using editors, the file system, shells, communications, and an introduction to programming tools. NT topics include working with files and folders, customizing NT, managing hardware, and sharing information between applications. 2 lecture hours; 2 lab hours per week.

CIP 181 Advanced Web Page Development 3 cr. hrs.
Prerequisite: BE 170 or permission of instructor.
This course introduces the student to HTML tools, cascading style sheets, XML, XHTML and the use of applets within a Web page. The course also looks at the need to develop a strategy for Web site organization and design. In addition, the student will learn how to stay current on W3C standards for Web page development. 3 lecture hours; 0 lab hours per week.

CIP 182 Web Scripting Languages 3 cr. hrs.
Prerequisite: BE 170 and either CIP 101 or CIP 104 or permission of instructor.
This course will provide students with the knowledge and skills needed to develop Web application using Web scripting languages. An overview is given on the constructs of the scripting language such as functions, arrays, and control structures. Topics covered include session variables, client-side vs. server-side scripting, DOM, and components. 3 lecture hours; 0 lab hours per week.

CIP 204 Visual Basic Programming 3 cr. hrs.
Prerequisite: CIP 104 or consent of instructor.
Use Visual Basic programming concepts to program in a Windows environment, with Visual Basic controls, methods, and events. Cover processing with arrays, data structures, and creation and manipulation of files. 3 lecture hours; 0 lab hours per week.

CIP 205 Advanced Visual Basic 3 cr. hrs.
Prerequisite: CIP 204.
This course provides the student with more advanced programming techniques in Visual Basic. Coverage includes programming ActiveX components, relational database connectivity, VB collections, and programming MDI applications. 3 lecture hours; 0 lab hours per week.

CIP 206 Web Services 3 cr. hrs.
Prerequisite: CIP 204 and CIP 182 or permission of instructor.
This course introduces the Web Services standards, the use of Web Services to implement the B2B and B2C business models, security standards such as VPN, SSL, and encryption, and Web Services tools such as Microsoft Visual Studio.NET or Java Web Services. 3 lecture hours; 0 lab hours per week.

CIP 207 AS/400 Programming 2 cr. hrs.
Prerequisite: CIP 101, CIP 107 & CIP 132.
This course will introduce student to AS/400 programming concepts in CL, Queries, and Screens using database files, sequential files, logical files, and subfiles. 2 lecture hours; 0 lab hours per week.

CIP 210 DP Math 3 cr. hrs.
Prerequisite: High school algebra or equivalent or consent of instructor.
Course includes logic and sets: definitions, properties, proofs, and mathematical induction; relations: properties, compositions, and functions; Boolean algebra; algebraic systems. Some combinatorics patterns and partitions, and
directed and undirected graphs maybe covered if time permits. 
3 lecture hours; 0 lab hours per week.

**CIP 221 Advanced RPGII/RPGIII Programming  3 cr. hrs.**
Prerequisite: CIP 121.
This course provides students with advanced programming of 
files and table manipulation, program documentation, and 
multiple file usage. It teaches advanced programming 
techniques using the RPGII and RPGIII languages. 3 lecture 
hours; 0 lab hours per week.

**CIP 222 RPGII/RPGIII/RPG 400 Programming  5 cr. hrs.**
Prerequisite: CIP 101, CIP 104, CIP 107, CIP 132.
This course will teach computer programming using the 
syntax of the RPG language. Students will process sequential 
and database files using all RPG capabilities through fixed and 
full-procedural logic. 5 credit hours; 0 lab hours per week.

**CIP 226 Database Management  3 cr. hrs.**
Prerequisite: CIP 103 or CS 100 or consent of instructor.
Analysis of procedures, personnel, and hardware necessary in 
electronic database processing. Topics covered include review 
of design, creation, and maintenance of databases including a 
study of tables and data validation, relationships, queries, 
forms, reports, macros, SQL, and normalization of tables. 3 
lecture hours; 0 lab hours per week.

**CIP 228 Web Database Programming  3 cr. hrs.**
Prerequisite: CIP 226 or BE 264 and CIP 182 or permission 
of instructor.
This course introduces Web database technologies including 
active server pages with VBScript and/or Java server pages. The student will create a back-end database or making 
interactive Web pages. 3 lecture hours; 0 lab hours per week.

**CIP 230 Spreadsheet Analysis  3 cr. hrs.**
Spreadsheet analysis is designed for both the novice and 
experienced user of spreadsheets. Students learn a systematic 
procedure for formulating and solving business problems 
using current spreadsheet software. 3 lecture hours; 0 lab hours per week.

**CIP 232 Advanced COBOL Programming  4 cr. hrs.**
Prerequisite: CIP 132.
Programs utilizing sequential and keyboard database file 
processing will be written using the COBOL programming 
language. Students will gain an understanding of the current 
state of the art in file manipulation. 4 lecture hours; 0 lab hours per week.

**CIP 247 "C" Programming  3 cr. hrs.**
Prerequisite: CIP 101, CIP 104, or knowledge of a high level 
programming language.
This course teaches the student the use of key "C" 
programming statements, and the use of the "C" language in 
writing microcomputer application programs. Emphasis on 
language structure, analysis, coding, and execution of 
business-oriented programs using the "C" language. 3 lecture 
hours; 0 lab hours per week.

**CIP 248 Object Oriented Programming with C++ 3 cr. hrs.**
Prerequisite: CIP 247 or consent of instructor.
This course will introduce the student to the concepts of 
Object-Oriented Programming (OOP). Data abstraction, 
inheritance, polymorphism, and multiple inheritance will be 
covered and implemented using the C++ programming 
language. 3 lecture hours; 0 lab hours per week.

**CIP 249 Windows API with C++  3 cr. hrs.**
Prerequisite: CIP 248 or consent of the instructor.
This course is designed to introduce the student to 
programming Windows Applications using the C++ 
Programming Language, and interacting with the Windows 
Application Program Interface. Students will create Windows 
containing command buttons, text boxes, static boxes (labels), 
option (radio) buttons, check boxes, etc. They will also learn 
to handle mouse movements and keyboard hits from within 
their programs. 3 lecture hours; 0 lab hours per week.

**CIP 250 Java Programming Fundamentals  3 cr. hrs.**
Prerequisite: BE 170 and CIP 204 or permission of instructor.
This course teaches students fundamentals of Java 
programming for the Web. It focuses on event-driven object 
oriented programming and includes Java control structures, 
event handling, I/O and applet development. 3 lecture hours; 
0 lab hours per week.

**CIP 256 Advanced Programming Concepts  4 cr. hrs.**
Prerequisite: CIP 232 or consent of instructor.
This course is designed to introduce students to advanced 
programming concepts. Emphasizes online programming, 
screen design, and database concepts through hands-on 
application. May also include any new concepts developed in 
the programming field. 4 lecture hours; 0 lab hours per week.

**CIP 260 Systems Design and Development  3 cr. hrs.**
Prerequisite: Sophomore status or consent of instructor.
This course is designed to guide the student through the five 
stages in the evolution of a system. Effective use of 
management sciences in meeting the needs of business 
systems through class projects and an off-campus project. 3 
lecture hours; 0 lab hours per week.

**CIP 265 Field Project  3 cr. hrs.**
Prerequisite: Consent of instructor.
For CIP students in the last semester of the CIP program. 
Students obtain employment in an approved CIP position to 
gain on-the-job experience. 3 lecture hours; 0 lab hours per week.

**CIP 299 Independent Study  .5-3 cr. hrs.**
Prerequisite: Consent of Department Chair or Lead 
Instructor.
Independent study or group study designed to fit the needs of 
the students. .5-3 hours lecture; 0 lab hours per week.
Computer Operation and Equipment Repair

COER 110 Basic Electronics  
Prerequisite: MATH 080.  
A course in basic electronics for students pursuing a certificate in Computer Operations and Equipment Repair. Includes fundamental concepts in AC and DC circuit analysis. 2 lecture hours; 2 lab hours per week.

COER 112 Microcomputer Operating Systems  
Prerequisite: MATH 080.  
A technical course in popular Microsoft compatible operating systems. Course emphasizes usage, theory and configuration of contemporary Microsoft operating systems using both command-line and graphical shells. 2 lecture hours; 2 lab hours per week.

COER 116 Microcomputer Hardware  
Prerequisite: Math 080.  
This course is an introduction to installation and repair of microcomputer hardware components. Content includes memory drive installation, input and output devices, and assembly of microcomputers. 2 lecture hours; 2 lab hours per week.

COER 118 Computer Troubleshooting  
Prerequisite: COER 116.  
This course provides an introduction to computer support, troubleshooting methodologies, and routine computer maintenance and repair. 2 lecture hours; 2 lab hours per week.

COER 124 Internship  
Prerequisite: COER 112 and 116 and permission of instructor.  
Structured work experience in computer maintenance and repair. Designed to reinforce and supplement second semester coursework. 5 internship hours per week required for 1 credit.

COER 125 Seminar  
Prerequisite: permission of instructor.  
Designed to be taken at the same time as the student's internship in computer repair, network technician, or microcomputer support. Includes discussion of workplace problems, development of job seeking strategies, and enhancement of interpersonal skills. 1 lecture hour; 0 lab hours per week.

COER 216 Advanced PC Hardware/A+ Prep  
Prerequisite: COER 116 or permission of instructor.  
An advanced hands-on course in microcomputer hardware installation, troubleshooting, and repair, with an emphasis on preparing the student to take the CompTIA A+ Certified Technician certification exams. 2 lecture hours; 2 lab hours per week.

Communications

COMM 100 Communication Skills  
3 cr. hrs.  
For career program students only. COMM 100 and ENG 132 fulfill requirements for an associate's degree in a career program. Concentration on developing skills in writing, speaking and reading. 3 lecture hours; 0 lab hours per week.

COMM 105 Essentials of English  
Prerequisite: See Assessment and Orientation, page 27.  
Reviews grammar, punctuation, usage and sentence structure through a variety of writing tasks. 3 lecture hours; 0 lab hours per week.

Criminal Justice

CRJU 101 Court Systems  
3 cr. hrs.  
To provide student with an overview of the history and development of the court system in the United States. This course deals with the courts at the federal, state, and county level, explaining the operation of the courts, the selection process for judges, and the limit of jurisdiction of each court. 3 lecture hours; 0 lab hours per week.

CRJU 102 Probation and Parole  
3 cr. hrs.  
To provide student with an overview of probation and parole; the decision-making process, the parolee and the Parole Board, evaluating parole. With the increasing prison population in our society, more emphasis in the future will be placed on increased use of probation and parole as the only viable solution. Any serious student studying the Criminal Justice System must gain a broad-based knowledge of the probation and parole process. 3 lecture hours; 0 lab hours per week.

CRJU 103 Prosecution  
3 cr. hrs.  
Overview of the prosecution of criminal cases at the federal, state and local level. 3 lecture hours; 0 lab hours per week.

CRJU 151 Criminal Justice System  
3 cr. hrs.  
A comprehensive view of the criminal justice system in America today. 3 lecture hours; 0 lab hours per week. IAI: CRJ 901

CRJU 200 Criminology  
3 cr. hrs.  
Broad overview of the criminal justice system and a study of crime as a social phenomenon. 3 lecture hours; 0 lab hours per week. IAI: CRJ 912

CRJU 250 Survey of Corrections  
3 cr. hrs.  
Overview of the development of corrections, correctional client, correctional process, community-based corrections. Effects of institutionalization and the future of corrections. 3 lecture hours; 0 lab hours per week. IAI: CRJ 911

CRJU 251 Referral Services  
3 cr. hrs.  
To provide student with an overview of the various agencies utilized by the police and courts to deal with people that have a variety of problems. This course lists some of the more commonly used agencies and gives some information of eligibility for services. 3 lecture hours; 0 lab hours per week.
CRJU 260 Problem Solving  3 cr. hrs.
Develops the skills used in problem solving as it applies to the agencies of the criminal justice system. 3 lecture hours; 0 lab hours per week.

CRJU 271 Internship in Criminal Justice  3 cr. hrs.
Provides a supervised work experience in one or more of various agencies in the criminal justice system. 1 lecture hour; 10 lab hours per week.

Computer Science

CS 100 Introduction to Computers  3 cr. hrs.
Introduction to computer concepts, computer applications, and the impact of computers on society. Applications include problem solving methods, word processing, spreadsheet, database, and presentation graphics software. Basic Algebra or equivalent is recommended. 3 lecture hours; 1 lab hour per week.

CS 101 Introduction to Structured Programming  3 cr. hrs.
Prerequisite: MATH 090 or 091.
An entry-level course in structured programming that includes branching and loops, functions, arrays, records and text files. Language used is C++. Not for computer science majors. 3 lecture hours; 1 lab hour per week.

CS 121 Introduction to Computer Science  5 cr. hrs.
Prerequisite: MATH 091 or equivalent. Recommended corequisite: MATH 112, MATH 118, or MATH 131.
The first sequence of courses for computer science majors. Disciplined approach to problem solving and algorithm development using a high level language for implementation. Includes sequence, selection, and repetition control structures; program design, coding, debugging, testing, and documentation with emphasis on structured programming; arrays, records, and files. 4 lecture hours; 2 lab hours per week. IAI: CS911

CS 140 Business Computer Systems  3 cr. hrs.
Prerequisite: MATH 131 or equivalent.
A course evenly divided between the study of Management Information Systems theory and common microcomputer productivity tools. Computer hardware, software, system analysis, database management systems, telecommunications, and artificial intelligence are among the topics surveyed. 3 lecture hours; 1 lab hour per week.

CS 141 Programming for Business with COBOL  3 cr. hrs.
Prerequisite: CS 101 or CS 121.
Structured programming with applications in accounting, economics, finance, and similar fields. Includes branching, arrays, files and subroutines. Language is COBOL. 3 lecture hours; 0 lab hours per week.

CS 201 Advanced Applications Software  3 cr. hrs.
Prerequisite: MATH 090, 091 or equivalent; CS 100 or equivalent.
Advanced problem solving using word processing, spreadsheet, database, and operating system software. The course includes application development in Visual Basic for Applications. 2 lecture hours; 2 lab hours per week.

CS 210 Introduction to Educational Computing  3 cr. hrs.
Introduction to the use of technology in elementary education. Includes hardware concepts, software evaluation, Microsoft Office applications for education, Internet use and ethics, basic Web page design, and state and federal learning and technology standards. 2 lecture hours; 2 lab hours per week.

CS 225 Advanced Programming  4 cr. hrs.
Prerequisite: CS 121.
The second in a sequence of courses for computer science majors. Includes: software engineering; abstract data types; data structures - files, sets, pointers, lists, stacks, queues, trees; program verification and complexity; recursion; dynamic concepts - memory, scope, block structures; text processing; searching and sorting algorithms. Implementation is in a high level language. 3 lecture hours; 2 lab hours per week. IAI: CS 912

CS 242 Computer Architecture  3 cr. hrs.
Prerequisite: CS 225.
A study of the architecture of computer systems. Topics include combinational and sequential logic networks; computer arithmetic; memory hierarchy; CPU design; I/O architecture, hardware, and software; instruction sets and addressing modes; linking and loading. 3 lecture hours; 0 lab hour per week. IAI: CS 922

CS 251 Programming for Science  3 cr. hrs.
Prerequisite: MATH 124.
Structured programming with applications in mathematics, engineering, and the physical and biological sciences. Introduction to numerical methods and numerical analysis using C++, as the language of implementation. 3 lecture hours; 0 lab hours per week. IAI: EGR 922

CS 252 Data Structures  3 cr. hrs.
Prerequisite: CS 225 and MATH 161.
The third in a sequence of courses for computer science majors. Includes: various algorithmic paradigms, recurrence relations; complexity analysis; advanced algorithms for sorting, searching and string processing; advanced abstract data types - sets, graphs, heaps, hash tables; random number generation, object-oriented programming. 3 lecture hours; 0 lab hours per week. IAI: CS 921

Civil Technology

CT 205 Reinforced Concrete  3 cr. hrs.
Prerequisite: MATH 123, MT 220.
Basic understanding of the strength and behavior of reinforced concrete members and simple concrete structural systems. 3 lecture hours; 0 lab hours per week.
CT 210 Fluid Mechanics 3 cr. hrs.
Prerequisite: MATH 123.
Examination and review of fundamentals of hydraulic engineering systems including fluids, pumps, hydrology, structures, wells, drainage and open channels. 3 lecture hours; 0 lab hours per week.

CT 215 Structural Steel 3 cr. hrs.
Prerequisite: MATH 123, MT 220.
Study of basics of structural steel design including AISC design techniques, structures, economics, safety, planning, load factors, computer design, and combined solutions. 3 lecture hours; 0 lab hours per week.

CT 220 Soil Mechanics 3 cr. hrs.
Prerequisite: MATH 123.
Introduction to nature of soils, illustrations of influence of soil materials on construction projects. Practical application in soil mechanics. 3 lecture hours; 0 lab hours per week.

Economics

ECON 150 Consumer Economics 3 cr. hrs.
Study which leads to the understanding of financial management principles relating to individuals. Discusses receipts of income, personal goal setting, and budgeting. Also, individual spending in such areas as shelter, risk coverage, taxes and the investment of discretionary funds to further an individual's asset holdings. Estate planning is also covered. 3 lecture hours; 0 lab hours per week.

ECON 221 Principles of Macro Economics 3 cr. hrs.
Study of the basic macro economic principles of a capitalistic economy, its strengths and weaknesses including supply and demand, prices, role of government, national income measurement and determination, money, banking, monetary and fiscal policies, inflation and unemployment, international trade and payments. 3 lecture hours; 0 lab hours per week. IAI: S3 901

ECON 222 Principles of Micro Economics 3 cr. hrs.
Study of the basic micro economic principles of a capitalistic economy emphasizing supply and demand, prices, elasticity, competitive forms in product and resource markets, government and business relationships, poverty, and agriculture. 3 lecture hours; 0 lab hours per week. IAI: S3 902

ECON 236 Economic History of the United States 3 cr. hrs.
Examines progression of the United States from a rural farming nation to an urban industrialized nation dominant in the world’s economic system. Demonstrates how principles of economics have operated in an historical setting. 3 lecture hours; 0 lab hours per week.

ECON 270 Introduction to International Business 3 cr. hrs.
This course provides an overview and a basic understanding of current world activities, practices, and governmental aids and barriers to international trade. Exploration of various economic, geographic, political and cultural differences affecting international trade. 3 lecture hours; 0 lab hours per week.

ECON 280 International Economics 3 cr. hrs.
Prerequisite: ECON 221 or 222.
Examines the economic basis for trade, the rationale for free trade, the types and effects of trade barriers, and the concept of economic integration. Additionally, the course examines the international financial environment. It explores the foreign exchange market, balance of payments, and the international monetary system. 3 lecture hours; 0 lab hours per week.

Education

EDUC 101 Introduction to Education 3 cr. hrs.
An overview of American education as both a professional and a public enterprise. Social, historical, and philosophical foundations give perspective to an examination of current issues, policies, and trends in the field of education, including cultural diversity. Includes such topics as organization and structure, finance, and curriculum. 2.5 lecture hours; 1 lab hour per week.

EDUC 235 Clinical Observation in Education 2 cr. hrs.
Sophomore standing recommended. Clinical observation of learning in a variety of educational settings for those considering teaching as a career. Pre-teaching majors planning to transfer to state universities are strongly advised to enroll in this course to fulfill prerequisites for programs. 1 lecture hour; 1 lab hour per week. IAI: EED 904, SED 905, SPE 914

Emergency Medical Services

EMS 100 Emergency Medical Technician Basic 7 cr. hrs.
Prerequisite: At least 18 years of age, high school diploma or GED, current CPR card.
Prepares individuals to provide basic emergency care at the scene of an accident or illness and to stabilize and transport the victim to a facility providing thorough emergency medical services. The course will include the treatment of common medical emergencies and injuries as well as the roles and responsibilities of emergency medical technicians - ambulance (EMT-B). Upon satisfactory completion of the course, the student will be eligible to take the state EMT-B test or the National Registry. 6 lecture hours; 2 lab hours per week.

EMS 120 EMT - Intermediate Theory 8 cr. hrs.
Prerequisite: EMS 100 with a grade of “B” or better, current EMT Basic license, current CPR card (health care provider level).
In this course, the student is introduced to the roles and responsibilities of the EMT-I, beginning paramedic. Ethical and legal aspects of the Emergency Medical Services system are discussed. Anatomy and physiology is reviewed and primary and secondary physical assessment is presented. The causes and emergency management of problems relating to fluid/electrolyte balance, shock, and trauma-related respiratory disorders are discussed. Selected life-threatening arrhythmias and their treatment are also presented. Clinical experiences
and observations will be selected to correlate with the course content. 8 lecture hours; 0 lab hours per week.

**EMS 121 EMT – Intermediate (Clinical)** 3 cr. hrs.  
Prerequisite: EMS 100-EMT Basic, EMS 120-EMT Intermediate Theory with a grade of “B” or better, current EMT Basic license, and current CPR card (healthcare provider level).  
The student participates in a minimum number of ALS calls with a system approved ALS agency. The student will function under the supervision of an EMT-Paramedic who has been licensed and active for at least four years in the system and who is in good standing with the EMS System. The course is designed to provide the intermediate student with educational experience in the field of an ALS unit. The student is required to complete a minimum number of hours of field experience on the ALS unit. This course must be completed with a grade of “B” or better. 0 lecture hours; 6 lab hours per week.

**EMS 122 EMT – Intermediate Theory** 8 cr. hrs.  
Prerequisite: EMS 100 and EMS 120 with a grade of “B” or better, current EMT Basic license, and current CPR card (healthcare provider level).  
The anatomy and physiology of the cardiovascular system will be studied with emphasis on the structure, function, and electrical conduction system of the heart and the pathophysiology and emergency management of cardiovascular and non-trauma-related respiratory problems. The student also will study the electrocardiogram (EKG) interpretation and treatment of various arrhythmias and specific treatment techniques including EKG monitoring, defibrillation and cardio version. A variety of common medical emergencies will be studied along with obstetric and gynecologic, pediatric-neonatal, psychiatric, behavioral, neurological, environmental emergencies and their management. The student will also study infectious and communicable diseases. This course must be completed with a grade of “B” or better. 8 lecture hours; 0 lab hours per week.

**EMS 123 EMT – Intermediate Clinical** 4 cr. hrs.  
Prerequisite: EMS 100, EMS 120, and EMS 122 with a grade of “B” or better, EMT basic license, and current CPR card (healthcare provider level).  
The clinical rotation requirements for the intermediate education program are designed to augment each phrase of the didactic material presented in the classroom. Each student will rotate through specified patient care areas of the hospital and work under the direct supervision of a registered nurse or physician to master the practical skills of an EMT-Intermediate while in a controlled environment. The student will spend clinical time in the Emergency Department, Obstetrical Unit, Medical Intensive Care Unit, Surgical Intensive Care Unit, Pediatric Department, Psychiatric Unit. The student must complete a minimum number of hours of clinical. This course must be completed with a grade of “B” or better. 0 lecture hours; 8 lab hours per week.

**EMS 160 EMT – Paramedic Theory I** 6 cr. hrs.  
Prerequisite: EMS 100 with grade of “B” or better, current EMT Basic license, and current CPR card (healthcare provider level).  
This course is designed for the student who wishes to complete the preparation for paramedic certification. A variety of common medical emergencies will be studied as well as obstetric and gynecologic, pediatric-neonatal, and psychiatric emergencies. Triage, extrication-rescue techniques, telemetry, and radio communications will be discussed. This course must be completed with a “B” or better. 6 lecture hours; 0 lab hours per week.

**EMS 161 EMT – Paramedic Clinical I** 7 cr. hrs.  
Prerequisite: EMS 100, EMS 160, EMS 162, EMS 122, and EMS 120 with grade of “B” or better, current EMT Basic license, and current CPR card (healthcare provider level).  
The clinical rotation requirements for the paramedic education program are designed to augment each phase of the didactic material presented in the classroom. Each student will rotate through specified patient care areas of the hospital, and work under the direct supervision of a registered nurse or physician to master the practical skills of an EMT-Paramedic while in a controlled environment. The student will spend clinical time in the Emergency Department, Obstetrical Unit, Intensive Care Unit, Pediatric Department, Psychiatric Unit and the OR. The student must complete a minimum number of hours of clinical. This course must be completed with a grade of “B” or better. 0 lecture hours; 14 lab hours per week.

**EMS 162 EMT – Paramedic Theory II** 6 cr. hrs.  
Prerequisite: EMS 100, EMS 160, and EMS 120 with a grade of “B” or better, current EMT Basic license, current CPR card (healthcare provider level).  
This course is designed for the student who wishes to complete the preparation for paramedic license. A variety of common medical emergencies will be studied as well as obstetric and gynecologic, pediatric-neonatal, and psychiatric emergencies. Triage, extrication-rescue techniques, telemetry, and audio communications will be discussed. This course must be completed with a grade of “B” for better. 6 lecture hours; 0 lab hours per week.

**EMS 163 EMT – Paramedic Clinical II** 7 cr. hrs.  
Prerequisite: EMS 100, EMS 160, EMS 161, and EMS 162 with a grade of “B” or better, current EMT Basic license, current CPR card (healthcare provider level).  
The student will be required to participate in a minimum number of ALS calls with a system approved ALS agency. The student will function under the supervision of an EMT-Paramedic who has been licensed and active for at least one year in the system and who is in good standing with the EMS system. Students affiliated with agencies not a part of the Illini Mobile Intensive Care Program will be required to obtain a minimum of 50% of their ambulance ride time and seven of ten of their ALS calls with an approved Illini Ambulance. The course is designed to provide the paramedic student with educational experience in the field of an ALS Unit. The student is required to complete a minimum number of hours of field experience on the ALS unit. This course must be
completed with a grade of “B” or better. 0 lecture hours; 14 lab hours per week.

**English**

**ENG 081 Writing Fundamentals I** 3 cr. hrs.
*Prerequisite: A COMPASS score of 0-14.*
Emphasizes basic grammar, sentence structure, and the fundamental principles of paragraph development in order to prepare for English 091. 3 lecture hours; 0 lab hours per week.

**ENG 091 Writing Fundamentals II** 3 cr. hrs.
*Prerequisite: A COMPASS score of 15-27 or completion of ENG 081 with a grade of "C" or better.*
Emphasizes strategies for organization and development of paragraphs and short essays. 3 lecture hours; 0 lab hours per week.

**ENG 101 Composition I** 3 cr. hrs.
*Prerequisite: An ACT English score of 22-36, a COMPASS score of 62-99, or successful completion of English 091 or the appropriate score on the English Placement Exam.*
English 101 is designed for students who are competent in the fundamentals of composition. Students will write essays using a variety of expository strategies and will apply standard techniques of documentation when appropriate. 3 lecture hours; 0 lab hours per week. IAI: C1 900/C1 900R (Grade of "C" or higher required for this course to be eligible to be included in the IAI General Education Core Curriculum.)

**ENG 102 Composition II** 3 cr. hrs.
*Prerequisite: Grade of "C" or better in English 101.*
English 102, a continuation of English 101, is a required composition course that involves reading, discussion, and analysis of a body of literature to generate ideas for critical and persuasive papers, including one documented research paper. 3 lecture hours; 0 lab hours per week. IAI: C1 901 (Grade of "C" or higher required for this course to be eligible to be included in the IAI General Education Core Curriculum.)

**ENG 103 College Reading Skills** 3 cr. hrs.
*Prerequisite: COMPASS score of 83-99 or above or successful completion ("C") of REA 098.*
Refinement of reading skills necessary for success in college level textbooks and related reading, focusing on vocabulary, comprehension, critical reading, rate flexibility and study strategies. 3 lecture hours; 0 lab hours per week.

**ENG 132 Technical Writing I** 3 cr. hrs.
*Prerequisite: COMM 100 and COMPASS score of 32 or above or COMM 100 and COMM 105 or ENG 101 or BE 180 or permission of the instructor.*
Includes correspondence, memo reports, formal reports, abstracts, fact sheets, instructions and proposals. Includes use of a word processor. 3 lecture hours; 0 lab hours per week.

**ENG 190 Introduction to Literature** 3 cr. hrs.
*Reading COMPASS score of at least 79. Students who are required to take Reading 098 (40-42) must enroll concurrently with this course.*
This course offers an introduction to works of poetry, drama, and fiction in order to develop the reader’s interpretive skills. The course is designed to promote an awareness of excellence in literature as well as an appreciation of diversity. As such, it will prepare students for other literature offerings. 3 lecture hours; 0 lab hours per week. IAI: H3 900

**ENG 200 Writing Situations** 1-3 cr. hrs.
*Prerequisite: ENG 101, 132, or consent of instructor.*
Provides student with experiences in identifying and improving writing skills in specific kinds of writing situations. Emphasis on situation and audience. Specific content to be tailored to student’s needs and interests. 1-3 lecture hours; 0 lab hours per week.

**ENG 205 Studies in Literature** 3 cr. hrs.
*Prerequisite: Successful completion of ENG 101.*
Intensive study of a genre, topic, group of authors, or a single major writer. Images of Women in Literature, Psychology and Literature, Folklore, Science Fiction/Fantasy, Tragedy, Detective Fiction and Biblical Images in Literature are among offerings. May be repeated once. 3 lecture hours; 0 lab hours per week.

**ENG 206 Minority American Literature** 3 cr. hrs.
*Prerequisite: Grade of "C" or better in ENG 101.*
An introduction to the literacy and cultural traditions of two or more U.S. minority cultures—such as Native American, African American, Asian American, and Hispanic American—and to the general issues of cultural marginalization of minorities in the American experience. 3 lecture hours; 0 lab hours per week. IAI: H3 910D

**ENG 207 Introduction to Women Writers** 3 cr. hrs.
*Prerequisite: Successful completion of ENG 101.*
Students examine various types of literary works in the context of culture, society, and sexuality. Literature of self-definition, identification, protest, and occupation is all included. 3 lecture hours; 0 lab hours per week. IAI: H3 911D

**ENG 208 Introduction to Poetry** 3 cr. hrs.
*Prerequisite: Successful completion of ENG 101.*
An introductory course designed to expose students to poetry as a genre with an emphasis on reading, discussing and writing effectively about a range of poems. 3 lecture hours; 0 lab hours per week.

**ENG 210 Introduction to Fiction** 3 cr. hrs.
*Prerequisite: Grade "C" or better in ENG 101.*
Reading and discussion of representative short stories and novels from a range of literatures, with some attention to critical work on fiction. 3 lecture hours; 0 lab hours per week. IAI: H3 901, EGL 917
ENG 213 American Literature I 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
A survey of representative works illustrating the development of American Literature from its beginning to the Civil War with emphasis on major literary movements understood in relation to their intellectual, social and political contexts. 3 lecture hours; 0 lab hours per week. IAI: H3 914, EGL 911

ENG 214 American Literature II 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
A survey of representative works illustrating the development of American Literature from the Civil War to the present, with an emphasis on major literary movements understood in relation to their intellectual, social, and political context. 3 lecture hours; 0 lab hours per week. IAI: H3 915, EGL 912

ENG 215 Western/World Literature Translated I 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
Reading and analysis of representative works of Western Civilization from Homer through the Renaissance. 3 lecture hours; 0 lab hours per week. IAI: H3 906

ENG 216 Western/World Literature Translated II 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
Reading and analysis of representative works of Western Civilization from Neoclassicism through symbolism and the modern school, from Moliere through Camus. 3 lecture hours; 0 lab hours per week. IAI: H3 907

ENG 217 African and Caribbean Literature 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
An introduction to the literature in English by writers from non-western cultures - African and the Caribbean - with an emphasis on the intellectual, social and political contexts of their works. Satisfies the non-western requirement. 3 lecture hours; 0 lab hours per week. IAI: H3 908N

ENG 218 Latin American Literature in Translation 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
An introduction to the literatures in translation of Latin American counties including at least three of the following: Mexico, Peru, Colombia, Argentina, Puerto Rico, Cuba, Uruguay, Chile and Brazil. Emphasis on literature as an expression of culture. Satisfies the non-western requirement. 3 lecture hours; 0 lab hours per week. IAI: H3 908N, EGL 919

ENG 219 Eastern Literatures in Translation 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
Reading and analysis of representative works of Eastern Literatures. Emphasizes one or more of these literatures: Asia, the Asian Subcontinent, the Middle East. Satisfies the non-western requirement. 3 lecture hours; 0 lab hours per week. IAI: H3 908N, EGL 919

ENG 221 British Literature I 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
A survey of representative works illustrating the development of British Literature from its beginnings to 1800, with an emphasis on major literary movements understood in relation to their intellectual, social and political contexts. 3 lecture hours; 0 lab hours per week. IAI: H3 912, EGL 913

ENG 222 British Literature II 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
A survey of representative works illustrating the development of British Literature from 1800 to the present, with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts. 3 lecture hours; 0 lab hours per week. IAI: H3 913, EGL 914

G 223 Introduction to Shakespeare 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
An introduction to Shakespeare's works by genre (comedy, history, tragedy and non-dramatic poetry). The course will focus on Shakespeare's work in the context of his own time as well as our own. 3 lecture hours; 0 lab hours per week. IAI: H3 905

ENG 231 Fiction Writing 3 cr. hrs.
Prerequisite: Writing Competence.
Students will understand the structure and elements of fiction and the writing process, produce fully-developed works of fiction, and demonstrate an understanding of the critical terminology of the creative writer. 3 lecture hours; 0 lab hours per week. IAI: EGL 921

ENG 232 Poetry Writing 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
Students will understand the structure and elements of poetry and the writing process, produce fully-developed works of poetry, and demonstrate an understanding of the critical terminology of the creative writer. 3 lecture hours; 0 lab hours per week. IAI: EGL 922

ENG 233 Children's Literature 3 cr. hrs.
Analysis of classic and contemporary children's literature and examination of criteria for selection and evaluation of children’s books. 3 lecture hours; 0 lab hours per week.

ENG 241 Technical Writing I 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
Experience and skill in writing technical materials from proposals to research projects. 3 lecture hours; 0 lab hours per week.

ENG 242 Technical Writing II 3 cr. hrs.
Experience and skill in writing technical materials from proposals to research projects. 3 lecture hours; 0 lab hours per week.

ENG 243 Writing for the Media 3 cr. hrs.
An understanding of those characteristics of the print and broadcast media necessary to write effective press releases, newsletters, speeches, articles and brochures. 3 lecture hours; 0 lab hours per week.

ENG 245 Writing Internship 3 cr. hrs.
Actual work experience in any appropriate writing situation: journalism; media (radio, television); advertising; social service agencies; on-profit organizations; public relations; and business and technical writing. 0 lecture hours; 15 lab hours per week to be arranged.
ENG 250 Film as Literature 3 cr. hrs.
Prerequisite: Grade "C" or better in ENG 101.
Examination of film as an art form. Includes historical development and trends; aesthetic importance; social impact; technical aspects; production methods; and screening, discussion, and critical evaluation of selected films. 2 lecture hours; 2 lab hours per week.

English as a Second Language

ESL 051 Foundations I 4 cr. hrs.
This course is intended for the student who has limited knowledge of English grammar and who has limited ability in understanding and speaking English. Students will learn to function actively in situations involving daily-life transactions. These will also include basic interactions that they will need to perform within the academic setting. All grammar, listening, and speaking activities will be taught in the context of situations. Students will also learn to pronounce correctly the basic vowel and consonant sounds of English. The material in this course will be correlated with the material taught in Foundations II (ESL 053). 3 lecture hours; 2 lab hours per week.

ESL 052 Beginning Listening/Speaking 1-4 cr. hrs.
This course is intended for the student who has limited ability in understanding and speaking English. Students will learn to function actively in situations involving daily-life transactions. These will also include basic interactions that they will need to perform within the academic setting. All listening and speaking activities will be taught in the context of situations. Students will also learn to pronounce correctly the basic vowel and consonant sounds of English. The material in this course will be correlated with the material taught in Foundations II and III. 1-3 lecture hours; .5-2 lab hours per week.

ESL 053 Foundations II 4 cr. hrs.
This course is intended for the student who has limited ability in reading and speaking English. Students will learn to function actively in situations involving daily-life transactions. These will also include basic interactions that they will need to perform within the academic setting. All listening and speaking activities will be taught in the context of situations. Students will also learn to pronounce correctly the basic vowel and consonant sounds of English. The material in this course will be correlated with the material taught in Foundations I and III. 3 lecture hours; 2 lab hours per week.

ESL 054 Beginning Reading 1-4 cr. hrs.
This course is intended for the student who has limited proficiency in reading English. Students will start by reading dialogues that contain simple words and expressions needed to function in everyday life situations and will progress to simple stories and short pieces of expository prose. Basic reading comprehension and vocabulary skills and dictionary skills will be taught. Study skills and reference materials will be introduced. The themes of the readings will progress from the everyday world of the student to the world in general. The material in this course will be correlated with the material taught in Foundations I and III. 1-3 lecture hours; .5-2 lab hours per week.

ESL 055 Foundations III 4 cr. hrs.
This course is intended for the student who has limited knowledge of English grammar and limited proficiency in writing. Students will learn to write sentences, short dialogues, simple guided and unguided paragraphs. The student will be introduced to the process of writing. The material in this course is correlated with the material in Foundations I and II. 3 lecture hours; 2 lab hours per week.

ESL 056 Beginning Grammar/Writing 1-4 cr. hrs.
This course is intended for the student who has limited proficiency in reading English. Students will start by reading dialogues that contain simple words and expressions needed to function in everyday life situations and will progress to simple stories and short pieces of expository prose. Basic reading comprehension and vocabulary skills and dictionary skills will be taught. Study skills and reference materials will be introduced. The themes of the readings will progress from the everyday world of the student to the world in general. The material in this course will be correlated with the material taught in Foundations I and III. 1-3 lecture hours; .5-2 lab hours per week.

ESL 061 Basic Sentence Structure 4 cr. hrs.
In this course, students will master the paragraph and learn the structure of the essay. Since good writing results from working through a process that begins with exploration of ideas and ends with editing, students will learn the steps of process writing and also practice the mechanics that will produce an acceptable final product. 3 lecture hours; 2 lab hours per week.

ESL 062 Intermediate Grammar 1-4 cr. hrs.
In this course, students will master the paragraph and learn the structure of the essay. Since good writing results from working through a process that begins with exploration of ideas and ends with editing, students will learn the steps of process writing and also practice the mechanics that will produce an acceptable final product. 1-3 lecture hours; .5-2 lab hours per week.

ESL 063 Reading I 4 cr. hrs.
This course is designed to develop vocabulary and reading skills at the intermediate level. Students will improve comprehension by learning to process sentence patterns that combine ideas, by reading for the main idea and the supporting details. Student will reinforce comprehensive and retention of ideas through outlining and summarizing. Students will also expand their vocabulary by learning to use context and by learning word families and affixation. An introduction to library resources is also part of this course. 3 lecture hours; 2 lab hours per week.

ESL 064 Intermediate Reading 14 cr. hrs.
This course is designed to develop vocabulary and reading skills at the intermediate level. Students will improve comprehension by learning to process sentence patterns that
combine ideas, by reading for the main idea and the supporting details. Student will reinforce comprehensive and retention of ideas through outlining and summarizing. Students will also expand their vocabulary by learning to use context and by learning word families and affixation. An introduction to library resources is also part of this course. 1-3 lecture hours; .5-2 lab hours per week.

ESL 064A Intermediate Reading Online 1 cr. hr.
This course is the online component associated with ESL 064 Intermediate Reading. It is designed to reinforce the reading, vocabulary and research skills taught in ESL 064. Students will practice reading for the main idea, reading for specific information, and reading for comprehension. They will also practice the techniques needed to retain information from the reading by writing outlines and summaries. They will learn how to find the meaning of vocabulary through context. Students will practice online research skills and use PLATO to practice reading skills. 1 lecture hour; 0 lab hours per week.

ESL 065 Writing I 4 cr. hrs.
In this course, students will master the paragraph and learn the structure of the essay. Since good writing results from working through a process that begins with exploration of ideas and ends with editing, students will learn the steps of process writing and also practice the mechanics that will produce an acceptable final product. 3 lecture hours; 2 lab hours per week.

ESL 066 Intermediate Writing 1-4 cr. hrs.
In this course, students will master the paragraph and learn the structure of the essay. Since good writing results from working through a process that begins with exploration of ideas and ends with editing, students will learn the steps of process writing and also practice the mechanics that will produce an acceptable final product. 1-3 lecture hours; .5-2 lab hours per week.

ESL 067 Listening/Speaking I 4 cr. hrs.
Prerequisite: 60-70 MTELP.
The principal objectives of this course are improve the listening and speaking skills of international students and non-native speakers of English so they can function effectively and comfortably in situations beyond the basic survival setting and to prepare them for the more specific listening and speaking tasks required in the academic setting. Students will learn to discuss topics important to well-educated people and to present persuasive opinions about them. Students will listen to lectures and learn how to take notes. They will engage in a wide variety of problem-solving activities that will help refine their analytical skills. Students will learn how to give informative, persuasive, and demonstration speeches. They will develop academic vocabulary related to the lecture themes and refine their pronunciation. 3 lecture hours; 2 lab hours per week.

ESL 068 Intermediate Oral Skills 1-4 cr. hrs.
The principal objectives of this course are improve the listening and speaking skills of international students and non-native speakers of English so they can function effectively and comfortably in situations beyond the basic survival setting and to prepare them for the more specific listening and speaking tasks required in the academic setting. Students will learn to discuss topics important to well-educated people and to present persuasive opinions about them. Students will listen to lectures and learn how to take notes. They will engage in a wide variety of problem-solving activities that will help refine their analytical skills. Students will learn how to give informative, persuasive, and demonstration speeches. They will develop academic vocabulary related to the lecture themes and refine their pronunciation. 3 lecture hours; 2 lab hours per week.

ESL 069 Pronunciation and Conversation 4 cr. hrs.
This course is intended for students who want to improve their pronunciation and to increase knowledge of the conventions of communication in English. Students will study individual vowel and consonant sounds as well as the stress and intonation patterns of English. Students will learn how individual sounds become altered in the stream of speech. In addition, students will learn how to open, control, and close conversations. They will learn how to thank, express anger, give compliments, etc., and to participate effectively in daily conversation. Students will practice their newly acquired skills while exploring the community. This class will benefit most those students with a strong commitment to work constantly to improve their pronunciation. 3 lecture hours; 2 lab hours per week.

ESL 070 Communication Skills 4 cr. hrs.
This course is intended for students who want to improve their pronunciation and to increase knowledge of the conventions of communication in English. Students will study individual vowel and consonant sounds as well as the stress and intonation patterns of English. Students will learn how individual sounds become altered in the stream of speech. In addition, students will learn how to open, control, and close conversations. They will learn how to thank, express anger, give compliments, etc., and to participate effectively in daily conversation. Students will practice their newly acquired skills while exploring the community. This class will benefit most those students with a strong commitment to work constantly to improve their pronunciation. 3 lecture hours; 2 lab hours per week.

ESL 071 Complex Sentence Structure 4 cr. hrs.
Prerequisite: ESL 061 or MTELP placement.
This course continues to build the notion of language as a structure system and continues to teach the rules that operate within the system. Students will review the noun phrase and verb phrase of simple sentences, but will focus on how the English language shows relationships among idea units. Sentence types, clause types, sequencing of tenses, and connecting words are studied in detail. Students will continue to learn structures in context. 3 lecture hours; 2 lab hours per week.

ESL 072 Advanced Grammar 14 cr. hrs.
This course continues to build the notion of language as a structure system and continues to teach the rules that operate
within the system. Students will review the noun phrase and verb phrase, but will focus on how the English language shows relationships among idea units. Sentence types, clause types, sequencing of tenses, and connecting words are studied in detail. Students will continue to learn structures in context. 1-3 lecture hours; .5-2 lab hours per week.

ESL 073 Reading II
4 cr. hrs.
Prerequisite: ESL 063 or MTELP placement.
This course is designed to give students extensive practice reading unmodified college texts and essays. It continues to increase the length and complexity of reading required of students both inside and outside class. Particular attention is paid to text structure and organization. Students are required to participate in discussions in which they critically analyze the author's approach to the articles they read. Students continue to develop vocabulary in much the same way as outlined in Reading I. They are particularly encouraged to develop a personal inventory of vocabulary based on extensive reading passages. 3 lecture hours; 2 lab hours per week.

ESL 074 Advanced Reading
14 cr. hrs.
This course is designed to give students extensive practice reading unmodified college texts and essays. It continues to increase the length and complexity of reading required of students both inside and outside class. Particular attention is paid to text structure and organization. Students are required to participate in discussions in which they critically analyze the author's approach to the articles they read. Students continue to develop vocabulary in much the same way as outlined in Reading I. They are particularly encouraged to develop a personal inventory of vocabulary based on extensive reading passages. 1-3 lecture hours; .5-2 lab hours per week.

ESL 074A Advanced Reading Online
1 cr. hr.
This course is the online component associated with ESL 074 Advanced Reading. It is designed to reinforce the reading, vocabulary and research skills taught in ESL 074. Students will practice reading unmodified college texts and essays. The length and complexity of reading required of students will continue to increase. Students will pay particular attention to text structure and organization. Students will participate in online discussion in which they critically analyze authors’ approaches to their topics. These online discussions will also analyze various aspects of the novel read in ESL 074. Students will develop a personal inventory of vocabulary based on extensive reading. Students will increase their online database and Internet research skills, and test-taking skills. 1 lecture hour; 0 lab hours per week.

ESL 075 Writing II
4 cr. hrs.
Prerequisite: ESL 065 or MTELP placement.
In this course, students will acquire the level of writing they need to succeed in their studies in college. By the end of the course, students should be able to write well-organized essays that are largely free of errors common of non-native speakers. Students will continue to work through the writing process, and learn how to write the research paper. 3 lecture hours; 2 lab hours per week.

ESL 076 Advanced Writing
14 cr. hrs.
In this course, students will acquire the level of writing they need to succeed in their studies in college. By the end of the course, students should be able to write well-organized essays that are largely free of errors common of non-native speakers. Students will continue to work through the writing process, and learn how to write the research paper. 1-3 lecture hours; .5-2 lab hours per week.

ESL 077 Listening/Speaking II
4 cr. hrs.
Prerequisite: ESL 067 or MTELP placement.
This course is designed to teach international students and non-native speakers of English the listening/speaking skills and strategies needed to participate fully and successfully in the college classroom. Students will practice listening strategies to help them understand and recall lectures. Speaking activities include small group discussions, role-playing simulation, games and debates, and speeches. Special activities include films, video taping of activities and guest speakers. Students will continue to work on pronunciation. 3 lecture hours; 2 lab hours per week.

ESL 078 Advanced Oral Skills
1-4 cr. hrs.
This course is designed to teach international students and non-native speakers of English the listening/speaking skills and strategies needed to participate fully and successfully in the college classroom. Students will practice listening strategies to help them understand and recall lectures. Speaking activities include small group discussions, role-playing simulation, games and debates, and speeches. Special activities include films, video taping of activities and guest speakers. Students will continue to work on pronunciation. 1-3 lecture hours; .5-2 lab hours per week.

Electronics Technology

ET 100 Introduction to Electricity/Electronics
3 cr. hrs.
Prerequisite: GT 108 or permission of instructor.
Study of applied electronic fundamentals with the emphasis on computer logic, binary numbering systems, sensor, and interface programming. 2 lecture hours; 2 lab hours per week.

ET 101 Electronic Symbolic Drawing
1 cr. hr.
Introduction to computer assisted drafting methods. Emphasis on electronic symbols, block, line and schematic diagrams. 0 lecture hours; 2 lab hours per week.

ET 102 Basic Electricity
3 cr. hrs.
Prerequisite: MATH 113.
The study of applied electricity for the mechanical technician with an emphasis on motors for industrial control and product design. Spring semester only. 2 lecture hours; 2 lab hours per week.

ET 103 Electronics Fundamentals
3 cr. hrs.
Prerequisite: MATH 113 or concurrent enrollment.
An introductory course in electrical and electronic circuits and measurements. Topics include resistance, voltage and current measurement; series and parallel circuits; voltage dividers; The vein’s, Kirchoff's, Ohm's, mesh and other analysis
techniques; capacitance and RC time constants; magnetic and inductive principles. 2 lecture hours; 2 lab hours per week.

**ET 108 Logic Fundamentals** 3 cr. hrs.
Prerequisite: MATH 113 or equivalent or concurrent enrollment.
Introductory coverage of binary switching and discrete computing concepts as applied to digital logic and decision making circuits. An introduction to programmed logic controls (PLC) and PC computing systems. 2 lecture hours; 2 lab hours per week.

**ET 130 System Troubleshooting I** 1-3 cr. hrs.
Students are afforded the opportunity to repair, design or develop an original project, or research and evaluate an operational system for computing or control purposes in industry. The project must be germane to the student's electronics major. .5-1 lecture hours; 1-4 lab hours per week.

**ET 153 Advanced Electronics** 3 cr. hrs.
Prerequisite: ET 103 or consent of instructor.
An advanced, course on alternating current (AC) circuit concepts. Topics include frequency, reactance, impedance, AC power, transformers, rectifiers, regulators, signal sources, amplifiers, filters, semiconductors, circuit theorems and measurement instruments. 2 lecture hours; 2 lab hours per week.

**ET 154 Industrial Power Control** 3 cr. hrs.
Prerequisite: ET 103 and ET 108 or consent of instructor.
Applications of electronics to industrial power control including SCR's, Triacs UJT's, DC and AC motors, programmable controllers, photo electric devices and three phase power distribution. 2 lecture hours; 2 lab hours per week.

**ET 158 Microcomputer Systems** 3 cr. hrs.
Prerequisite: ET 108.
An introductory course in microcomputers as applied to industrial automation. Students should be familiar with fundamental Boolean and binary concepts, logic gates and digital circuitry. 2 lecture hours; 2 lab hours per week.

**ET 200 Sensors and Analog I/O** 3 cr. hrs.
Prerequisite: MATH 113 and ET 103.
A study of common components and concepts used to control physical processes such as pressure, level, flow and temperature with PC-based systems. 1 lecture hour; 4 lab hours per week.

**ET 203 Process Automation** 3 cr. hrs.
Prerequisite: ET 103 and MATH 123 or consent of instructor.
A study of common components and concepts used to control physical processes such as pressure, level, flow and temperature with PC-based systems. 1 lecture hours; 4 lab hours per week.

**ET 206 Communication Principles** 4 cr. hrs.
Prerequisite: ET 105 or consent of instructor, or, for industrial personnel, a working knowledge of ET 105 course content.
Introduction to electronic radio, television, and two-way communications techniques, operational theories, and FCC rules and regulations. 3 lecture hours; 2 lab hours per week.

**ET 207 Communications Electronics II** 4 cr. hrs.
Prerequisite: ET 206 or consent of instructor, or, for industrial personnel, a working knowledge of ET 206 course content.
Advanced broadcast radio, television and two-way communications techniques, digital operational theories, and FCC First Class rules and regulations. 3 lecture hours; 2 lab hours per week.

**ET 208 Data Communications Networks** 3 cr. hrs.
Prerequisite: ET 108, ET 158 or consent of instructor.
A comprehensive study of computer-based communication industrial data communication systems including servers, LAN's, WAN's, protocols, EIA/TIA standards and network management. Layers, routing, transports, buses and other distributed communication networks from electronic hardware, operation and management perspectives. 1 lecture hour; 4 lab hours per week.

**ET 230 System Troubleshooting II** 1-3 cr. hrs.
Students are expected to design and develop an original research project, or evaluate an operational system for computing or control purposes in industry. The project must be germane to the student’s electronic major. .5-1 lecture hour; 1-4 lab hours per week.

**ET 235 Peripheral Devices and Systems** 3 cr. hrs.
Prerequisite: ET 220 and concurrent enrollment in ET 205.
Deals with those devices external to but associated with a computer system. Included are keyboards, monitors, disk drives, and printers. Intensive investigation of data communications and local area networks. 3 lecture hours; 0 lab hours per week.

**ET 253 Advanced Process Automation** 3 cr. hrs.
Prerequisite: MATH 123, ET 203 or consent of instructor.
An advanced course in computer control and process automation. Subjects include pneumatic controls, variants of proportional plus integral plus derivative control, loop tuning, problem diagnosis, PC-based and enterprise level automation. Course emphasizes development of hands-on skills involved with maintenance, repair and optimization of control system operation. 1 lecture hours; 4 lab hours per week.

**ET 258 Contemporary Digital Systems** 3 cr. hrs.
Prerequisite: ET 108, ET 158, ET 208 or consent of instructor.
An investigation of contemporary computing systems including artificial intelligence, neural network systems,
microcontroller programming and application, and related new

technologies. 1 lecture hour; 4 lab hours per week.

**ET 290 ET Internship Practicum** 1-4 cr. hrs.

*Prerequisite: Graduate student or last semester ET student.*

An intern experience required of all second year ET students. Students are required to perform in a technical capacity working 80 hours on the job for each credit hour enrolled. 0 lecture hour; 5-20 lab hours per week.

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**Equestrian Science**

**EQ 101 Introductory Equine Seminar** 1 cr. hr.

A study of equine industry. Special reports on select current topics. Part of class time will be utilized by visiting lecturers. Occasionally a dinner meeting may be held. Required of full-time equine students. 1 lecture hour; 0 lab hours per week.

**EQ 102 Equine Work Experience Seminar** 1 cr. hr.

Continuation of EQ 101 with special emphasis on developing the work-education experience program. 1 lecture hour; 0 lab hours per week.

**EQ 109 Horse Science Work Experience** 8 cr. hrs.

*Prerequisite: Completion of 22 semester hours in Equestrian/Horse Science curriculum or consent of instructor and concurrent enrollment in EQ 102.*

Eleven weeks of supervised training in an approved equine business. Reports by the student and satisfactory job performance required for credit. 0 lecture hours; 48 lab hours per week.

**EQ 151 Horse Production and Management** 4 cr. hrs.

An introductory course on equine reproduction. Emphasis will be on dentistry, genetics, stallion and mare reproductive anatomy and physiology, foaling and foal care and general breeding farm management. 3 lecture hours; 2 lab hours per week.

**EQ 152 Farm Machinery Operations** 1 cr. hr.

This course is designed to provide individual machinery operation instruction to students that desire to increase their knowledge and improve their skills operating machinery commonly used on a horse farm/ranch. 1 lecture hour; 0 lab hours per week.

**EQ 154 Horse Equipment and Facilities** 3 cr. hrs.

Students will learn principles of planning for equine facilities. Emphasis will be on selection, design, construction and operation and maintenance of structure. 3 lecture hours; 0 lab hours per week.

**EQ 158 Horse Evaluation I** 1 cr. hr.

Provides students an opportunity to gain experience in evaluating horses. There will be time spent on developing and presenting oral reasons. 1 lecture hour; 0 lab hours per week.

**EQ 159 Horse Evaluation II** 1 cr. hr.

*Prerequisite: EQ 158 or consent of instructor.*

Provides students an opportunity to gain experience in evaluating horses. Time will be spent on developing and presenting oral reasons. Continuation of EQ 158. 1 lecture hour; 0 lab hours per week.

**EQ 161 Principles and Methods of Stock Seat Equitation** 4 cr. hrs.

The principles and methods of stock seat equitation will be studied including developing communication between rider and horse, proper positioning of the rider, process of aids and cues, and equitation guidelines. 3 lecture hours; 2 lab hours per week.

**EQ 167 Fundamentals of Horse Handling and Training** 3 cr. hrs.

*Prerequisite: Satisfactory completion of 15 credit hours in horse/Horse Science curriculum or consent of the instructor.*

Fundamentals of horse handling and training will be covered, including stall maintenance and daily care, grooming, ground work, principles of breaking, and basic training techniques under saddle. 2 lecture hours; 2 lab hours per week.

**EQ 168 Horsemanship Lessons** 1 cr. hr.

*Prerequisite: EQ 161 and consent of instructor.*

Individual riding lessons developed to improve horse and rider communication, balance, strength, and relaxed concentration. 1 lecture hour; 0 lab hours per week.

**EQ 201 Advanced Equine Work Experience Seminar** 1 cr. hr.

*Prerequisite: EQ 102/109.*

Special emphasis on preparing for advanced training for final supervised work-education experience and career planning. 1 lecture hour; 0 lab hours per week.

**EQ 209 Advanced Horse Science Work Experience** 5 cr. hrs.

*Prerequisites: EQ 102/109 and concurrent enrollment in AG 201.*

Similar to EQ 109 with emphasis on developing advanced skills in the equine industry. 0 lecture hours; 48 lab hours per week.

**EQ 253 Horse Health Care** 3 cr. hrs.

A study of the methods of prevention and control of typical equine diseases and parasites. Also included will be treatment of common injuries and congenital disorders. 3 lecture hours; 0 lab hours per week.

**EQ 254 Stable Management** 4 cr. hrs.

A study of horse laws, taxes, advertising, buying and selling, insurance, accounting and records as related to the horse industry. Emphasis will be placed on how to achieve a profitable and functional operation in the horse industry as a breeder, trainer or stable manager. 3 lecture hours; 2 lab hours per week.
EQ 258 Horse Evaluation III  1 cr. hr.
Prerequisite: EQ 158/159.
Provides students an opportunity to gain experience in evaluating horses. Time will be spent on developing and presenting oral reasons. 1 lecture hour; 0 lab hours per week.

EQ 259 Horse Evaluation IV  1 cr. hr.
Prerequisite: EQ 158/159.
Provides students an opportunity to gain experience in evaluating horses. Time will be spent on developing and presenting oral reasons. Continuation of EQ 258. 1 lecture hour; 0 lab hours per week.

EQ 262 Principles and Methods of English Equitation  4 cr. hrs.
Prerequisite: EQ 161 or consent of instructor.
The principles and methods of saddle seat and hunt seat equitation will be studied including developing communication between rider and horse, proper positioning of rider, process of aids and cues, and equitation guidelines. 3 lecture hours; 2 lab hours per week.

EQ 263 Methods of Teaching Horsemanship  2 cr. hrs.
Prerequisites: EQ 161, EQ 262, or consent of instructor.
Methods of Teaching Horsemanship is an introduction to the theory of teaching horsemanship. Analysis of objectives and the development of lesson plans for youth and adult beginning, intermediate and advanced riders will be removed. 1 lecture hour; 2 lab hours per week.

EQ 264 Advanced Horse Training and Development  4 cr. hrs.
Prerequisites: EQ 161, EQ 262, or consent of instructor.
Students will use procedures learned in all previous equitation courses to develop product that is standard in response, style and way of going. They will be able to further develop the use of aids and cues, proper positioning, communication between rider and horse, and equitation guidelines. 3 lecture hours; 2 lab hours per week.

EQ 265 Farrier Science  2 cr. hrs.
Prerequisite: EQ 161 or consent of instructor.
Complete preparation of the horse for the show ring, consisting of grooming, mane pulling, braiding mane and tail, clipping and bandaging. Basic leather care and correct appointments will also be explained. 1 lecture hour; 2 lab hours per week.

EQ 266 Horse Show Preparation and Management  2 cr. hrs.
Prerequisite: EQ 161 or consent of instructor.
Comprehensive study of the horse's foot, its function, anatomy, care, shoeing, related problems and techniques of corrections. 1 lecture hour; 2 lab hours per week.

EQ 268 Intermediate Horse Training and Development  3 cr. hrs.
Prerequisite: EQ 161 and 262 or consent of instructor.
The study of early training of a horse beginning with groundwork and translating it into riding. Emphasis is placed on developing a knowledge and use of transition training and developing the horse through body control and resistance free training. 2 lecture hours; 2 lab hours per week.

French

FREN 101 Elementary French I  4 cr. hrs.
First course of a two semester sequence in elementary French with emphasis upon speaking, listening, comprehension, reading, writing, and culture. 4 lecture hours; 0 lab hours per week.

FREN 102 Elementary French II  4 cr. hrs.
Prerequisite: One year of high school French with a "C" or above or a semester of college French with a "C" or above.
Second course of a two semester sequence in elementary French with emphasis upon speaking, listening comprehension, reading, writing, and culture. 4 lecture hours; 0 lab hours per week.

FREN 201 Intermediate French I  4 cr. hrs.
Prerequisite: Two years of high school French with a "C" or above or two semesters of college French with a "C" or above.
First course of a two semesters sequence in intermediate French with emphasis on oral proficiency, grammar review, composition, literary readings and study of Francophone culture and civilization. 4 lecture hours; 0 lab hours per week.

FREN 202 Intermediate French II  4 cr. hrs.
Prerequisite: Three years of high school French with "C" or above or three semesters of college French with a "C" or above.
Second course of a two semester sequence in Intermediate French with emphasis on oral proficiency, grammar review, compositions, literary readings, and study of the Francophone culture and civilization. 4 lecture hours; 0 lab hours per week.
IAI: H1 900

FREN 253 Advanced French I  3 cr. hrs.
Prerequisite: Four years of high school French with a "C" or above or four semesters of college French with "C" or above or the equivalent.
First course of a two semester sequence in advanced French with emphases on both the spoken and written language. Students become familiar with classical and modern literary pieces, newspaper articles, films, etc. 3 lecture hours; 0 lab hours per week. IAI: H1 900
FREN 254 Advanced French II 3 cr. hrs.
Prerequisite: Four years of high school French with a “C” or above, or five semesters of college French with “C” or above or the equivalent.
Second course of a two semester sequence in advanced French with emphases on both the spoken and written language. Students become familiar with classical and modern literary pieces, newspaper articles, films, etc. 3 lecture hours; 0 lab hours per week. IAI: H1 900

Fire Service Officer

FSO 112 Command Officer Management I 3 cr. hrs.
Acquaints student with the role of Company Officer and provides an introduction to basic management theories, practices, and functions. 3 lecture hours; 0 lab hours per week.

FSO 114 Fire Prevention Principles 3 cr. hrs.
Course is designed to meet the needs of individuals who are expanding their knowledge about fire department operations, specifically fire prevention. 3 lecture hours; 0 lab hours per week.

FSO 115 Tactics and Strategies I 3 cr. hrs.
Introduction to basic principles and methods associated with fire ground tactics and strategy as required of the Fire Service Company Officer. 3 lecture hours; 0 lab hours per week.

FSO 118 Fire Service Instructor I 3 cr. hrs.
Course provides basic information about human relations in the teaching-learning environment, methods of teaching, and proper method of writing lesson plans. 3 lecture hours; 0 lab hours per week.

FSO 212 Command Officer Management II 3 cr. hrs.
Prerequisite: FSO 112 or permission of instructor.
Presents the principles of communication and group dynamics as they relate to the Company Officer. 3 lecture hours; 0 lab hours per week.

FSO 215 Fire Fighting Tactics and Strategies II 3 cr. hrs.
Prerequisite: Tactics and Strategy I or consent of instructor.
Advances principles and methods associated with fire ground strategies and tactics required of the Multi-Company Officer or Fire Service Chief Officer. 3 lecture hours; 0 lab hours per week.

FSO 218 Fire Service Instructor II 3 cr. hrs.
Prerequisite: Fire Service Instructor I or consent of instructor.
Continuation of Instructor I; human relations, methods of teaching, and method of writing lesson plans. 3 lecture hours; 0 lab hours per week.

FSO 224 Command Officer Management III 3 cr. hrs.
Prerequisite: Command Officer Management I and II or consent of instructor.
Provides management principles and techniques used by mid-level Managers and Chief Officers in the fire service. 3 lecture hours; 0 lab hours per week.

FSO 225 Command Officer Management IV 3 cr. hrs.
Prerequisite: Command Officer Management III or consent of Instructor.
Study of management principles of public relations, lab relations, administrative liability, and personnel management used in the fire service. 3 lecture hours; 0 lab hours per week.

Engineering

GE 100 An Introduction to Engineering 1-3 cr. hrs.
Introduction to the field of engineering and necessary computational skills. 3 lecture hours; 0 lab hours per week.

GE 101 Engineering Graphics and Geometry 3 cr. hrs.
Prerequisite: Math 118 or concurrent enrollment in Math 118.
Introduction to basic graphing concepts including use of equipment, orthographic projection, geometric construction, and pictorial representation. Applications of orthographic projection of the engineering design process, introduction to computer-aided graphing using personal computers. 1 lecture hour; 4 lab hours per week. IAI: EGR 941

GE 102 Engineering Graphics and Geometry 3 cr. hrs.
Prerequisite: GE 101 or equivalent.
Advanced graphics and descriptive geometry. 1 lecture hour; 4 lab hours per week. IAI: EGR 941

GE 201 Analytical Mechanics Statics 3 cr. hrs.
Prerequisite: PHYS 201 or permission of instructor.
Vector and calculus approach to principles of statics. 3 lecture hours; 0 lab hours per week. IAI: EGR 942

GE 202 Analytical Mechanics Dynamics 3 cr. hrs.
Prerequisite: GE 201.
Vector and calculus study of the displacement velocity and acceleration of particles and rigid bodies. 3 lecture hours; 0 lab hours per week. IAI: EGR 943

GE 205 Elementary Mechanics of Deformable Bodies 3 cr. hrs.
Prerequisite: GE 201.
The study of the stress and strain of deformable bodies due to external loading. Such stresses include tension, compression, shear, bending, and deflection. 3 lecture hours; 0 lab hours per week. IAI: EGR 945

Geography

GEOG 101 Physical Geography 4 cr. hrs.
A study of earth orbital factors affecting time, tides and seasons; climate, weather, soils and vegetation; interaction between Man and the natural resources; map reading. 3 lecture hours; 2 lab hours per week. IAI: P1 909L
GEOG 102 Physical Geography 4 cr. hrs.
The changing earth's crust and surface; how natural forces such as rivers, streams, glaciers, weathering, earthquakes and volcanism affect the surface and composition of the earth; Man's interactions with his environment; fundamental map concepts. 3 lecture hours; 2 lab hours per week. IAI: P1 909L

GEOG 105 Introductory Regional Geography 3 cr. hrs.
A study of the world's cultural, economic, historical, political, environmental and physiographic features. The regions examined and discussed include Europe, North America, South America, Africa, Asia and the Pacific. 3 lecture hours; 0 lab hours per week. IAI: S4 900N

GEOG 106 Introductory Meteorology 3 cr. hrs.
Introduction to atmospheric science leading to a better understanding of day-to-day weather, including frontal systems and severe storms. 3 lecture hours; 0 lab hours per week. IAI: P1 905

GEOG 107 An Introduction to Geography 3 cr. hrs.
For the non-science major. Study of selected regions of the world showing the complex interrelationship of Man, culture and environment. 3 lecture hours; 0 lab hours per week.

Geology

GEOL 101 Physical Geology 4 cr. hrs.
The study of the earth's composition and forces which affect it; minerals, rocks, weathering, erosion, volcanism, structure, earthquakes and plate tectonics. 3 lecture hours; 2 lab hours per week. IAI: P1 907L

GEOL 102 Historical Geology 4 cr. hrs.
Study of the origin and evolution of the earth as interpreted from the evidence in rock sequences and fossils. 3 lecture hours; 2 lab hours per week. IAI: P1 907L

GEOL 170 Chemistry of the Earth 3 cr. hrs.
Examines earth's physical environment from geological and chemical standpoints; economically important earth materials, and Man’s interaction with the environment. 3 lecture hours; 0 lab hours per week.

GEOL 201 Mineralogy 3 cr. hrs.
Prerequisite: GEOL 101
Introductory study of minerals, their crystallography, chemical properties, recognition and occurrence. 2 lecture hours; 2 lab hours per week.

GEOL 202 Invertebrate Paleontology 3 cr. hrs.
Prerequisite: GEOL 102.
Introduction to major fossil invertebrate phyla, especially those with major stratigraphic significance. 2 lecture hours; 2 lab hours per week.

German

GERM 101 Elementary German I 4 cr. hrs.
First course of a two semester sequence in elementary German with emphasis upon speaking, listening comprehension, reading, writing and culture. 4 lecture hours; 0 lab hours per week.

GERM 102 Elementary German II 4 cr. hrs.
Prerequisite: One year of high school German with a "C" or above or a semester of college German with "C" or above.
Second course of a two semester sequence in elementary German with emphasis upon speaking, listening comprehension, reading, writing and culture. 4 lecture hours; 0 lab hours per week.

GERM 201 Intermediate German I 4 cr. hrs.
Prerequisite: Two years of high school German with a "C" or above or two semesters of college German with a "C" or above.
First course of a two semester sequence in intermediate German with emphasis upon oral proficiency, grammar review, compositions, literary readings, and study of German culture and civilization. 4 lecture hours; 0 lab hours per week.

GERM 202 Intermediate German II 4 cr. hrs.
Prerequisite: Three years of high school German with a "C" or above or three semesters of college German or above or equivalent.
Second course of a two semester sequence in intermediate German with emphasis on oral proficiency, grammar review, compositions, literary readings, and study of the German culture and civilization. 4 lecture hours; 0 lab hours per week. IAI: H1 900

GERM 253 Advanced German I 3 cr. hrs.
Prerequisite: Four years of high school German with a "C" or above, or four semesters of college German with a "C" or above or equivalent proficiency.
First course of a two semester sequence in advanced German with emphases on both the spoken and written language. Students become familiar with classical and modern literary pieces, newspaper articles, films, etc. 3 lecture hours; 0 lab hours per week. IAI: H1 900

GERM 254 Advanced German II 3 cr. hrs.
Prerequisite: Four years of high school German with a "C" or above, or five semesters of college German with "C" or above or equivalent.
Second course of a two semester sequence in advanced German with emphases on both the spoken and written language. Students become familiar with classical and modern literary pieces, newspaper articles, films, etc. 4 lecture hours; 0 lab hours per week. IAI: H1 900

General Technology

GT 101 Basic Technical Drafting 5 cr. hrs.
Basic study of drafting, lettering, sketching, use of drawing instruments, applied geometry, orthographic projection,
auxiliary views, sections, dimensioning, and pictorial drawing. 2 lecture hours; 6 lab hours per week.

**GT 102 Descriptive Geometry**  2 cr. hrs.  
Prerequisite: GT 101 or, for industrial personnel, a working knowledge of GT 101 course content.  
Theoretical and practical problems involving size, shape; relative position of common geometrical magnitudes such as line, planes and solids. 1 lecture hour; 2 lab hours per week.

**GT 144 Computer Programming**  4 cr. hrs.  
Prerequisite: MATH 123 or, for industrial personnel, a working knowledge of MATH 123 course content.  
Acquaints students with use of mainframe and microcomputers by programming in high level languages. Emphasis on basic principles of programming and use in technical applications. 3 lecture hours; 2 lab hours per week.

**GT 151 Surveying I**  4 cr. hrs.  
Prerequisite: MATH 123 or consent of instructor.  
Fundamentals of surveying operations, procedures and computations. Theory of errors, instrumentation, traversing, curves, mapping and earthwork. Field operations of levels and transits. 3 lecture hours; 2 lab hours per week.

**GT 152 Surveying II**  4 cr. hrs.  
Prerequisite: GT 151 or consent of instructor.  
Continuation of surveying operations, procedures and computations. Theory of errors, triangulation, control surveys, route alignment and photogrammetry. 3 lecture hours; 2 lab hours per week.

**GT 200 Independent Study**  1-3 cr. hrs.  
Prerequisite: Sophomore standing and permission of instructor.  
Experiences in open laboratory setting. Development of peer teaching, technical communication, and lab analysis skills. 0 lecture hours; 3-9 lab hours per week.

**Health Careers**

**HC 100 Introduction to Health Careers**  1 cr. hr.  
This course provides the student with understanding of various health careers. Self-appraisal, critical analysis of health careers, workplace and professional skills, safety issues and shadowing experiences are included. 5 lecture hours; 1 lab hour per week.

**Health**

**HEAL 102 Living in a Changing World**  2 cr. hrs.  
Focuses on wise health practices and consumer health service information. 2 lecture hours; 0 lab hours per week. IAI: ECE 901

**History**

**HIST 120 The Foundation of Western Culture**  3 cr. hrs.  
Surveys foundations of Western civilization beginning with its emergence in river valleys of the Ancient Near East. Among the cultures studied are those of Egypt, Mesopotamia, Greece and Rome. Particular emphasis is given to preservation and transmission of their knowledge to the medieval world. 3 lecture hours; 0 lab hours per week. IAI: H2 900

**HIST 121 The Emergence of Western Culture**  3 cr. hrs.  
Explores emergence of Western civilization in Europe, beginning with an overview of the contributions of the ancient world. Includes rise of feudal monarchies, evolution of the Church, creation of stable economic systems, and stimulation of cultural achievements. Emphasis is given to gradual transformation of those medieval institutions which served as foundations for the modern world. 3 lecture hours; 0 lab hours per week. IAI: H2 900, HST 913

**HIST 122 The Expansion of Western Culture**  3 cr. hrs.  
Surveys expansion of Western civilization since the 17th century. Examines the Age of Kings, the French Revolution and Napoleon, the development of nationalism and industrialism, and the rising tide of international violence in the 20th century. Particular emphasis is given to the spread of Western ideas and institutions throughout the world. 3 lecture hours; 0 lab hours per week. IAI: H2 902, HST 914

**HIST 141 Eastern Civilization I**  3 cr. hrs.  
Surveys the foundations of Eastern civilization beginning with its origins in the River Valleys of India and China. Particular emphasis is given to the development of major Asian societies, noting the creation of stable political and economic systems, and the stimulation of significant cultural achievements. Among the cultures studied are those of India, China, and Japan. 3 lecture hours; 0 lab hours per week. IAI: S2 908N

**HIST 142 Eastern Civilization II**  3 cr. hrs.  
Surveys the continued development of Eastern civilization in the modern period, noting not only the richness of its cultural achievements, but also the impact of and the responses to the Western imperial presence. Particular emphasis is given to the gradual transformation of Asian societies and the variety of influences which led to political independence in the 20th century. Among the cultures studied are those of India, China, and Japan. 3 lecture hours; 0 lab hours per week. IAI: S2 909N

**HIST 151 History of the Middle East Since 1700**  3 cr. hrs.  
Surveys Middle Eastern civilization with an emphasis on the period between 1700 and the present. Includes an examination of political, economic, social and religious development and the current condition of the Middle East. 3 lecture hours; 0 lab hours per week. IAI: S2 919N

**HIST 181 History of Latin American Civilization to 1825**  3 cr. hrs.  
Surveys Latin American civilization from the pre-Columbian era to 1825. Examines Mesoamerican Indians, the Hispanic conquest of the Indians, the evolution of colonial institutions and the wars of liberation. 3 lecture hours; 0 lab hours per week. IAI: S2 910N
HIST 182 History of Latin American Civilization Since 1825  
Surveys Latin American civilization since 1825. Includes an examination of political, social and economic development and the current condition of Latin America. 3 lecture hours; 0 lab hours per week. IAI: S2 911N

HIST 200 African American History  
Prerequisite: HIST 251 or HIST 252 recommended.  
Surveys African American experience and contributions, including analysis of leading personalities, ideologies, and enduring institutions, that have shaped the nature and direction of American life and culture. 3 lecture hours; 0 lab hours per week.

HIST 203 Mexican American History  
Traces history of the Mexican-American. Centers upon development of Mexican-American culture and the attempt to maintain that culture within the mainstream of American life. 3 lecture hours; 0 lab hours per week.

HIST 205 Topics in History 1  
Intensive study of particular topics in history. Topics will vary and will be announced in advance: history of presidential greatness, survey of crime and punishment, the holocaust, Vietnam conflict. This course may be repeated once (up to 6 hrs.) provided that different topics are considered. 3 lecture hours; 0 lab hours per week.

HIST 210 Directed Study in History  
Prerequisite: Consent of instructor.  
Offers serious student an opportunity to probe more deeply into an area of history in which there is a particular interest. Offered in conjunction with a regularly scheduled class and meets for one additional hour per week. 1 lecture hour; 0 lab hours per week.

HIST 222 Comparative Religions  
Discusses from a contemporary point of view the great religions of the world as they emerged and developed in the Orient noting both their beliefs, practices and works of inspiration as well as the cultural impact they have had on those societies throughout the world which shaped and adopted them. 3 lecture hours; 0 lab hours per week. IAI: H5 904N

HIST 231 History of England to 1688  
Explores history of England until 1688 and examines development of royal power, challenge of the feudal aristocracy, evolution of a national church, and rise of parliament. 3 lecture hours; 0 lab hours per week.

HIST 232 History of England Since 1688  
Surveys English history since the glorious revolution. Analyzes evolution of parliamentary government, development of a complex commercial and industrial society, emergence of democratic trends in political and social life, and the growth of an overseas empire. 3 lecture hours; 0 lab hours per week.

HIST 236 Economic History of the United States  
Examines progression of the United States from a rural farming nation to an urban industrialized nation dominant in the world’s economic system. Demonstrates how principles of economics have operated in an historical setting. 3 lecture hours; 0 lab hours per week.

HIST 251 History of the United States to 1865  
Surveys the history of the United States from the discovery of America through 1865, including settlement and westward expansion, the development of the American government, the growth of the American economy, the evolution of an American style of life and thought, and the development of sectionalism culminating in the Civil War. 3 lecture hours; 0 lab hours per week. IAI: S2 900, HST 911

HIST 252 History of the United States Since 1865  
Examines history of the United States from close of the Civil War through the present, including the rise of the U.S. as a major world power, the continued growth and development of the federal government, efforts to improve the status of minorities and women, the growth of the economy, and the changing pattern of American life. 3 lecture hours; 0 lab hours per week. IAI: S2 901, HST 912

HIST 253 American Revolution  
A review of the political, social and economic causes of the American Revolution coupled with a survey of the events, personalities, and outcomes of the war itself. 3 lecture hours; 0 lab hours per week.

HIST 254 American Civil War  
A survey of the political, social, economic and military events associated with the American Civil War. 3 lecture hours; 0 lab hours per week.

HIST 255 History of Illinois  
Explores history of Illinois from the earliest times to the present. Examines evolution of the Indian cultures of the area, development of European colonization and settlement, organization of Illinois as a territory and state, and emergence of a complex agricultural and industrial society. 3 lecture hours; 0 lab hours per week.

HIST 256 American Westward Expansion  
Study of westward expansion and the influence of the frontier in American history from colonial times. 3 lecture hours; 0 lab hours per week.

HIST 265 World War II  
Surveys the origins, development, and consequences of World War II from the end of World War I to the establishment of the "Cold War". 3 lecture hours; 0 lab hours per week.

Health, Physical Education and Recreation

HPE 101122 VARSITY SPORTS  
Prerequisite: Permission of instructor.  
0 lecture hour; 2 clinical hours required per week
HPE 101 Golf (Freshman)
HPE 102 Golf (Sophomore)
HPE 103 Cross Country (Freshman)
HPE 104 Cross Country (Sophomore)
HPE 107 Basketball (Freshman)
HPE 108 Basketball (Sophomore)
HPE 111 Indoor Track (Freshman)
HPE 112 Indoor Track (Sophomore)
HPE 113 Volleyball (Freshman)
HPE 114 Volleyball (Sophomore)
HPE 115 Softball (Freshman)
HPE 116 Softball (Sophomore)
HPE 117 Track (Freshman)
HPE 118 Track (Sophomore)
HPE 119 Baseball (Freshman)
HPE 120 Baseball (Sophomore)
HPE 121 Tennis (Freshman)
HPE 122 Tennis (Sophomore)

HPE 125 Physical Fitness I  1 cr. hr.
This physical education course is open to all students. It is designed to accommodate each student's fitness needs. Emphasis is placed on three areas of physical fitness: 1) an introduction to the holistic health concepts of physical fitness; 2) importance of regular exercise for all people; and 3) the systematic practice of fitness exercises in order to improve one's strength, flexibility and cardiovascular endurance. Universal equipment is used in the laboratory phase of the course to develop more effectively one's level of physical fitness. 0 lecture hours; 2 lab hours per week.

HPE 126 Physical Fitness II  1 cr. hr.
Prerequisite: HPE 125 or consent of instructor.
This physical education course is a continuation of HPE 125 and is open to all students who have successfully completed HPE 125. It is designed to teach intermediate level concepts and to accommodate each student's needs. Emphasis is placed on intermediate concepts of fitness, strength, flexibility and cardiovascular endurance. Universal equipment will be used in the laboratory phase to develop one's level of fitness. 0 lecture hours; 2 lab hours per week.

HPE 127 Physical Fitness III  1 cr. hr.
Prerequisite: HPE 126 or consent of instructor.
This physical education course is a continuation of HPE 126 and is open to all students who have successfully completed HPE 126. It is designed to accommodate each student's needs. Emphasis is placed on advanced levels of physical fitness, strength, flexibility and cardiovascular endurance. Universal equipment is used in the laboratory phase to develop more effectively advanced levels of physical fitness. 0 lecture hours; 2 lab hours per week.

HPE 128 Physical Fitness IV  1 cr. hr.
Prerequisite: HPE 127 or consent of instructor.
This physical education course is a continuation of HPE 127 and is open to all students who have completed HPE 127. It is designed to provide advanced fitness concepts and skills based on individual needs. Emphasis is placed on advanced fitness levels of strength, flexibility and cardiovascular endurance. Universal equipment is used in the laboratory phase of the course to develop more effectively advanced levels of physical fitness. 0 lecture hours; 2 lab hours per week.

HPE 130 Soccer  .5-1 cr. hr.
Analysis and learning of movement skills involved in soccer. 0 lecture hours; 1-2 lab hours per week.

HPE 131 Touch Football .  .5-1 cr. hr.
Analysis and learning of movement skills involved in touch football. 0 lecture hours; 1-2 lab hours per week.

HPE 132 Volleyball .5-1 cr. hr.
Analysis and learning of movement skills involved in volleyball. 0 lecture hours; 1-2 lab hours per week.

HPE 133 Basketball I .5-1 cr. hr.
Analysis and learning of movement skills involved in basketball. 0 lecture hours; 1-2 lab hours per week.

HPE 134 Softball .5-1 cr. hr.
Analysis and learning of movement skills involved in softball. 0 lecture hours; 1-2 lab hours per week.

HPE 135 Conditioning .5-1 cr. hr.
Methods of attaining and maintaining physical fitness. Sections include figure control, jogging, swimming and other specific activities. 0 lecture hours; 1-2 lab hours per week.

HPE 138 Beginning Cross Country Skiing .5-1 cr. hr.
Introduction to the recreational sport of cross country skiing, its skills, history, equipment and safety. 0 lecture hours; 1-2 lab hours per week.

HPE 139 Beginning Skiiing .5-1 cr. hr.
Analysis and learning of movement skills involved in skiing. 0 lecture hours; 1-2 lab hours per week.

HPE 142 Personal Defense .5-1 cr. hr.
Judo, Karate, Tae Kwon Do, or Tai Chi Chuan martial arts. Special course may be offered for women or seniors in
specific techniques of self-defense. May be repeated three (3) times. 0 lecture hours; 1-2 lab hours per week.

**HPE 143 Fitness Assessment I** 1 cr. hr.  
Introduction to an exercise program incorporating knowledge of exercise beneficial to the health of the individual. 0 lecture hour; 2 lab hours per week.

**HPE 144 Fitness Improvement II** 1 cr. hr.  
Prerequisite: HPE 143 or permission of instructor.  
Guided experiences in aerobic activities to improve physical well-being of the individual. May be repeated three (3) times. 0 lecture hours; 2 lab hours per week.

**HPE 145 Fitness Maintenance III** 1 cr. hr.  
Prerequisite: HPE 143 or permission of instructor.  
Guided experiences in aerobic activities to maintain selected level of health and fitness. May be repeated three (3) times. 0 lecture hours; 2 lab hours per week.

**HPE 148 Bicycling** 1 cr. hr.  
Benefits of exercise and conditioning will be discussed for the beginning and avid bicyclist. Includes fundamentals of repair and maintenance, safety, and trip planning. A weekend bike trip to be included. 0 lecture hours; 2 lab hours per week.

**HPE 149 Karate Tae Kwon Do Intermediate** 1 cr. hr.  
Prerequisite: HPE 142 or permission of instructor.  
Continuation of Tae Kwon Do or Karate. 0 lecture hours; 2 lab hours per week.

**HPE 151 Archery** .5-1 cr. hr.  
Study of movement skills, rules and etiquette of target and field archery. 0 lecture hours; 1-2 lab hours per week.

**HPE 152 Golf** .5-1 cr. hr.  
Study of movement skills, rules and etiquette of golf. Driving range and green fees are the responsibility of the student. 0 lecture hours; 1-2 lab hours per week.

**HPE 153 Fencing** .5-1 cr. hr.  
Study of movement skills, rules and etiquette of foil fencing. 0 lecture hours; 1-2 lab hours per week.

**HPE 154 Gymnastics** .5-1 cr. hr.  
Study of various apparatus and skills of basic gymnastics. 0 lecture hours; 1-2 lab hours per week.

**HPE 155 Weight Training** .5-1 cr. hr.  
Proper design of weight training program and use of equipment for body development. 0 lecture hours; 1-2 lab hours per week.

**HPE 156 Social Dance** 1 cr. hr.  
Beginning instruction in social dance incorporating basic techniques and mechanics of each type of dance. 0 lecture hours; 2 lab hours per week.

**HPE 157 Fundamentals of Basketball** 1 cr. hr.  
This course is designed for the physical education major student who will be teaching fundamentals of basketball. Includes analysis of movement skills and basketball drills. 0 lecture hours; 2 lab hours per week.

**HPE 158 Badminton** .5-1 cr. hr.  
Study of movement skills, rules and etiquette of badminton. 0 lecture hours; 1-2 lab hours per week.

**HPE 159 Racquetball** 1 cr. hr.  
Fundamental skills, techniques and strategy of racquetball. 0 lecture hours; 2 lab hours per week.

**HPE 160 Bowling** .5-1 cr. hr.  
Study of movement skills, rules and etiquette of bowling. Fees for use of alleys and shoes are the responsibility of students. 0 lecture hours; 1-2 lab hours per week.

**HPE 161 Modern Dance** .5-1 cr. hr.  
Basic movement vocabulary, movement exploration, and the elements of composition and accompaniment in dance as a creative art experience. 0 lecture hours; 1-2 lab hours per week.

**HPE 162 Tennis** .5-1 cr. hr.  
Study of movement skills, rules and etiquette of beginning tennis. Student must furnish own equipment. 0 lecture hours; 1-2 lab hours per week.

**HPE 163 Fundamentals of Track and Field** 1 cr. hr.  
This course is designed for the physical education major who will be teaching fundamentals of track and field. Includes analysis of movement skills and rules of various track and field events. 0 lecture hours; 2 lab hours per week.

**HPE 166 Intermediate Golf** .5-1 cr. hr.  
Prerequisite: HPE 152 or instructor's permission.  
Advanced skills, rules and etiquette of golf. Equipment, driving range and green fees are responsibility of student. 0 lecture hours; 1-2 lab hours per week.

**HPE 167 Intermediate Tennis** .5-1 cr. hr.  
Advanced skills, rules and etiquette of tennis. Equipment is responsibility of student. 0 lecture hours; 1-2 lab hours per week.

**HPE 168 Advanced Weight Training** .5-2 cr. hrs.  
Prerequisite: HPE 155 or permission of instructor.  
Advanced skills and techniques of body building. 0 lecture hours; 1-4 lab hours per week.

**HPE 171 Modern Dance II** .5-1 cr. hr.  
Continuation of technical development begun in beginning modern dance including dance techniques and basic composition. 0 lecture hours; 1-2 lab hours per week.

**HPE 172 Beginning Ballet** .5-1 cr. hr.  
Introduction to beginning ballet terminology and technique. 0 lecture hours; 1-2 lab hours per week.
HPE 173 Skiing II  1 cr. hr.
Prerequisite: HPE 139 or permission of the instructor.
Advanced instructional program for the intermediate to advanced skier. 0 lecture hours; 2 lab hours per week.

HPE 190 Beginning Swimming  .5-1 cr. hr.
Introduction to movement skills of aquatic activities for the non-swimmer and beginning swimmer. May be repeated three (3) times. 0 lecture hours; 1-2 lab hours per week.

HPE 191 Intermediate Swimming  .5-1 cr. hr.
Analysis and practice of the five basic swimming strokes. Maybe repeated three (3) times. 0 lecture hours; 1-2 lab hours per week.

HPE 193 Lifeguard Training  1.5 cr. hrs.
Prerequisites: Must be at least 15 years old and pass a swimming test as established by the American Red Cross.
Introduction to and practice of five basic swimming strokes. .5 lecture hours; 2 lab hours per week.

HPE 194 Water Safety Instructor  1.5 cr. hrs.
Prerequisites: Must be 17 years old and pass a swim test the first night of class.
Prepares student to teach Red Cross certification courses in swimming. 0.5 lecture hour; 2 lab hour per week.

HPE 200 First Aid  1-3 cr. hrs.
Methods and skills of emergency care for the ill or injured victim. May be repeated twice. Variable credit as follows:
1.0-Cardio-Pulmonary Resuscitation and Standard First Aid
3.0-Cardio-Pulmonary Resuscitation, Advanced First Aid and Emergency Care Red Cross certification upon successful completion of course. 1-3 lecture hours; 1-3 lab hours per week.

HPE 203 Sports Officiating  1 cr. hr.
Instruction in techniques of officiating selected sports. Includes rules, interpretations, professional ethics, preparation for state certification, and practical experience. Separate courses may be offered for individual sports. 0.5 lecture hours; 1 lab hour per week. Repeatable 4 times.

HPE 211 Introduction to Community Recreation  2 cr. hrs.
Provides beginning student with background, development, scope and status of community recreation, its organization and management. 2 lecture hours; 0 lab hours per week.

HPE 212 Introduction to Physical Education  2 cr. hrs.
Survey course designed for the major student. Basic understanding of the function and purposes of physical education in public schools and in non-traditional settings. 2 lecture hours; 0 lab hours per week.

HPE 213 Horseback Riding I  1 cr. hr.
Instruction in horseback riding including general characteristics of the horse; equipment use and placement; horse care and grooming; walk, trot and canter; and tacking and untacking. 0 lecture hours; 2 lab hours per week.

HPE 215 Leadership in Leisure Activities  3 cr. hrs.
Areas of service, types of programs and activities, and leadership structure in recreational use of leisure time (laboratory experiences required). 2 lecture hours; 2 lab hours per week.

HPE 216 Selected Topics in Phys Ed  2 cr. hrs.
Prerequisites: HPE major or permission of instructor.
HPE 216 is designed to meet the needs of students in the areas of physical education and sport through the identification of standard and controversial issues in those fields. Topics will encompass the social, legal, and philosophical aspects of physical education and sport. Topics will be researched by students using library resources. 2 lecture hours; 0 lab hours per week.

HPE 220 Anatomy and Physiology I  3 cr. hrs.
Anatomical and anthropometrical components of human movement as they relate to exercise. 3 lecture hours; 0 lab hours per week.

HPE 221 Anatomy and Physiology II  3 cr. hrs.
Physiological components of human movement. 3 lecture hours; 0 lab hours per week.

HPE 230 Intramural Management  1-4 cr. hrs.
Studies the organization and management of intramural and recreational activities. Each student is required to assist in officiating, supervising, and planning of activities. .1 lecture hour; 2-4 lab hours per week.

HPE 240 Theory of Track and Field  2 cr. hrs.
The theory and fundamentals of track and field. Study of various track and field events, team training, rules of competition and management of meets. 2 lecture hours; 0 lab hours per week.

HPE 250 Theory of Basketball  2 cr. hrs.
Theory and fundamentals of basketball. Study of systems of offense and defense, tactics, methods of practice, team training and conditioning. 2 lecture hours; 0 lab hours per week.

HPE 260 Physical Education, Grades 1-6  3 cr. hrs.
Activities, materials and techniques for teaching physical education on the elementary school level. 3 lecture hours; 0 lab hours per week.

Horticulture

HORT 190 ID of Landscape Plants  3 cr. hrs.
The identification of shrubs used in landscaping. Discussion of cultural requirements, insects, and diseases found on these plants along with emphasis on pruning, transplanting, and design use. 3 lecture hours; 0 lab hours per week.

HORT 191 Beginning Floral Design  3 cr. hrs.
The principles of design using flowers and foliage are discussed with emphasis on how these principles of design impact everyday life. 3 lecture hours; 0 lab hours per week.
HORT 192 Landscape Design 3 cr. hrs.
The basic appearance, presentation, and placement of ornamental horticulture plants in the landscape. Concepts of balance, form, harmony, and focal points as they relate to commercial and home landscape are emphasized. 2 lecture hours; 2 lab hours per week.

HORT 193 Trees/Arboriculture 3 cr. hrs.
The identification, care and use of nature and introduced trees. Special emphasis on techniques such as cabling and pruning. 3 lecture hours; 0 lab hours per week.

HORT 194 Identification of Horticultural Plants 3 cr. hrs.
This course includes the study of structures, physiology, reproduction and the identification of common horticultural plants. Basic horticultural practices are emphasized. 3 lecture hours; 0 lab hours per week.

HORT 195 Vegetable Production 3 cr. hrs.
Designed to give the garden grower general knowledge regarding common vegetable crops. Emphasis is on growing conditions and proper care of vegetables. 3 lecture hours; 0 lab hours per week.

HORT 196 Perennials and Ground Cover 3 cr. hrs.
Provides a working knowledge of herbaceous perennials such as irises, peonies, lilies, and many others with respect to diseases, insects, propagation, and design. 3 lecture hours; 0 lab hours per week.

HORT 198 Turf and Lawn Management 1-3 cr. hrs.
The management and care of various turf grasses and their related problems. Emphasis is placed on practical equipment instruction, weeds, insects and diseases as they relate to golf courses, parks, sod production and home lawns. 3 lecture hours; 0 lab hours per week.

HORT 199 Trees/Arboriculture 3 cr. hrs.
The study of bramble fruits (red and black raspberries, blackberries, blueberries, and others), and grapes and their production. Emphasis is on growing conditions, cultural practices and production of small fruits. 3 lecture hours; 0 lab hours per week.

HORT 201 Horticulture Business Management 3 cr. hrs.
The study of retail and wholesale horticulture businesses including management and future opportunities. Field trips include local nurseries, greenhouses, garden center, seed and equipment dealers. Emphasis is on financing, tax records, land purchase, advertising, ownership and small business practices. Includes a case study of horticulture related business of students' interest. 3 lecture hours; 2 lab hours per week.

HORT 202 Golf Course Management 3 cr. hrs.
Designed to provide advanced establishment skills of turf areas pertaining to golf courses. Additional study of irrigation systems, equipment maintenance, fees, and bunker development. Strong emphasis on fertilizer, drainage, mowing and control of weeds, diseases and insects. 3 lecture hours; 0 lab hours per week.

HORT 203 Horticulture Research Internship .5-2 cr. hrs.
Prerequisite: One year required horticulture courses and consent of the instructor.
Study of special problems or research in the areas of horticulture. Experience of facilities such as the Quad City Botanic Garden. 8 weeks experience. 0 lecture hours; 2.5-10 lab hours.

HORT 204 Intro to Horticultural Science 3 cr. hrs.
An introduction to the principles and practices involved in the development, production and use of horticultural crops (fruits, vegetables, greenhouse, turf, nursery, floral and landscape). 3 lecture hours; 0 lab hours per week. IAI: AG 905

HORT 205 Horticulture Work Experience 5 cr. hrs.
Eight weeks of supervised training in an approved horticulture business. Reports by the student and job satisfactory performance required for credit. 0 lecture hours; 40 lab hours per week.

HORT 206 Horticulture Work Experience 5 cr. hrs.
Eight weeks of supervised training in an approved horticulture business. Reports by the student and job satisfactory performance required for credit. 0 lecture hours; 40 lab hours per week.

HORT 207 Horticulture Work Experience 5 cr. hrs.
Eight weeks of supervised training in an approved horticulture business. Reports by the student and job satisfactory performance required for credit. 0 lecture hours; 40 lab hours per week.

HORT 208 Horticulture Work Experience 5 cr. hrs.
Eight weeks of supervised training in an approved horticulture business. Reports by the student and job satisfactory performance required for credit. 0 lecture hours; 40 lab hours per week.

HORT 284 Intro to Horticultural Science 3 cr. hrs.
An introduction to the principles and practices involved in the development, production and use of horticultural crops (fruits, vegetables, greenhouse, turf, nursery, floral and landscape). 3 lecture hours; 0 lab hours per week. IAI: AG 905

HORT 292 Greenhouse Crops 3 cr. hrs.
Designed for study of major greenhouse crops normally produced in the fall/spring or year around. Light, water, fertilization, disease and insect control, use of chemical growth regulators, crop scheduling and cost accounting, and marketing theory are emphasized. 2 lecture hours; 2 lab hours per week.

HORT 293 Small Fruits and Viticulture 3 cr. hrs.
The study of bramble fruits (red and black raspberries, blackberries, blueberries, and others), and grapes and their production. Emphasis is on growing conditions, cultural practices and production of small fruits. 3 lecture hours; 0 lab hours per week.

HORT 294 Greenhouse Management 3 cr. hrs.
Emphasis on greenhouse equipment, maintenance, installation and design. Special topics include: fertilizer injectors; pesticide spraying equipment; steam sterilization systems; and heating, cooling, and CO₂ units. Methods of energy conservation in the greenhouse, crop fertilization and watering practices. 2 lecture hours; 2 lab hours per week.

HORT 295 Landscape Construction Maintenance and Operation 3 cr. hrs.
Techniques and uses of materials as they relate to construction of various features. Emphasis is on using surveying instruments and concrete and paving materials and many other landscape components. 2 lecture hours; 2 lab hours per week.

HORT 296 Horticulture Business Management 3 cr. hrs.
The study of retail and wholesale horticulture businesses including management and future opportunities. Field trips include local nurseries, greenhouses, garden center, seed and equipment dealers. Emphasis is on financing, tax records, land purchase, advertising, ownership and small business practices. Includes a case study of horticulture related business of students' interest. 3 lecture hours; 0 lab hours per week.

HORT 297 Golf Course Management 3 cr. hrs.
Designed to provide advanced establishment skills of turf areas pertaining to golf courses. Additional study of irrigation systems, equipment maintenance, fees, and bunker development. Strong emphasis on fertilizer, drainage, mowing and control of weeds, diseases and insects. 3 lecture hours; 0 lab hours per week.

Humanities

HUM 101 Humanities I 3 cr. hrs.
Introduction to key concepts, major characteristics, and outstanding works in Western art, architecture, music, philosophy, theater, literature and history from the Graeco-Roman world to the present. 3 lecture hours; 0 lab hours per week. IAI: HF 900

HUM 102 Humanities II 3 cr. hrs.
Introduction to key concepts, major characteristics, and outstanding works in art, architecture, music, philosophy, theatre, literature and history from several cultures, Western
and non-Western. 3 lecture hours; 0 lab hours per week. IAI: HF 901

Independent Study

INDEPENDENT 299 Independent Study 1-4 cr. hrs.
Prerequisites vary among departments.
Designed to serve as a capstone for an instructional program for students with unusual interests and abilities and to include special educational projects that cannot normally be obtained in another course or in the classroom. Students work individually with a faculty member to plan and carry out a project that requires self-directed study. Enrollment requires prior permission. 1 lecture hour; 10 lab hours per week.

International Studies

IS 205 Topics in International Studies .5-5 cr. hr.
Independent study or group study designed to fit the needs of an individual student or a group of students. 0.5-5 lecture hour; 0 lab hours per week.

IS 215 Topics/Issues in Business 3 cr. hrs.
Seminar on a specific topic or current issue in one or more business fields. No topic/problem seminar can be offered more than twice within three years. (Topic to be listed on the student's permanent academic record.) 3 lecture hours; 0 lab hours per week.

IS 220 Global Issues 3 cr. hrs.
This course introduces students to contemporary global issues and international relations. These diverse, complex issues stem from the synergistic interaction of economic, socio-cultural, and political factors. This course examines various influences that impact global issues, such as nation-states, governmental and non-governmental organizations as well as issues relating to gender, ethnicity, and power. The course also explores causes of conflicts and reviews potential solutions to contemporary global crises. 3 lecture hours; 0 lab hours per week.

IS 250 American Culture and Civilization 1-3 cr. hrs.
This course is an interdisciplinary exploration of the contemporary culture and civilization of the United States. Readings, lectures, videos and activities focus on the trends and issues that reflect American lifestyles and values. This course is intended for international students and for American students who seek a deeper understanding of American culture. 1-3 lecture hours; 0 lab hours per week.

Italian

ITAL 101 Elementary Italian I 4 cr. hrs.
First course of a two semester sequence in elementary Italian with emphasis upon speaking, listening comprehension, reading, writing, and culture. 4 lecture hours; 0 lab hours per week.

ITAL 102 Elementary Italian II 4 cr. hrs.
Prerequisite: One year of high school Italian with a "C" or above, or one semester of college Italian with a "C" or better. Second course of two semester sequence in elementary Italian with emphasis upon speaking, listening comprehension, reading, writing, and culture. 4 lecture hours; 0 lab hours per week.

Japanese

JAPN 101 Elementary Japanese I 5 cr. hrs.
First course of a two semester sequence in elementary Japanese with emphasis upon speaking, listening comprehension, reading, writing, and culture. 5 lecture hours; 0 lab hours per week.

JAPN 102 Elementary Japanese II 5 cr. hrs.
Prerequisite: One year of high school Japanese with a "C" or higher or a semester of college Japanese with a "C" or better. Second course of a two semester sequence in elementary Japanese with emphasis upon speaking, listening comprehension, reading, writing, and culture. 5 lecture hours; 0 lab hours per week.

JAPN 201 Intermediate Japanese I 5 cr. hrs.
Prerequisite: Two years of high school Japanese with a "C" or above, or two semesters of college Japanese with a "C" or above.
First course of a two semester sequence in intermediate Japanese with emphasis upon oral proficiency, grammar review, composition, literary readings, and study of Japanese culture and civilization. 5 lecture hours; 0 lab hours per week.

JAPN 202 Intermediate Japanese II 5 cr. hrs.
Prerequisite: Three years of high school Japanese with a "C" or above or three semesters of college Japanese with a “C” or above or equivalent.
Continuation of Japanese 201 with additional work on oral proficiency, grammar reviews, composition, literary readings and study of Japanese culture and civilization. 5 lecture hours; 0 lab hours per week.

JAPN 253 Advanced Japanese I 3 cr. hrs.
Prerequisite: Four years of high school Japanese with a "C" or above or four semesters of college Japanese with a “C” or above or equivalent.
Further development of language skills to increase fluency in spoken language and the ability to read without translating. Readings in modern Japanese essays from leading Japanese scholars and men of letters. 3 lecture hours; 0 lab hours per week. IAI: H1 900

JAPN 254 Advanced Japanese II 3 cr. hrs.
Prerequisite: Four years of high school Japanese with a "C" or above, five semesters of college Japanese with a “C” or above, or equivalent.
Continuation of Japanese 253 with readings in Japanese modern essays, comparative and conversation. 3 lecture hours; 0 lab hours per week. IAI: H1 900
Journalism

JOUR 221 Introduction to Mass Communications 3 cr. hrs.
Study of the communications process. Newspapers, magazines, books, radio, television, and motion pictures. 3 lecture hours; 0 lab hours per week. IAI: MC 911

JOUR 222 Beginning Reporting 3 cr. hrs.
Prerequisite: Concurrent enrollment in ART 200 - Desktop Publishing
Instruction in the mechanics of reporting and writing a news story. 3 lecture hours; 0 lab hours per week.

JOUR 225 Advanced Reporting 3 cr. hrs.
Prerequisite: JOUR 222
Experience in more difficult assignments and stories. Principles and practices of developing interpretative articles, features and editorials for the news media. 3 lecture hours; 0 lab hours per week.

JOUR 230 Newspaper Production 2 cr. hrs.
Laboratory experience in the design, assembly and publishing of the college newspaper. Designed to give instruction and experience in all phases of production: editing procedures, rewriting, composition, heading and cutting. 0 lecture hours; 6 lab hours per week.

Latin

LAT 101 Elementary Latin I 4 cr. hrs.
First course of a two-semester sequence in elementary Latin. Includes vocabulary, grammar, transition, readings and introduction to the ancient Roman culture and civilization. 4 lecture hours; 0 lab hours per week.

LAT 102 Elementary Latin II 4 cr. hrs.
Prerequisite: One year of high school Latin with a “C” or above or a semester of college Latin.
Second course of a two-semester sequence in elementary Latin. Includes vocabulary, grammar, translation, readings, and introduction to the ancient Roman culture and civilization. 4 lecture hours; 0 lab hours per week.

Law Enforcement

LAWN 101 Police Organization and Administration I 3 cr. hrs.
To provide an analysis of accepted administrative methods as applied to police staff functions such as: Personnel Management, Budget Control, Internal Controls, Planning and Research, Records and Communications, Housing and Materials, Federal Assistance and Law Enforcement Planning, and Government Setting for Police Work. 3 lecture hours; 0 lab hours per week.

LAWN 109 Police Community Relations 3 cr. hrs.
A study of the development of police community relations as both a tool for the street officer and on administrative philosophy of management. Included is an in-depth study of community oriented policing. 3 lecture hours; 0 lab hours per week.

LAWN 152 Criminology and Delinquent Behavior 3 cr. hrs.
This course attempts to deal with the complexity of the Juvenile Delinquency problem in the United States in a way that will give meaning and direction to the law enforcement practitioner that must deal with the problem every day. 3 lecture hours; 0 lab hours per week. IAI: CRJ 914

LAWN 251 Criminal Investigation 3 cr. hrs.
Introduction to various law enforcement investigation techniques emphasizing crime scene investigation. May be repeated three (3) times. 2 lecture hours; 2 lab hours per week.

LAWN 255 Criminal Law I 3 cr. hrs.
Study of development of the federal Constitution and the history of the Bill of Rights; includes in-depth study of first eight Amendments to the Constitution. 3 lecture hours; 0 lab hours per week.

LAWN 257 Police Ethics 3 cr. hrs.
A study of ethics as it relates specifically to Law Enforcement, Police Science and the Criminal Justice process. 3 lecture hours; 0 lab hours per week.

Liberal Studies

LIB 240 Prior Learning Portfolio 1 cr. hrs.
Prerequisite: Competence in basic writing skills and permission of instructor.
Survey of the history, theory, and processes of experiential learning and writing, documentation, and self-assessment techniques necessary for student preparation of a portfolio for the assessment of prior experiential learning. Each student prepares a portfolio. Intended for adults with significant life or work experience. 1 lecture hours; 0 lab hours per week.

LIB 250 Field Study 1-4 cr. hrs.
Prerequisite: Consent of instructor or ALS Coordinator of Experiential Learning.
For the student with a special interest or educational need that is related to a job or a work setting and who wishes to complete a practicum within the area. A weekly seminar meeting is included. 2 lecture hours; 18 lab hours per week.

LIB 260 Internship 2-5 cr. hrs.
Prerequisite: Consent of instructor.
For the student with a special interest or educational need that is related to a job or a work setting and who wishes to complete supervised work experience in preparation for future employment. 2 lecture hours; 20 lab hours per week.

Mathematics

MATH 080 Basic Mathematical Skills 3 cr. hrs.
Prerequisite: Appropriate placement score.
Review of basic computational skills including operations with fractions, decimals, percent, ratio and proportion, English
and metric measurement, and formulas for area, perimeter and volume. 3 lecture hours; 0 lab hours per week.

MATH 081 Basic Algebra 3 cr. hrs.
Prerequisite: Appropriate placement score or MATH 080 with a grade of "C" or higher.
Introductory algebra includes sets, properties of real numbers, operations with rational and irrational numbers, monomials and polynomials, basic factoring, solving first and second degree equations, and an introduction to linear and quadratic functions and their graphs. 3 lecture hours; 0 lab hours per week.

MATH 085 Plane Geometry 3 cr. hrs.
Prerequisite: MATH 081 with a grade of "C" or better.
Includes construction techniques, congruency, angles and triangles, similar polygons, parallel lines and planes, areas and volume, logic, and formal proofs. 3 lecture hours; 0 lab hours per week.

MATH 086 Fundamentals of Algebra 5 cr. hrs.
Prerequisite: MATH 080 with a grade of "A" or appropriate placement score.
This is a combination of elementary and intermediate algebra. Topics covered include real number concepts, linear equations and inequalities, exponents and polynomials, factoring rational expressions, linear systems, roots and radicals, and quadratic functions. 5 lecture hours; 0 lab hours per week.

MATH 090 Intermediate Algebra 5 cr. hrs.
Prerequisite: Appropriate placement score or MATH 081 with a grade of "C" or higher.
Extension of basic algebraic properties and techniques. Includes real number properties polynomials, factoring, rational expressions, logarithm, and exponents, first and second degree equations and inequalities, functions, and graphing. 5 lecture hours; 0 lab hours per week.

MATH 091 Intermediate Algebra Review 3 cr. hrs.
Prerequisite: Appropriate placement score or MATH 081 with a grade of "C" or higher.
Extension of basic algebraic properties and techniques. Includes real number properties polynomials, factoring, rational expressions, logarithm, and exponents, first and second degree equations and inequalities, functions, and graphing. 3 lecture hours; 0 lab hours per week.

MATH 100 Math for Elementary Teachers I 3 cr. hrs.
Prerequisite: MATH 086, 090, or 091 with a grade of "C" or better or by algebra assessment; MATH 085 or high school geometry.
First course in a two-course sequence designed for elementary education majors. Topics in this course include sets, whole numbers, functions, numeration and computation, number theory, integers, rational numbers, and mathematical reasoning. General education credit given only to students in curricula leading to state certifications elementary teachers and/or special education teachers. 3 lecture hours; 0 lab hours per week.

MATH 103 Essentials of Technical Math 5 cr. hrs.
Prerequisite: Assessment of technical math skills determines the most accurate course placement and is strongly recommended.
This course includes a thorough review of arithmetic, an in-depth study of plane geometry concepts, an introduction to the metric system, and an introduction to trigonometry. 5 lecture hours; 0 lab hours per week.

MATH 108 Statistics for General Education 3 cr. hrs.
Prerequisite: MATH 086, 090 or 091 with a grade of "C" or higher or by algebra assessment; MATH 085 or high school geometry.
General education course in basic principles and procedures of statistics including levels of measurement, graphic presentation, descriptive measures of central tendency and dispersion, inferential statistics and hypothesis testing, analysis of variance and regression. Course includes use of computer software and interpretation of statistical data reported in subject matter literature. 3 lecture hours; 0 lab hours per week. IAI: M1 902

MATH 110 Mathematics for General Education 3 cr. hrs.
Prerequisite: MATH 086, 090 or 091 with a grade of "C" or better or by algebra assessment; MATH 085 or high school geometry.
A course designed to contribute to the general education of any college student. Contemporary problems will be investigated and solved using the mathematical concepts of logic, counting techniques, probability and statistics, logarithmic and exponential functions. 3 lecture hours; 0 lab hours per week. IAI: M1 904

MATH 112 College Algebra 4 cr. hrs.
Prerequisite: MATH 086, 090 or 091 with a grade of "C" or better or by algebra assessment; MATH 085 or high school geometry.
Includes theory, graphs, and applications of polynomial, rational, exponential, and logarithmic functions (including symmetry and translations); inequalities, radicals, complex numbers, conics, systems of equations and matrices, permutations and combinations. 4 lecture hours; 0 lab hours per week.

MATH 113 Technical Algebra and Geometry 5 cr. hrs.
Prerequisite: MATH 103 with a grade of "C" or better or technical math assessment.
Topics include a review of basic algebraic operations, geometric concepts, functions and graphs, trigonometric functions, systems of linear equations, factoring polynomials, and quadratic equations. 5 lecture hours; 0 lab hours per week.

MATH 116 Trigonometry 3 cr. hrs.
Prerequisite: MATH 086, 090 or 091 with a grade of "C" or better or by algebra assessment; MATH 085 or high school geometry.
Includes circular functions, identities, conditional equations, right triangle trigonometry, solution of oblique triangles, inverse functions, complex numbers, and polar coordinates. 3 lecture hours; 0 lab hours per week.
MATH 118 Precalculus 5 cr. hrs.
Prerequisite: MATH 086, 090 or 091 with a grade of "C" or better or by algebra assessment; Math 085 or high school geometry.
MATH 118 is equivalent to completion of both MATH 112 and 116. Includes field axioms, polynomial, rational, exponential, logarithmic and circular functions and graphing, analytic trigonometry, conics, systems of equations, matrices, complex numbers and math induction. A student who has no trigonometry background should take MATH 112 and 116. 5 lecture hours; 0 lab hours per week.

MATH 123 Technical Algebra/Trigonometry 5 cr. hrs.
Prerequisite: MATH 113 with a grade of "C" or better or technical math assessment.
Trigonometric functions, vectors, complex numbers, radical equations, graphing, exponential and logarithmic functions, and related use of graphing calculator. 5 lecture hours; 0 lab hours per week.

MATH 124 Calculus I with Analytic Geometry 4 cr. hrs.
Prerequisite: MATH 118 or MATH 112 and 116 with a grade of "C" or better or by algebra assessment.
First semester calculus including analytic geometry, with emphasis on functions, limits, continuity, derivative and some of its applications, differentials, antiderivatives, and the definite integral. 4 lecture hours; 0 lab hours per week. IAI: M1 900, EGR 901, MTH 901

MATH 131 Finite Mathematics for Business 3 cr. hrs.
Prerequisite: MATH 112 with a grade of "C" or better or by algebra assessment
This course applies the concepts of algebra to problems found in economics, business, and non-physical sciences. The emphasis is on applications, not on mathematical structure. Topics include linear systems and programming, matrix algebra, mathematics of finance, an introduction to probability and game theory. 3 lecture hours; 0 lab hours per week. IAI: M1 906

MATH 132 Mathematical Analysis for Business 4 cr. hrs.
Prerequisite: MATH 112 with a grade of "C" or better or by algebra assessment.
A calculus course which includes differential and integral calculus as applied to business, economics, social sciences and natural science. Includes functions, limits, derivatives and applications, integrals and applications, and introduction to functions of several variables. 4 lecture hours; 0 lab hours per week. IAI: M1 900

MATH 161 Discrete Mathematics 3 cr. hrs.
Prerequisite: MATH 112 with a grade of "C" or better or by algebra assessment.
Includes the study of sets, functions, relations, logic and proof, mathematical induction, counting techniques, graph theory, trees, networks and recurrence relations. 3 lecture hours; 0 lab hours per week. IAI: M1 905; CS 915

MATH 200 Math for Elementary Teachers II 3 cr. hrs.
Prerequisite: MATH 100 with a grade of "C" or better.
Second course in a two-course sequence designed for elementary education majors. Topics in this course include decimals, real numbers, statistics, probability, geometric figures, measurement, geometric transformations, and coordinate geometry. General education credit given only to students in curricula leading to state certification as elementary teachers and/or special education teachers. 3 lecture hours; 0 lab hours per week. IAI: M1 903 (Must take Math 100 and Math 200 for IAI use.)

MATH 223 Technical Calculus 5 cr. hrs.
Prerequisite: MATH 123 with a grade of "C" or better or technical math assessment.
Analytic geometry, an introduction to statistical methods, limits, and differential and integral calculus with emphasis on applications in science, engineering, and technology. 5 lecture hours; 0 lab hours per week.

MATH 225 Calculus II with Analytic Geometry 4 cr. hrs.
Prerequisite: MATH 124 with a grade of "C" or better.
Second semester calculus. Includes applications of the definite integral, transcendental functions, techniques of integration, sequences and series, polar coordinates and parametric equation. 4 lecture hours; 0 lab hours per week. IAI: M1 900, EGR 902, MTH 902

MATH 226 Calculus III with Analytic Geometry 5 cr. hrs.
Prerequisite: MATH 225 with a grade of "C" or better.
Includes vectors and vector valued functions, surfaces in 3-spacedifferential and integral calculus of multivariate functions, vector fields, line and surface integrals. 5 lecture hours; 0 lab hours per week. IAI: M1 900, EGR 903, MTH 903

MATH 228 Probability and Statistics 3 cr. hrs.
Prerequisite: MATH 112 with a grade of "C" or better or by algebra assessment.
Descriptive and inferential methods. Includes measures of central tendency, dispersion, correlation, regression, analysis of variance, parameter estimation, hypothesis testing and distributions of random variables and the use of computer packages for analysis of data. 3 lecture hours; 0 lab hours per week. IAI: M1 902, BUS 901

MATH 230 Linear Algebra 3 cr. hrs.
Prerequisite: MATH 225 with a grade of "C" or better.
Study of vector spaces with an emphasis on proof. Topics include matrices and determinants, linear systems, linear transformations, eigenvalues, eigenvectors and applications numerical techniques. 3 lecture hours; 0 lab hours per week. IAI: MTH 911

MATH 235 Differential Equations 3 cr. hrs.
Prerequisite: MATH 226 with a grade of "C" or better.
Study of ordinary differential equations, existence and uniqueness of solutions, and related theorems. Topics include variation of parameters, Bessel functions, systems, power series solutions, numerical approximations, and transform
methods. 3 lecture hours; 0 lab hours per week. IAI: EGR 904, MTH 912

**Mechanical Drafting**

**MD 101 Product Drafting** 5 cr. hrs.
Prerequisite: GT 101 or, for industrial personnel, a good working knowledge of GT 101 course content or, consent of the instructor.

As a progression to basic drafting, Product Drafting is an advanced mechanical drawing course that will further prepare the student with entry level employment skills needed in today's job market. With the application of CAD in most all disciplines, the student will receive extensive applications of three-dimensional descriptive geometry as it pertains to CAD. Included to develop skills will be drawings done on CAD in the second half of the semester dealing with auxiliary views, (primary and secondary), sections, developments and flat blank layout, detail and assembly drawings, and fits and limits. Drawings will be done using different software packages. CAD lab. 2 lecture hours; 6 lab hours per week.

**Mechanics**

**MECH 102 Brake and Hydraulic Systems** 1-4 cr. hrs.
Brake systems, maintenance, repair and adjustment. Topics include wheel balance and power steering. 2 lecture hours; 4 lab hours per week.

**MECH 103 Electrical Systems I** 4 cr. hrs.
Theoretical and practical aspects of electrical systems and components used on vehicles. Batteries, cranking, charging, ignition, accessory components and circuit wiring will be emphasized. 2 lecture hours; 4 lab hours per week.

**MECH 104 Electrical Systems II** 1-4 cr. hrs.
Study of electronics, regulation systems, injection systems, components and accessories. Circuit understanding, troubleshooting, repair and service will be emphasized. 2 lecture hours; 4 lab hours per week.

**MECH 105 Fuel Control Systems** 4 cr. hrs.
Basic fuel system principles of operation, (electronic feedback carburetion principles), and electronic fuel injection systems will be covered. 2 lecture hours; 4 lab hours per week.

**MECH 108 Hydraulic Transmissions** 1-3 cr. hrs.
The study of theory, operation, service and repair of powershift and/or automatic transmissions. Emphasis will be placed on current use transmissions. Student skill development in analysis and repair procedures will be stressed. 2 lecture hours; 2 lab hours per week.

**MECH 109 Power Trains** 3 cr. hrs.
A working knowledge of the functions, designs, construction and service of automotive power trains. Course emphasis to be on various types of clutches, three-, four- and five-speed manual transmissions, drive lines, rear axles and differentials. 2 lecture hours; 2 lab hours per week.

**MECH 111 Engine Repair I** 4 cr. hrs.
An introductory course for the application and principles of operation of modern engines. Emphasis placed on measurement, engine machining, engine repair and general service to engines used in modern vehicles. 2 lecture hours; 4 lab hours per week.

**MECH 112 Air Conditioning** 3 cr. hrs.
Fundamentals of operation and service of air conditioners and cooling units used on auto and agricultural applications. 2 lecture hours; 2 lab hours per week.

**MECH 211 Engine Repair II** 4 cr. hrs.
Application of theory to engine repair; analysis of engine failures, engine machining, service repair to engine systems. Emphasis on practical decision making and development of repair skills. 2 lecture hours; 4 lab hours per week.

**MECH 213 Business Management** 3 cr. hrs.
A course specially designed for Automotive Technology students, centering on organization and management of dealerships with emphasis on parts and service department operating procedures. 3 lecture hours; 0 lab hours per week.

**MECH 215 Advanced Service I** 6 cr. hrs.
Prerequisite: Forty-five or more hours completed in the Automotive program.
A laboratory oriented course dealing with simulated field experience. Practical service procedures will be stressed. 1 lecture hour; 10 lab hours per week.

**MECH 219 Diesel Engines** 4 cr. hrs.
A study of foreign and American small and midsize diesel engine systems. Emphasis on service of the fuel systems and engine components peculiar to the diesel engine. 2 lecture hours; 4 lab hours per week.

**MECH 290 Work Experience Internship Seminar** 1 cr. hr.
Course would serve as a counseling/training supplement for students on service internship. Among the topics covered are interpersonal relationships, job requirements, liability and legal concerns, tool and equipment needs and technical instruction on current problems. 1 lecture hour; 0 lab hours per week.

**MECH 291 Work Experience Internship** 6 cr. hrs.
On-the-job training program. Emphasis is placed on organizing skill development experiences in a work setting. 0 lecture hours; 30 lab hours per week.

**Military Science**

**MS 113 Intro to Military Science** 2 cr. hrs.
This course is an introduction to the Military System focusing on basic Army knowledge. It is a survey course designed to encourage development of fundamental leadership and management skills which provide a foundation for personal growth and leadership study. 2 lecture hour; 0 lab hours per week.
MS 211 Basic Military Science I  2 cr. hrs.
Methods of military instruction and introduction to educational psychology applicable in military instruction, effective techniques in presentation, and the role of the Army in national defense. 2 lecture hours; 0 lab hours per week.

MS 212 Basic Military Science II  2 cr. hrs.
Military map reading and land navigation, and introduction to military leadership and management. Application of map reading with introduction and practical exercise. 2 lecture hours; 0 lab hours per week.

Manufacturing Technology

MT 104 Mechanical Blueprint Reading  3 cr. hrs.
Learning to read blueprints based on orthographic projection. Dimensions, tolerances and specifications of casting, machined parts and fabricated sheet metal parts are studied using inch/metric units of measurement. 2 lecture hours; 2 lab hours per week.

MT 105 Manufacturing Processes I  5 cr. hrs.
Operation of lathes, mills, saws and drill presses. Basic measuring techniques, safety procedures and machine tool theory. 2 lecture hours; 6 lab hours per week.

MT 106 Manufacturing Processes II  5 cr. hrs.
Prerequisite: MT 105 or demonstration of working knowledge of MT 105 course content.
Continuation of MT 105. More complex machine setups and operations. Importance of using different machines in machining a complex part. Use of grinders and mills is stressed. 2 lecture hours; 6 lab hours per week.

MT 108 Inspection and Measurement  2 cr. hrs.
Principles, terminology and instrumentation of dimensional measurement with lab experience using precision measurement equipment. 1 lecture hour; 2 lab hours per week.

MT 114 Basic Precision Measurement  2 cr. hrs.
Measuring techniques required for machine operations in industry. 1 lecture hour; 2 lab hours per week.

MT 120 Materials of Engineering  2 cr. hrs.
Basic materials of engineering, including ferrous and non-ferrous metals, inorganic non-metallic materials, wood products, plastics, and rubber. 2 lecture hours; 0 lab hours per week.

MT 200 Computerized Numerical Control  4 cr. hrs.
Prerequisite: MT 106 or manufacturing experience.
Principles, techniques and applications of the automatic control of machines by numerically coded instructions. Programming systems and laboratory experience with CNC machines. 2 lecture hours; 4 lab hours per week.

MT 210 Hydraulics and Pneumatics  4 cr. hrs.
Basic components of hydraulics and pneumatic systems and their use for power transmission and control purposes. 3 lecture hours; 2 lab hours per week.

MT 211 Manufacturing Economics  3 cr. hrs.
The influence of design and production techniques on manufacturing costs. Work simplifications and value analysis techniques. 3 lecture hours; 0 lab hours per week.

MT 213 CNC Lathe Programming  4 cr. hrs.
Prerequisite: MT 200 or CNC manufacturing experience.
CNC programming is studied and parts are machined on a CNC turning center (lathe). Topics include: programming formats, canned cycles, cutter compensation, auxiliary machine control functions and machine safety. 2 lecture hours; 4 lab hours per week.

MT 214 Computer Numerical Control Programming  4 cr. hrs.
Prerequisite: MT 200 or CNC manufacturing experience.
Three axis CNC programming is studied and parts are machined on a three axis contouring CNC vertical milling machine. Topics include: programming format, CNC language, canned cycles, cutter compensation and auxiliary machine control functions. 2 lecture hours, 4 lab hours per week.

MT 215 Computer Aided Manufacturing (CAM) Programming  4 cr. hrs.
Prerequisite: MT 200 or CNC manufacturing experience.
Students will program CNC machine tools using a computer aided manufacturing system. The student will define part geometry, sequence of operations and cutter path. The parts will be manufactured on a CNC machine. 2 lecture hours; 4 lab hours per week.

MT 220 Statics and Strength of Materials  6 cr. hrs.
Prerequisite: MATH 123 or, for industrial personnel, a working knowledge of MATH 123 course content.
Study of static force systems, calculations of centroids, centers of gravity, friction, moments of inertia, shear and moment diagrams. Properties of materials. Determining stress and strain of materials when loaded in tension, compression, shear or torsion, and combined loadings. 6 lecture hours; 0 lab hours per week.

MT 230 Metallurgy and Heat Treatment  4 cr. hrs.
Concepts and principles of heat treatment of ferrous metals. 3 lecture hours; 2 lab hours per week.

MT 240 Quality Control Inspection  3 cr. hrs.
This course will utilize advanced technology, precision measuring devices and equipment for dimensional inspection of work pieces to insure quality control within the manufacturing processes. The lecture-lab format will have theory and use of measuring equipment and practical lab for manual inspection of work pieces. Lab work will require knowledge of basic precision hand-type measuring tools, and a practical application of geometry and trigonometry. 2 lecture hours; 2 lab hours per week.
MT 244 Computer Graphics  3 cr. hrs.
Prerequisite: GT 101, computerized drafting placement test, or permission of instructor.
Basic application of computers for computer aided design/computer aided manufacturing (CAD/CAM). Discussion of computer systems and CAD features relating to design and manufacturing. Students will expand knowledge and skill of computer aided drafting systems through the use of computer terminals. 1 lecture hour; 4 lab hours per week.

MT 245 Computer Aided Drafting I  3 cr. hrs.
Prerequisite: MT 244 or permission of instructor.
Students will expand knowledge of a CAD system through actual use of a computer terminal to design 2-D drawings and have drawings plotted based on the computer data base. 1 lecture hour; 4 lab hours per week.

MT 246 Computer Aided Drafting II  3 cr. hrs.
Prerequisite: MT 245.
Continuation of MT 245 with the addition of more complex 3-D design problems. 1 lecture hour; 4 lab hours per week.

MT 247 Computer Aided Drafting III  3 cr. hrs.
Prerequisite: MT 246.
Students will expand knowledge and skill of computer aided drafting systems through the use of computer terminals and additional software. The emphasis will be on advanced applications. 1 lecture hour; 4 lab hours per week.

MT 270 Integrated Manufacturing  3 cr. hrs.
A survey of computer integrated manufacturing, machines and methods in industrial processes. Course will examine the role of sensors, controllers, PLC’s, PC’s, and contemporary concepts such as cellular manufacturing. Just-In-Time, concurrent engineering and continuous improvement. 3 lecture hours; 2 lab hours per week.

MT 290 Manufacturing Technology Practicum  1-4 cr. hrs.
A supervised on-the-job experience for manufacturing technology degree students to assist and/or research industrial production operations as a required internship. 0 lecture hours; 20 lab hours per week.

Music

MUSC 101 Instrumental Ensemble  1 cr. hr.
Standard band literature as well as chamber music, and other material as required. String instrumentalists are also welcome. No auditions required. No more than 4 credit hours will apply toward a degree. 0 lecture hours; 2 lab hours per week. IAI: MUS 908

MUSC 102 Stage Band  1 cr. hr.
Preparation, exploration, and performance of popular music suitable for dance band instrumentation. No more than 4 credit hours will apply toward a degree. 0 lecture hours; 3 lab hours per week. IAI: MUS 908

MUSC 103 Instrumental Chamber Ensemble  1 cr. hr.
Performance of selected chamber music according to the group instrumentation. No more than 4 credit hours will apply toward a degree. 0 lecture hours; 2 lab hours per week. IAI: MUS 908

MUSC 105 Vocal Ensemble: Opera  1 cr. hr.
Open to singers and accompanists. Opera production from musical standpoint is emphasized, climax by semester production. No more than 4 credit hours will apply toward a degree. 0 lecture hours; 3 lab hours per week.

MUSC 107 Choir  1 cr. hr.
Sacred and secular choral literature from early Renaissance to the 20th Century. No audition required. No more than 4 credit hours will apply toward a degree. 0 lecture hours; 3 lab hours per week.

MUSC 109 Chamber Singers  1 cr. hr.
Vocal literature particularly suitable for small groups. Membership also open to certain selected instrumentalists. The popular music ensemble, the "Hawks," evolves from this group. No more than 4 credit hours will apply toward a degree. 0 lecture hours; 2 lab hours per week. IAI: MUS 908

MUSC 110 Fundamentals of Music  2 cr. hrs.
Musical notation, scales and intervals, sight-singing and fundamental keyboard skills. Recommended for music majors judged deficient in fundamentals, elementary teaching majors, and other interested students. 2 lecture hours; 0 lab hours per week.

MUSC 111 Theory of Music  4 cr. hrs.
Prerequisites: MUSC 110.
Structure of music, notation, scales, intervals, sight-singing, keyboard skills and composition. 3 lecture hours; 2 lab hours per week. IAI: MUS 901

MUSC 112 Theory of Music  4 cr. hrs.
Prerequisite: MUSC 111 or equivalent and concurrent enrollment in MUSC 113.
Continuation of MUSC 111. 3 lecture hours; 2 lab hours per week. IAI: MUS 902

MUSC 113 Exploring Music Literature  3 cr. hrs.
Prerequisite: Basic knowledge of music notation, permission of instructor, or successful completion of MUSC 110/111.
Study of representative vocal and instrumental works illustrative of the principal forms and styles from the Medieval period to the present. 3 lecture hours; 0 lab hours per week. IAI: MUS 905

MUSC 118 Elements of Conducting  2 cr. hrs.
Designed to develop the basic techniques for conducting music ensembles through baton use, understanding rehearsal techniques, score reading, listening projects, and observations. 1 lecture hour; 2 lab hours per week.
MUSC 121 Elementary Voice  
1-2 cr. hrs.  
Applied lessons available to all students. Students will be required to pay a lesson laboratory fee. (Voice class option available.) 2 lecture hours; 0 lab hours per week.

MUSC 123 Elementary Piano  
1-2 cr. hrs.  
Applied lessons available to all students. Students will be required to pay a lesson laboratory fee. 2 lecture hours; 0 lab hours per week. IAI: MUS 901

MUSC 125 Voice  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 127 Piano  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 129 Organ  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 131 Brass Instrument  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 133 Woodwind Instrument  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 135 String Instrument  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 137 Percussion Instrument  
1-3 cr. hrs.  
Applied major lessons are available, but require a lesson laboratory fee. 3 lecture hours; 0 lab hours per week. IAI: MUS 909

MUSC 141 Elementary Brass Instrument  
1-2 cr. hrs.  
Applied lessons available to all students. Students will be required to pay a lesson laboratory fee. 2 lecture hours; 0 lab hours per week.

MUSC 143 Elementary Woodwind Instrument  
1-2 cr. hrs.  
Applied lessons available to all students. Students will be required to pay a lesson laboratory fee. 2 lecture hours; 0 lab hours per week.

MUSC 145 Elementary String Instrument  
1-2 cr. hrs.  
Applied lessons available to all students. Students will be required to pay a lesson laboratory fee. 2 lecture hours; 0 lab hours per week.

MUSC 147 Elementary Percussion Instrument  
1-2 cr. hrs.  
Applied lessons available to all students. Students will be required to pay a lesson laboratory fee. 2 lecture hours; 0 lab hours per week.

MUSC 153 Music Appreciation  
3 cr. hrs.  
For non-music majors only. Structure of basic elements, melody, harmony, form and rhythm. Emphasis is on listening and understanding the make-up of music. Outside listening is required. 3 lecture hours; 0 lab hours per week. IAI: F1 900

MUSC 154 Music Appreciation  
3 cr. hrs.  
For non-music majors only. Study of literature of music emphasizing important composers and prevailing styles of various eras. Outside listening is required. 3 lecture hours; 0 lab hours per week. IAI: F1 900

MUSC 158 Introduction to Non-Western Music  
3 cr. hrs.  
Introduction to non-western culture through the study of music. 3 lecture hours; 0 lab hours per week. IAI: F1 903N

MUSC 207 Music for Young Children  
3 cr. hrs.  
Materials for singing, rhythmic activities, plus musical dramatizations and applications of basic classroom instruments. Provides basic musicianship needed to teach music in early elementary or pre-school. Not recommended for music concentration student unless approved by the music department lead instructor. 3 lecture hours; 0 lab hours per week.

MUSC 211 Theory of Music  
4 cr. hrs.  
Prerequisite: MUSC 112 or equivalent.  
Continuation of sight-singing, ear-training and dictation, with review of tonal harmony. Emphasis in harmony on analysis and composition in tonal harmonic styles using musical examples to the 20th Century. 3 lecture hours; 2 lab hours per week. IAI: MUS 903

MUSC 212 Theory of Music  
4 cr. hrs.  
Prerequisite: MUSC 211 or equivalent.  
Continuation of MUSC 211. Twentieth century harmonic practices. 3 lecture hours; 2 lab hours per week. IAI: MUS 904

MUSC 214 Electronic Music I  
3 cr. hrs.  
Introduction to electronic music with emphasis on digital synthesis, microcomputer applications and musical instrument digital interface standard. Includes principles of sound synthesis, digital recording and specialty designed computer software. 3 lecture hours; 0 lab hours per week.

MUSC 215 Electronic Music II  
3 cr. hrs.  
Prerequisite: MUSC 214 or permission by the instructor.  
A continuation of electronic music applications with emphasis on advanced topics in digital synthesis, microcomputer applications and musical instrument digital interface. Includes more involved methods of sound synthesis, digital recording and specially designed computer software. 3 lecture hours; 0 lab hours per week.
MUSC 221 Elementary Voice    1-2 cr. hrs.
Applied lessons available to all students. Students will be
required to pay a lesson laboratory fee. (Voice class option
available.) 2 lecture hours; 0 lab hours per week.

MUSC 223 Elementary Piano    1-2 cr. hrs.
Applied lessons available to all students. Students will be
required to pay a lesson laboratory fee. 2 lecture hours; 0 lab
hours per week. IAI: MUS 902

MUSC 225 Voice    1-3 cr. hrs.
Applied major lessons are available, but require a lesson
laboratory fee. 3 lecture hours; 0 lab hours per week. IAI:
MUS 909

MUSC 227 Piano    1-3 cr. hrs.
Applied major lessons are available, but require a lesson
laboratory fee. 3 lecture hours; 0 lab hours per week. IAI:
MUS 909

MUSC 229 Organ    1-3 cr. hrs.
Applied major lessons are available, but require a lesson
laboratory fee. 3 lecture hours; 0 lab hours per week. IAI:
MUS 909

MUSC 231 Brass Instrument    1-3 cr. hrs.
Applied major lessons are available, but require the
permission of the music advisors. 3 lecture hours; 0 lab hours
per week. IAI: MUS 909

MUSC 233 Woodwind Instrument    1-3 cr. hrs.
Applied major lessons are available, but require a lesson
laboratory fee. 3 lecture hours; 0 lab hours per week. IAI:
MUS 909

MUSC 235 String Instrument    1-3 cr. hrs.
Applied major lessons are available, but require a lesson
laboratory fee. 3 lecture hours; 0 lab hours per week. IAI:
MUS 909

MUSC 237 Percussion Instrument    1-3 cr. hrs.
Applied major lessons are available, but require a lesson
laboratory fee. 3 lecture hours; 0 lab hours per week. IAI:
MUS 909

MUSC 241 Elementary Brass Instrument    1-2 cr. hrs.
Applied lessons available to all students. Students will be
required to pay a lesson laboratory fee. 2 lecture hours; 0 lab
hours per week.

MUSC 243 Elementary Woodwind Instrument    1-2 cr. hrs.
Applied lessons available to all students. Students will be
required to pay a lesson laboratory fee. 2 lecture hours; 0 lab
hours per week.

MUSC 245 Elementary String Instrument    1-2 cr. hrs.
Applied lessons available to all students. Students will be
required to pay a lesson laboratory fee. 2 lecture hours; 0 lab
hours per week.

MUSC 247 Elementary Percussion Instrument    1-2 cr. hrs.
Applied lessons available to all students. Students will be
required to pay a lesson laboratory fee. 2 lecture hours; 0 lab
hours per week.

MUSC 256 Introduction to American Music    3 cr. hrs.
Available for the non-music major. Listening to and
studying: (1) folk, country, western, pop, jazz, rock; (2)
commercial; (3) American Music Theater; (4) experimentation,
serialism and electronic music. Outside listening is required. 3
lecture hours; 0 lab hours per week. IAI: F1 904

Nursing Assistant

NA 100 Basic Nurse Assistant Training Program    8 cr. hrs.
Provides the nurse assistant with knowledge, understanding
and skills to function as a responsible member of the health
team. Students combine theory with practical applications to
various health care situations. Additional emphasis has been
incorporated regarding the aging process, problems of the
aged, and death and dying. 7 lecture hours; 3 lab hours per
week.

NA 110 Caring for Alzheimer Disease Clients    1 cr. hr.
1 lecture hour; 0 lab hours per week.

NA 115 Homemaker    2 cr. hrs.
Prepares the students for employment as a homemaker in a
community nursing agency, elderly services bureau, or similar
agency. A homemaker’s duties include basic housekeeping
tasks, meal preparation, companionship, maintaining safety,
and minimal personal care. 2 lecture hours; 0 lab hours per
week.

Networking

NETW 120 Basic Computer Networks    3 cr. hrs.
An introductory course in networking for the technical
student. Includes basic network hardware, software,
troubleshooting, and maintenance. 2 lecture hours; 2 lab hours
per week.

NETW 125 Cisco I    3 cr. hrs.
An introductory Cisco Academy course of persons preparing
for the CCNA exam. Typical subjects involve the OSI model,
data links, network addressing, data encapsulation and
conversion, IP addresses and subnetting, and functions of the
TCP/IP network-layer protocols. 3 lecture hours; 0 lab hours
per week.

NETW 130 NT Network Administration    3 cr. hrs.
Prerequisite: NETW 120.
A hands-on study of Win 2000 networks and administration.
Design, installation, and setup of a Win 2000/NT server and
workstations. 2 lecture hours; 2 lab hours per week.

NETW 145 Cisco II    3 cr. hrs.
Prerequisite: NETW 125.
Second in a series of Cisco Academy courses for persons
preparing for the CCNA exam, or pursuing the Networking
NETW 160 Data Communications 3 cr. hrs.  
Prerequisite: NETW 120.  
A study of TCP/IP on a network. Topics focus on how to configure TCP/IP, troubleshoot and install TCP/IP. Covers the different types and methods of name resolution. 2 lecture hours; 2 lab hours per week.

NETW 165 Cisco III 3 cr. hrs.  
Prerequisite: NETW 125, NETW 145.  
Third in a series of Cisco Academy courses for persons preparing for the CCNA exam or pursuing the Networking certificate. Typical subjects involve IPXs, LAN segmentation, switching methods, Ethernet operation, Fast Ethernet, Spanning Tree Protocol and virtual LANs. 3 lecture hours; 0 lab hours per week.

NETW 185 Cisco IV 3 cr. hrs.  
Prerequisite: NETW 125, NETW 145, NETW 165.  
The final course in a series of Cisco Academy courses for persons preparing for the CCNA exam or pursuing the Networking certificate. Typical subjects involve WANs, frame relay systems, PPP operations, and ISDN networks and protocols. 3 lecture hours; 0 lab hours per week.

NETW 190 Networking Internship 1-3 cr. hrs.  
Prerequisite: NETW 120.  
Supervised field program providing work experience directly related to the student's area of concentration. On-the-job experience is required of all program graduates. 0 lecture hours; 5-15 lab hours per week.

NETW 210 Windows Workstation 3 cr. hrs.  
Prerequisite: Completion of COER 112, COER 116 and CS 100 classes or by instructor permission.  
This course provides the knowledge and skills necessary to implement, administer, and troubleshoot information systems that incorporate Microsoft Windows Workstation. 3 lecture hours; 0 lab hours per week.

NETW 215 Window Server 3 cr. hrs.  
Prerequisite: Completion of NETW 210 or by instructor permission.  
This course provides the knowledge and skills necessary to implement, administer, and troubleshoot information systems that incorporate Microsoft Windows Server. 3 lecture hours; 0 lab hours per week.

NETW 216 Windows Network Environment 3 cr. hrs.  
Prerequisite: Completion of NETW 215 or by instructor permission.  
This course provides the skills necessary to install, manage, monitor, configure, and troubleshoot DNS, DHCP, Remote Access, Network Protocols, IP Routing, and WINS in a Windows network infrastructure and the skills required to manage, monitor, troubleshoot Network Address Translation and Certificate Services that incorporate Microsoft Windows Networking. 3 lecture hours; 0 lab hours per week.

NETW 217 Windows Directory Services 3 cr. hrs.  
Prerequisite: Completion of NETW 216 or by instructor permission.  
This course provides the skills necessary to install, configure, and troubleshoot the Windows Active Directory components, DNS for Active Directory, and Active Directory security solutions. The skills required to manage, monitor, and optimize the desktop environment by using Group Policy, and troubleshoot information systems that incorporate Microsoft Windows Networking. 3 lecture hours; 0 lab hours per week.

NETW 219 Designing Directory Services 3 cr. hrs.  
Prerequisite: Completion of NETW 217 or by instructor permission.  
This course provides the skills to analyze the business requirements and to design a directory service architecture, including unified directory services such as Active Directory and Windows NT domains; connectivity between and within systems, system components, and applications; data replication such as directory replication and database replication; the skills required to analyze the business requirements for desktop management and design a solution for desktop management that meets business requirements. 3 lecture hours; 0 lab hours per week.

NETW 220 Windows Security Design 3 cr. hrs.  
Prerequisite: Completion of NETW 219 or instructor permission.  
This course provides the skills required to analyze the business requirements for security and to design a security solution that meets business requirements. Security includes controlling access to resources, auditing access to resources, authentication, encryption, and troubleshooting information systems in a Microsoft Windows environment. 3 lecture hours; 0 lab hours per week.

NETW 221 Windows Network Design 3 cr. hrs.  
Prerequisite: Completion of NETW 220 or instructor permission.  
This course provides the skills necessary to design a Microsoft network that encompasses typical network services and applications such as file and print, database messaging, proxy server or firewall, dial-in server, desktop management, and Web hosting, connecting individual offices and users at remote locations to the corporate network and connecting corporate networks to the Internet. 3 lecture hours; 0 lab hours per week.

NETW 250 Web Server Administration 3 cr. hrs.  
Prerequisite: NETW 130 or permission of instructor.  
A hands-on course in managing and maintaining an Internet Web server, with emphasis on security. Includes server configuration and customization, directory structure, content and user maintenance, server-side applications, performance monitoring and tuning, and security implementation. 2 lecture hours; 2 lab hours per week.
Nursing

NURS 100 Transition Course for LPN's 2 cr. hrs.
Prerequisite: Admission to the Associate Degree Nursing Program and hold an active license as a Licensed Practical Nurse.
This course is designed to allow the Licensed Practical Nurse to achieve advanced placement in the Associate Degree Nursing program. 2 lecture hours; 0 lab hours per week.

NURS 105 Principles of Nursing/Self Enrichment 1 cr. hr.
Prerequisite: NURS 111 or RN status.
Offered during summer session only. This elective course is designed for the student desiring additional supervised clinical experience as a team member. This course does not fulfill the requirement of elective indicated in the curriculum path. 0 lecture hours; 40 lab hours per week.

NURS 111 Principles of Nursing Care 10 cr. hrs.
Prerequisite: Admission to the Associate Degree Nursing Program.
Nursing 111 is an introductory course focusing on the study and practice of principles and skills basic to the nursing of all ages. The nursing process is introduced as the basis for nursing care. Human needs basic to all individuals will be identified, with an emphasis on the nursing process as it is used to assist persons to meet basic needs they are unable to meet themselves. Principles of assessment and nursing care as that relates to stress, pain, immobility, fractures, infection and inflammation; pre, peri, and post operative; and pharmacology are also included. 8 lecture hours; 6 lab hours per week.

NURS 120 Adult Health Nursing I 5 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and level one courses.
Nursing 120, the first medical-surgical nursing course, focuses on the care of the adult client and the pathophysiological basis of common health problems. Students perform head to toe assessments of clients to identify normal and abnormal data. The course requires students to develop critical thinking skills as they utilize the nursing process and nursing skills to plan and provide care for selected adult clients. The focus of the course is on homeostasis and those deviations from homeostasis caused by fluid electrolyte and acid-base imbalances, immune system dysfunction, cancer, and gastrointestinal disorders. 3 lecture hours; 6 lab hours per week.

NURS 121 Mental Health Nursing 5 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and level one courses.
This course is based on the belief that nurses have a responsible role in the prevention, treatment and rehabilitation of the emotionally ill. The student utilizes the nursing process and principles of therapeutic communication within the nurse-client relationship to assist persons who are encountering difficulty relating to self, others, and social milieu. Thoughts, feelings, and behaviors are examined and discussed on the "illness-wellness" continuum toward the goal of prevention and intervention. The student will come to understand herself/himself better as a person and as a future nurse and will demonstrate the capacity to relate this self-understanding through therapeutic nurse-client interactions. 3 lecture hours; 6 lab hours per week.

NURS 130 Test Strategies for Nursing 5 cr. hrs.
Prerequisite: Math 080 or ASSET numerical score greater than 43.
NURS 130 is a course for nursing students and prospective nursing students. The course focuses on math skills needed for drug equivalent calculations, drug dosage calculations, and calculations for intravenous therapy. NURS 130 is a one credit hour course. 1 lecture hours; 0 lab hours per week.

NURS 150 Pharmacology Calculations 1 cr. hr.
Prerequisite: MATH 080 or ASSET numerical score greater than 43.
NURS 150 is a course for nursing students and prospective nursing students. The course emphasizes the development of math skills needed for drug equivalent calculations, drug dosage calculations, and calculations for intravenous therapy.

NURS 151 Test Strategies for Nursing 5 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and nursing level I and II courses.
This course is designed to develop student understanding of and utilization of the nursing process and skills in the complete care of the mother during the pregnancy and postpartum periods. Emphasis is placed on the developing family unit through a physiological and psychosociological approach. 2.5 lecture hours; 4.5 lab hours per week.

NURS 214 Nursing of Children 4 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and prereq nursing level I and II courses.
This course explores the health/illness and growth and development of children from infancy through adolescence. Emphasis is placed on concepts such as communication with children and their families, parenting, play and nursing care of disorders of children. Students will have the opportunity to use critical thinking skills in application of the nursing process. 2.5 lecture hours; 4.5 lab hours per week.

NURS 215 Geriatric Nursing 2 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and nursing level I and II courses.
This course is designed to develop students' understanding of the normal aging process through a holistic approach. Emphasis will be on adopting healthy behaviors which originate from a positive philosophy of aging. 1.5 lecture hours; 1.5 lab hours per week.

NURS 221 Adult Health Nursing II 5 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and all level I, II, and III courses.
NURS 221, a fourth level medical-surgical nursing course, is designed to develop critical thinking techniques as they apply to the seriously ill client in the critical care setting. Emphasis is placed on learning experiences to enhance utilization of the nursing process with an expanded appreciation of the medical-
surgical nursing concepts. 3 lecture hours; 6 lab hours per week.

NURS 222 Adult Health Nursing III 5 cr. hrs.
Prerequisite: Satisfactory completion of all program prerequisites and all level I, II, and III courses.
NURS 222 is designed to deepen the student's understanding and utilization of the nursing process especially as it applies to groups of clients in a variety of settings. Learning experiences are designed to foster increased depth and understanding of medical-surgical nursing concepts, critical thinking techniques and independent decision making skills. The concept of delegation will be introduced in the classroom and the clinical setting. 3 lecture hours; 6 lab hours per week.

NURS 230 Nurse Seminar 2 cr. hrs.
Prerequisite: Enrollment in second year nursing classes.
The career aspects of nursing are explored on a seminar basis with the focus for discussion topics on successful functioning as a registered nurse. Content will include issues and responsibilities in nursing, current trends and implications for the registered nurse, legal implications of licensure as a registered nurse, moral and ethical responsibilities of the registered nurse; development through continuing education and participation in professional organizations, and the responsibilities of the nurse as a contributing member of a community. 2 lecture hours; 0 lab hours per week.

NURS 250 Nursing Practice Update 6 cr. hrs.
Nursing 250 provides an overview of recent developments in nursing and health care. A review of basic skills will be provided. Nursing diagnosis and physical assessment skills will be discussed. The nursing process will be utilized by the student during their clinical experience while the student is caring for patients who have a variety of health needs. 4 lecture hours; 6 lab hours per week.

NURS 260 Cardiac Care Basic 3 cr. hrs.
Prerequisite: RN or consent of instructor.
Current concepts of nursing care for clients with cardiovascular dysfunction. Recognition of appropriate therapy for dysrhythmias. 3 lecture hours; 0 lab hours per week.

NURS 261 Advanced Cardiovascular Nursing 3 cr. hrs.
Prerequisite: NURS 260 or consent of instructor.
Concepts of care for the client with complicated cardiovascular disease. Interpretation of 12 lead electrocardiograms and hemodynamic monitoring. 3 lecture hours; 0 lab hours per week.

NURS 270 Health Assessment 3 cr. hrs.
Prerequisite: RN or consent of instructor.
NURS 270 is an elective course designed for registered nurses to refine their health assessment skills. The course includes theory and application of techniques used in physical assessment. Students will learn how to take a detailed health history, as well as how to perform a complete head to toe physical examination. 3 lecture hours; 0 lab hours per week.

NURS 295 Special Topics in Nursing 3 cr. hrs.
Prerequisite: RN or consent of instructor.
Designed to meet the special needs or interests of registered and student nurses. Topics will vary, but examples of course offerings include new concepts in diabetes care, fluid and electrolyte imbalances in hospitalized patients, cultural diversity in health care, and fetal monitoring. 3 lecture hours; 0 lab hours per week.

Orientation

OR 100 Introduction to College 1-3 cr. hrs.
Topics of Introduction to College courses are designed to develop academic and personal skills that support student success in a learning-centered environment, including orientation to college, college study skills, and human potential. Students may take either OR 100 series for 1-3 credits or OR 101 for 3 credits, but not both OR 100 or OR 101. Course meets for 8 weeks once a week for 2 hours. 2 lecture hours; 0 lab hours per week.

OR 101 Becoming a Master Student 3 cr. hrs.
Facilitates student success in a learning-centered college environment by covering such topics as college resources, processes, and procedures; academic integrity; information literacy; study skills; critical thinking; time management; academic goal-setting; and educational planning. Students may take either OR 101 series for 3 credits or OR 100 for 1-3 credits, but not both OR 101 and OR 100. 3 lecture hours; 0 lab hours per week.

OR 110 Career Management for Everyone 2 cr. hrs.
The focus of this course is on career goal-setting and strategies to achieve career goals for individuals who have made a career decision and/or are employed. Topics covered include decision making, time and stress management, strategic career planning, career management techniques, career success techniques and lifelong learning. 2 lecture hours; 0 lab hours per week.

Philosophy

PHIL 101 Introduction to Philosophy 3 cr. hrs.
Prerequisite: A COMPASS score of at least 62 or successful completion of ENG 091.
Some of the basic problems of philosophy. A consideration of the great philosophical systems dating from Socrates to the present. 3 lecture hours; 0 lab hours per week. IAI: H4 900

PHIL 103 Ethics 3 cr. hrs.
Prerequisite: A COMPASS score of at least 62 or successful completion of ENG 091.
Presents an introduction to the moral problems of society with an emphasis on concepts and systems. 3 lecture hours; 0 lab hours per week. IAI: H4 904

PHIL 202 Logic 3 cr. hrs.
Introduces the student to formal and informal logic. Examines logical fallacies that are found in everyday arguments as well
as the basics of symbolic logic. 3 lecture hours; 0 lab hours per week. IAI: H4 906

PHIL 205 Studies in Philosophy 3 cr. hrs.
Prerequisite: A COMPASS score of 73 in reading or successful completion of REA 098; a COMPASS score of 62 in English or successful completion of ENG 091; one course in philosophy or permission of instructor.
Intensive study of one or more philosophical topics, philosophical traditions, or major philosophers. Philosophy of science and language, social and political philosophy, philosophy of law, rationalism, empiricism, analytic philosophy, Aristotle, Hume, Quine, metaphysics, philosophy of mind, and aesthetics are among the offerings. 3 lecture hours; 0 lab hours per week.

PHIL 206 Philosophy of Religion 3 cr. hrs.
Prerequisite: A COMPASS score of at least 83 or successful completion of REA 098; a COMPASS score of at least 62 or successful completion of ENG 091.
Discusses the intellectual problems of the religious experience. 3 lecture hours; 0 lab hours per week. IAI: H4 905

**Physical Education Classes**
(See HPE page 170)

**Physics**

PHYS 101 General Physics 4-5 cr. hrs.
Prerequisite: Concurrent enrollment in college algebra or equivalent.
For students majoring in a field other than engineering, mathematics or physics. Theory of mechanics, heat and sound. Graduation credit not permitted for both PHYS 101 and 201. 3 lecture hours; 2-4 lab hours per week. IAI: P1 900L

PHYS 102 General Physics 5 cr. hrs.
Prerequisite: PHYS 101.
Theory of magnetism, electricity, light and topics from atomic and nuclear physics. Graduation credit not permitted for both PHYS 102 and 202. 3 lecture hours; 4 lab hours per week.

PHYS 110 Introduction to Physics 4 cr. hrs.
Basic principles of many branches of physics. Credit for this course will not be counted toward graduation if the student also completes PHYS 101 or 201 equivalent. 3 lecture hours; 2 lab hours per week. IAI: P1 900L

PHYS 115 Concentrated General Physics 6 cr. hrs.
Prerequisite: Completion of Algebra II in high school.
An accelerated study of general physics, primarily intended for students wishing to meet the entrance requirements for pre-chiropractic. Will cover the same topics as PHYS 101 and 102. (No credit for both PHYS 101, 102 and 115.) 5 lecture hours; 3 lab hours per week.

PHYS 120 Energy for a Technological Society 3 cr. hrs.
For non-science majors. A non-mathematical lecture-discussion course covering both finite and alternate energy sources. 3 lecture hours; 0 lab hours per week.

PHYS 140 Practical Physics 3 cr. hrs.
For non-science majors. Presents in a conceptual format the basic principles of physics including motion, force, energy, electricity, and magnetism. 3 lecture hours; 0 lab hours per week. IAI: P1901

PHYS 200 Technical Physics 1-4 cr. hrs.
A class designed to help the student understand the physical laws that affect the machinery they deal with daily. 3 lecture hours; 2 lab hours per week.

PHYS 201 General Physics 5 cr. hrs.
Prerequisite: PHYS 200.
For students preparing to major in engineering, physics, chemistry or mathematics. Analytical study of the theory of mechanics, heat and sound. Graduation credit will not be granted for both PHYS 102 and 202. 3 lecture hours; 4 lab hours per week. IAI: P2 900L, BIO 903, EGR 911

PHYS 202 General Physics 5 cr. hrs.
Prerequisite: PHYS 201.
For students preparing to major in engineering, physics, chemistry or mathematics. Analytical study of the theory of magnetism, electricity, light, and nuclear physics. Graduation credit will not be granted for both PHYS 102 and 202. 3 lecture hours; 4 lab hours per week. IAI: BIO 904, EGR 912

PHYS 214 General Physics (Quantum) 2 cr. hrs.
Prerequisite: PHYS 201 and PHYS 202.
For student preparing to major in engineering, physics, chemistry or mathematics. Analytical study of the theory of light, photons and quantum phenomena. 1 lecture hours; 2 lab hours per week.

**Political Science**

POL 191 Introduction to Political Science 3 cr. hrs.
Introduction to the academic discipline of political science that focuses attention on the nature and scope of political science, the political process, political theories, and the interrelationships of various elements of a political system. 3 lecture hours; 0 lab hours per week. IAI: S5 903

POL 251 American National Government 3 cr. hrs.
Examines the development and operation of the U.S. national system of government; evolution of the Constitution; the organization, powers, and functions of the three branches of government; the practice and limitations of American politics; and the interrelationships with state and local governments. 3 lecture hours; 0 lab hours per week. IAI: S5 900, PLS 911

POL 252 State and Local Government 3 cr. hrs.
Examines the organization and functions of state and local governments with an evaluation of their roles in the U.S. federal system of government. THIS COURSE FULFILLS THE ILLINOIS CONSTITUTION TEST REQUIREMENT
FOR OUT-OF-STATE HIGH SCHOOL GRADUATES. 3<br>lecture hours; 0 lab hours per week. IAI: S5 9002

POLS 258 Selected Studies in Political Science  1-3 cr. hrs.<br>Prerequisite: Consent of instructor.<br>Topics studied vary according to student interest and<br>instructor availability. Typical course offerings include studies<br>on the international, national, state and local political scene,<br>and/or an internship experience. This course may be taken<br>more than once if different topics are considered. 1-3 lecture<br>hours; 0 lab hours per week.

POLS 261 Introduction to Comparative Government:<br>European  3 cr. hrs.<br>Comparative analysis of selected European governmental<br>systems emphasizing the similarities and differences between<br>the selected European governments and the government of the<br>United States. 3 lecture hours; 0 lab hours per week. IAI: S5 905

POLS 262 Introduction to Comparative Government:<br>Non-European  3 cr. hrs.<br>Comparative analysis of the governmental systems of various<br>non-western nation-states with emphasis on the similarities<br>and differences between the selected governments and the<br>government of the United States. 3 lecture hours; 0 lab hours<br>per week. IAI: S5 906N

POLS 271 International Relations  3 cr. hrs.<br>Examines the basic principles and systems that govern<br>relationships among nation-states as they attempt to cope with<br>problems of the contemporary world. 3 lecture hours; 0 lab<br>hours per week. IAI: S5 904N

Practical Nursing

PN 101 Fundamentals of Practical Nursing  6 cr. hrs.<br>Prerequisite: COMM 100, MATH 080, PN 110.<br>Within the framework of the nursing process, the course<br>teaches the concepts basic to Practical Nursing. Dimensions of<br>nursing, basic needs and special procedures are covered. 6<br>lecture hours; 0 lab hours per week.

PN 103 Geriatric Nursing  3 cr. hrs.<br>Prerequisite: PN 101, PNC 101; previous or concurrent<br>enrollment in PN 105; concurrent enrollment in PNC 103.<br>The nursing process is the framework for the study of the<br>elderly and long-term health problems. 3 lecture hours; 0 lab<br>hours per week.

PN 105 Pharmacology in Practical Nursing  1 cr. hr.<br>Prerequisite: Admission to Practical Nursing Program, MATH 080.<br>Basic mathematics as it applies to medication administration is<br>reviewed. The study of drugs and the techniques of medication<br>administration are begun. 1 lecture hour; 0 lab hours per week.

PN 106 Pharmacology  1 cr. hr.<br>Prerequisite: PN 105 or consent of instructor.<br>Drug classifications are studied through the structure of the<br>nursing process. 1 lecture hour; 0 lab hours per week.

PN 108 Care of the Older Adult  6 cr. hrs.<br>Prerequisite: PN 101, PNC 101, concurrent enrollment in PN<br>105 and PNC 108.<br>This course covers normal aging and age-related changes in<br>the older adult. It includes problems of mobility and<br>circulation. It also includes concepts of mental health nursing<br>and therapeutic communication. 6 lecture hours; 0 lab hours<br>per week.

PN 110 Basic Anatomy and Physiology  3 cr. hrs.<br>Basic concepts of human anatomy and physiology. 3 lecture<br>hours; 0 lab hours per week.

PN 124 Maternal Child Nursing  6 cr. hrs.<br>Prerequisite: PN 101, PN 103, PN 105, PN 110, PN 130, PNC 130; Concurrent enrollment in PNC 124.<br>Emphasizes the nursing care of families during child-bearing<br>and ill children. Concepts of growth and development, effects<br>of illness on families, and hospitalized children are also<br>discussed. 12 lecture hours; 0 lab hours per week.

PN 125 Medical Surgical Nursing  6 cr. hrs.<br>Prerequisite: PN 101, PN 103, PN 105, PN 110, PN 130, PNC 130; Concurrent enrollment in PNC 125.<br>Within the framework of the nursing process, theories of<br>nursing care for patients with acute medical-surgical problems<br>are discussed. 12 lecture hours; 0 lab hours per week.

PN 130 Mental Health Nursing  3 cr. hrs.<br>Prerequisite: PN 101, PNC 101; Prerequisite or concurrent<br>enrollment in PN 105, concurrent enrollment in PNC 130.<br>The nursing process is applied to patients with problems of<br>mental health, managing daily problems, and achieving<br>satisfaction from life’s developmental stages. 3 lecture hours;<br>0 lab hours per week.

PN 140 Licensure Review  1-5 cr. hrs.<br>Assists students who have graduated from a practical nursing<br>program to prepare for NCLEX-PN. Review of principles of<br>all areas of the body of nursing knowledge applicable to<br>practical nursing will be presented. Lecture and discussion<br>will be complemented by practice testing. This course does<br>not guarantee satisfactory results on NCLEX-PN. 1-5 lecture<br>hours; 0 lab hours per week.

PN 160 LPN Refresher  6 cr. hrs.<br>Provides a basic review and updating of skills and knowledge<br>for practical nurses preparing to re-enter nursing practice.<br>Satisfactory completion of this course will meet one of the<br>requirements for restoration of license after 5 or more years of<br>inactive status or 5 or more years of lapse of licensure. 3<br>lecture hours; 7 lab hours per week.
PN 180 Intravenous Therapy  1-3 cr. hrs.
Prerequisite: Current nursing license.
A basic study of the administration and regulation of intravenous infusions. Common intravenous solutions will be discussed. The technique of intravenous therapy will be taught and return demonstrations will be required if the three credit hour course is chosen with clinical laboratory practice. Nursing care of patient with IV therapy will be discussed. 2 lecture hours; 2 lab hours per week.

Practical Nursing Clinical

PNC 101 Fundamentals of Practical Nursing Clinical  2 cr. hrs.
Prerequisite: COMM 100; MATH 080 or ASSET score of 44 or above; PN 110; concurrent enrollment in PN 101, PN 105.
With guidance, the nursing process is used in the care of patients with simple health problems. Eight week course. 0 lecture hours; 6 lab hours per week.

PNC 103 Geriatric Nursing Clinical  1 cr. hr.
Prerequisite: PN 101, PNC 101; previous or concurrent enrollment in PN 105; concurrent enrollment in PN 103.
Within the framework of the nursing process, the course teaches the concepts of care and understanding of the elderly and others with long term health problems. Four week course. 0 lecture hours; 3 lab hours per week.

PNC 124 Maternal Child Nursing Clinical  2 cr. hrs.
Prerequisite: PN 101, PNC 101, PN 103, PNC 103, PN 105, PN 110, PN 130, PNC 130; concurrent enrollment in PN 124.
The nursing process is applied to families in child-bearing, well children, and ill children. Eight week course. 0 lecture hours; 6 lab hours per week.

PNC 125 Medical/Surgical Nursing Clinical  2 cr. hrs.
Prerequisite: PN 101, PNC 101, PN 103, PNC 103, PN 105, PN 110, PN 130, PNC 130; concurrent enrollment in PN 125.
The nursing process is applied to patients with acute medical-surgical conditions. Eight week course. 0 lecture hours; 6 lab hours per week.

PNC 130 Mental Health Nursing Clinical  1 cr. hr.
Prerequisite: PN 101, PNC 101; previous or concurrent enrollment in PN 105; concurrent enrollment in PN 130.
Within the framework of the nursing process, the course teaches the concepts of mental health nursing. Principles of mental health will be utilized in a health care facility, and services available through community agencies will be investigated. Four week course. 0 lecture hours; 3 lab hours per week.

Physical Science

PS 101 Introduction to Physical Science  4 cr. hrs.
A largely non-mathematical approach to physical science for elementary education and other non-science majors. The course deals with basic concepts of geology, geography, astronomy, meteorology, chemistry and physics. A study of human attempts to understand the physical universe. 3 lecture hours; 2 lab hours per week. IAI: P9 900L

PS 205 Issues in Science, Technology and Society  3 cr. hrs.
A course which considers the impact of science, technology and society. It will help the student understand the relevance of science and technology as they relate to ethical, political, economic and historical decisions. Discussion topics will be determined by student interest and the current events taking place in our changing world. 3 lecture hours; 0 lab hours per week. IAI: P9900

Psychology

PSYC 101 Introductory Psychology  3 cr. hrs.
A survey of the field of general psychology without specific emphasis on any particular theory or model of human or animal behavior. Fundamental principles, methods, theories and issues in the field are discussed. Content areas may include learning, thinking, neuroscience, methodology, memory, perception, personality, intelligence, emotion, adjustment, and abnormality among others. 3 lecture hours; 0 lab hours per week. IAI: S6 900, SPE 912

PSYC 105 Career Exploration and Planning  1-2 cr. hrs.
Students will increase self-awareness by examining interests, values and skills. Interest and personality inventories are administered. Students are assisted in evaluating this information to aid in directing their research of potential careers and to facilitate career and educational planning. This course may be taken once for credit. 1-2 lecture hours; 0 lab hours per week.

PSYC 110 Human Relations  3 cr. hrs.
Focuses on interpersonal relationships and the skills necessary to build and maintain them (e.g., assertion, active listening, conflict resolution). No psychology background necessary. 3 lecture hours; 0 lab hours per week.

PSYC 199 Psychology of Women  3 cr. hrs.
Examines the psychology of women from a feminist perspective, including such issues as violence against women, health psychology, work-family balance, development across the life-course, and sexist discrimination. 3 lecture hours; 0 lab hours per week.

PSYC 200 Human Growth and Development  3 cr. hrs.
Prerequisite: PSYC 101.
Explores the neurobiological, physical, cognitive, social, and emotional development of humans from conception through adulthood. Examines theories and principles of human development in light of contemporary research, emphasizing normal developmental stages and patterns of adjustment to differing life-time demands. 3 lecture hours; 0 lab hours per week. IAI: S6 902, SED 903, EED 903, PSY 904, SPE 913

PSYC 201 Industrial Psychology  3 cr. hrs.
Prerequisite: PSYC 101.
This course explores current industrial/organizational psychology theory and research as related to such areas as...
research methods; personnel selection, placement, and training; job analysis and performance appraisal; job satisfaction and motivation; leadership; organizational decision making; and organizational development. 3 lecture hours; 0 lab hours per week.

**PSYC 210 Personality Theories** 3 cr. hrs.  
Prerequisite: PSYC 101 (QC); consent of instructor (EC).  
Detailed analysis of major personality theorists in psychology from Freud to the present, emphasizing the examination of common threads in the evolution of personality theory as well as decided differences between and among individual theorists. The relationship between empirical and theoretical investigation and the reading of personality research are stressed. Emphasis is also placed on non-Western aspects of specified traditional Western theories (e.g., Jung, Fromm, Erikson, James) and Hinduism, Islam, and Buddhism are taught as primary non-Western personality theories. 3 lecture hours; 0 lab hours per week. IAI: PSY 907

**PSYC 212 Experimental Psychology** 3 cr. hrs.  
Prerequisite: PSYC 101.  
This course explores the nature of scientific inquiry from an empirical perspective, employing traditional use of statistical analysis to data. The notion of inquiry, as systematic fact-finding, is approached from the Western scientific perspective, but students are taught that this approach is merely one way of discovering scientific truth; non-Western traditions are also examined. Emphasis placed on learning and using tools involved in conducting scientific research and in leaning to read research with comprehension. Extensive use of descriptive and inferential statistics for analyzing a variety of formal research hypotheses is a significant aspect of this course. 3 lecture hours; 0 lab hours per week.

**PSYC 219 Understanding Human Sexuality** 3 cr. hrs.  
Provides an integration of psychological, social, and biological components of human sexuality. Research methods, physiology, relationships, intimacy, communication, sexual techniques, sexual behaviors, conception, pregnancy, sexual dysfunctions and sexually transmitted diseases, and sexual variances are investigated. Diversity of race, ethnicity, gender, and orientation are stressed throughout the course to facilitate a non-judgmental approach. The student will be prepared by this course for understanding most general sexual issues as they relate to their own lives and in populations they will encounter professionally. 3 lecture hours; 0 lab hours per week. IAI: SW 912

**PSYC 220 Applied Psychology** 3 cr. hrs.  
Applies psychological theories, principles, and research to the context of everyday life, including such features as adjustment, motivation, communication, stress and coping, social cognition, self-image, interpersonal relationships, attitudes, and maximizing human potential. 3 lecture hours; 0 lab hours per week.

**PSYC 230 Social Psychology** 3 cr. hrs.  
Prerequisite: PSYC 101.  
A systematic introduction to theory and research on the ways social factors influence individual and group behavior. Examines attitudes, social perception, the establishment of norms, conformity, leadership, group dynamics, and research methods, emphasizing their effects on the individual. 3 lecture hours; 0 lab hours per week. IAI: S8 900, PSY 900

**PSYC 250 Abnormal Psychology** 3 cr. hrs.  
Prerequisite: PSYC 101.  
An introduction to abnormal behavior, psychodiagnostic methods, theories of causation, specific pathologies, and modes of treatment. 3 lecture hours; 0 lab hours per week. IAI: PSY 905

**PSYC 260 Adolescent Psychology** 3 cr. hrs.  
Prerequisite: PSYC 101 (QC); consent of instructor (EC).  
Integrates theory and empirical research as related to adolescents' biological, cognitive, and social development; and such related issues as school experience, career choice, the college experience, self-identity, adjustment, and the development of intimacy and sexuality. 3 lecture hours; 0 lab hours per week. IAI: PSY 902

**PSYC 262 Child Psychology** 3 cr. hrs.  
Prerequisite: PSYC 101.  
Introduces theory and research on biological, physical, social, and cognitive development of the human child from conception to adolescence. Topics may include genetic factors, prenatal development, sensory and perceptual changes, motor system development, language acquisition, social learning, gender differences, atypical development, and such influences as the family, school, and sociocultural context. 3 lecture hours; 0 lab hours per week. IAI: S6 903, PSY 901, ECE 912

**PSYC 264 Social Psychology of Aging** 3 cr. hrs.  
Prerequisites: PSYC 101.  
Process and consequences of aging; interplay between social and psychological forces and the aging population; psychological dimensions of aging. 3 lecture hours; 0 lab hours per week. IAI: S6 905

**PSYC 266 Adult Development and Aging** 3 cr. hrs.  
Prerequisite: PSYC 101  
Examines the research concepts, principles, and theories concerning the cognitive, physical, social, emotional, and personality development from early adulthood to old age, including such topics as career choice and development, mate selection and marriage, conventional and nonconventional families, theories of adult personality development, mid-and late-life transitions, aging and dying, death and bereavement. 3 lecture hours; 0 lab hours per week. IAI: PSY 903

**PSYC 290 Educational Psychology** 3 cr. hrs.  
Prerequisite: PSYC 101 (QC); consent of instructor (EC).  
The application of research-based psychological principles to education and teaching-learning processes. Special emphasis on understanding growth and development, the learning process, motivation, intelligence, evaluation, measurement,
creativity and the impact of culture on learning styles. 3 lecture hours; 0 lab hours per week. IAI: SED 902

**PSYC 295 Special Topics in Psychology** 1-3 cr. hrs.
Topics vary according to student interest and instructor availability. Examples of course offerings include: gerontology, psychology in literature, an internship experience, psychology of religion, and dream working. Students may take up to six credit hours if the topic varies. 1-3 lecture hours; 0 lab hours per week.

**Physical Therapist Assistant**

**PTA 100 Introduction to PTA** 3 cr. hrs.
Study of historical background, professional ethics, and legal aspects of physical therapy practice. Overview of quality assurance and reimbursement issues, role of the PT and PTA in various settings and introduction to patient care. 2 lecture hour; 3 lab hours per week.

**PTA 113 Physical Agents I** 2 cr. hrs.
*Prerequisite:
Study of indications, contraindications and application of cold and heat such as infrared, ultraviolet, paraffin, hot/cold packs, ice, whirlpool and contrast baths. 1 lecture hour; 1.5 lab hours per week.

**PTA 201 Kinesiology** 4 cr. hrs.
*Prerequisites: PTA 100, PTA 113, PTA 202, BIOL 145.
Study of analysis of force systems and mechanics of muscle action, and production of movement. 3 lecture hours; 2 lab hours per week.

**PTA 202 Physical Rehabilitative Techniques** 3 cr. hrs.
Study of basic rehabilitative techniques, such as goniometric measuring, patient positioning, range of motion exercise, transfer techniques, gait training, and chest physical therapy. 1.5 lecture hours; 3 lab hours per week.

**PTA 203 Pathology** 2 cr. hrs.
*Prerequisites: PTA 100, PTA 113, PTA 202, BIOL 145.
Study of the fundamental basis of disease. Emphasis on conditions treated through physical therapy procedures. 2 lecture hours; 0 lab hours per week.

**PTA 204 Practicum I** 3 cr. hrs.
*Prerequisites: PTA 100, PTA 113, PTA 202, BIOL 145.
Practice of routine physical therapy assisting procedures with selected patients in a closely supervised clinical setting. 0 lecture hour; 6 lab hours per week.

**PTA 205 Physical Therapy Science** 2 cr. hrs.
*Prerequisites: PTA 201.
Discussion and study of medical conditions commonly referred for physical therapy such as cerebral palsy, multiple sclerosis, cerebral vascular accident, peripheral nerve injury, arthritis, and others. 2 lecture hours; 0 lab hours per week.

**PTA 207 Massage** 1 cr. hr.
*Prerequisite: PTA 100, PTA 113, PTA 202, BIOL 145.
Study of scientific principles, indications, contraindications, and application of a variety of massage techniques. 1 lecture hour; 0.5 lab hour per week.

**PTA 208 Therapeutic Exercise I** 3 cr. hrs.
*Prerequisites: PTA 201.
Study of fundamentals of exercise, theory and practice of basic exercises for individual muscles or muscle groups, breathing and postural exercises, manual muscle testing, and gait analysis. 2 lecture hours; 3 lab hours per week.

**PTA 209 Therapeutic Exercise II** 4 cr. hrs.
*Prerequisites: PTA 205, PTA 208, PTA 214.
Study of scientific principles of therapeutic exercise, including use of equipment, orthopedic and neurological exercise techniques. 2 lecture hours; 4 lab hours per week.

**PTA 213 Physical Agents II** 3 cr. hrs.
*Prerequisites: PTA 208.
Study of physiological effects, indications, contraindications, and application of deep heat such as ultrasound and diathermy, and other modalities such as electrical muscle stimulation, T.E.N.S. and traction. 2 lecture hours; 3 lab hours per week.

**PTA 214 Practicum II** 3 cr. hrs.
*Prerequisites: PTA 201.
Practice of previously learned skills in a clinical setting, supervised by a Physical Therapist. 1 lecture hour; 6 lab hours per week.

**PTA 280 Clinical Internship I** 4 cr. hrs.
*Prerequisites: PTA 209, PTA 213.
A clinical learning experience in selected health care facilities. 0 lecture hours; 48 lab hours per week.

**PTA 281 Clinical Internship II** 4 cr. hrs.
*Prerequisite: PTA 280.
A final learning experience in selected health care facilities with hands on application of treatment techniques and theories and progression of patient care skills learned in Clinical Internship I. 0 lecture hours; 48 lab hours per week.

**PTA 290 Clinical Seminar** 2 cr. hrs.
*Prerequisites: PTA 208.
Discussion of education and clinical experiences. 2 lecture hours; 0 lab hours per week.

**Reading**

**REA 093 Developmental Reading I** 3 cr. hrs.
Improvement of basic developmental reading skills emphasizing vocabulary and comprehension skills. Students with scores of 31-64 on COMPASS reading test who are working toward an AA/AS degree are required to take this course. Certain career programs may also require this course. 3 lecture hours; 0 lab hours per week.

**REA 098 Developmental Reading II** 3 cr. hrs.
Improvement of basic reading skills to prepare students for college level reading. The course emphasizes vocabulary,
critical reading, and comprehension, especially in social science and natural science reading. Students with scores of 65-82 on COMPASS reading test who are working toward an AA/AS degree students are required to take this course. Certain career programs may also require this course. See the program description in the catalog. 3 lecture hours; 0 lab hours per week.

Security

SECR 160 Introduction to Private Security 3 cr. hrs.
To provide the student with an overview of the history and development of the private security industry, the security function in business and industry, retail security, hospital security, cargo security, computer security, and general security services. 3 lecture hours; 0 lab hours per week.

SECR 165 Physical Security Concepts I 1-3 cr. hrs.
Study of assets protection and physical security in the private sector. Includes in-depth studies of specific security functions with emphasis on crime prevention and risk recognition and management. 1-3 lecture hours; 0 lab hours per week.

SECR 166 Physical Security Concepts II 3 cr. hrs.
Prerequisite: SECR 165 recommended.
Study of assets protection and physical security in the private and public sectors. Emphasis placed on planning to meet anticipated security threats in the day-to-day operation of a security organization. 3 lecture hours; 0 lab hours per week.

SECR 270 Management of Loss Prevention 3 cr. hrs.
To provide the student with an overview of the problem of internal theft, why employees steal, embezzlement and executive dishonesty, investigating internal theft, deterring internal theft, and shoplifting prevention, investigation, and control. 3 lecture hours; 0 lab hours per week.

SECR 272 Directed Studies in Security 3 cr. hrs.
Prerequisite: Approval of instructor.
Provides a supervised work experience in a licensed or proprietary security organization in a metropolitan area. 1 lecture hour; 10 lab hours per week.

SECR 275 Internship in Securities 3 cr. hrs.
An overview of management techniques and practices relevant to modern security and loss prevention practices. 3 lecture hours; 0 lab hours per week.

Social and Behavioral Science

SBS 100 Social & Behavioral Science 3 cr. hrs.
This introductory interdisciplinary course is designed to give the students a foundation and overview of the disciplines of psychology and sociology. However, this course does not substitute for Psychology 101 or Sociology 101. 3 lecture hours; 0 lab hours per week.

Sociology

SOC 101 Principles of Sociology 3 cr. hrs.
Scientific examination of human society and social behavior. Concentrates on human behavior and assumes that it is largely shaped by the groups to which people belong and by the social interaction taking place in these groups. Acquire a basic sociological understanding and sensitivity to the issues of race, class, gender, and ethnicity. 3 lecture hours; 0 lab hours per week. IAI: S7 900

SOC 200 Contemporary Social Problems 3 cr. hrs.
Analysis of some vital social problems by applying sociological concepts and theories to the study of such topics as deviance, crime, minority relations, poverty and others. Acquire a basic sociological understanding and sensitivity to the issues of race, class, gender, and ethnicity. 3 lecture hours; 0 lab hours per week. IAI: S7 901

SOC 210 Contemporary Urban Institutions 3 cr. hrs.
Prerequisite: SOC 101 or consent of instructor.
A survey of the structure and functions of urban communities. 3 lecture hours; 0 lab hours per week.

SOC 222 Introduction to Social Work 3 cr. hrs.
Prerequisite: SOC 101 or consent of instructor.
Introductory survey of social work in the context of the social welfare services and policies, including their historical origins, conceptual framework, and contemporary foci. Overviews principal social work values, codes of ethics, practice methods, research considerations, and policy issues. Emphasizes the unique experiences of diverse and at-risk population groups facing various social challenges. 3 lecture hours; 0 lab hours per week.

SOC 230 Sociology of Sex and Gender 3 cr. hrs.
Prerequisite: SOC 101 or consent of instructor.
Provides a framework for understanding the sources and consequences of gender and sex role in the economy, family, education, and other social institutions. 3 lecture hours; 0 lab hours per week. IAI: S7 904D

SOC 250 Minority Relations 3 cr. hrs.
Examines racial, ethnic, and gender minorities. A comprehensive overview of major sociological theories regarding interaction between dominant and minority groups and an investigation of the experiences of minorities in the United States. 3 lecture hours; 0 lab hours per week. IAI: S7 903D

SOC 251 Marriage and the Family 3 cr. hrs.
Survey of the contemporary family in historical and cross-cultural perspectives. Includes trends in mate selection, marriage, child-rearing, employment, gender roles, and communication within the family. 3 lecture hours; 0 lab hours per week. IAI: S7 902

SOC 255 Social Statistics 3 cr. hrs.
Prerequisite: SOC 101 or PSYC 101; Math 091.
Application and interpretation of basic statistics used in the behavioral sciences including descriptive statistics and an introduction to inferential statistics. 3 lecture hours; 0 lab hours per week.

**SOC 261 Deviant Behavior** 3 cr. hrs.
The sociological study of the origins, causes, control and definitions of deviance and deviant behavior. Includes criminality, mental disorders, drug use, and sexuality. 3 lecture hours; 0 lab hours per week.

**SOC 264 Social Psychology of Aging** 3 cr. hrs.
*Prerequisites: PSYC 101 and SOC 101 or consent of instructor.*
Process and consequences of aging; interplay between social and psychological forces and the aging population; psychological dimensions of aging. 3 lecture hours; 0 lab hours per week.

**SOC 270 Sociology of Health** 3 cr. hrs.
*Prerequisite: SOC 101.*
Health care systems and issues in cross-cultural context; dimensions of wellness and illness including mental health, health providers, organizations, and institutions and their relations. 3 lecture hours; 0 lab hours per week.

**SOC 290 Studies in Sociology** 1-3 cr. hrs.
*Prerequisite: SOC 101 or consent of instructor.*
Focuses on selected topics from a sociological perspective, including such topics as child maltreatment, addictions, juvenile justice, family violence, death and dying, and field studies. 1-3 lecture hours; 0 lab hours per week.

**Spanish**

Students who have not taken Spanish at BHC must take a brief placement test.

**SPAN 101 Elementary Spanish I** 4 cr. hrs.
*Prerequisite: Placement test score for this level.*
First course of a two semester sequence in elementary Spanish with emphasis upon speaking, listening comprehension, reading, writing and culture. 4 lecture hours; 0 lab hours per week.

**SPAN 102 Elementary Spanish II** 4 cr. hrs.
*Prerequisite: Placement test score for this level or college Spanish 101 with a "C" or better.*
Second course of a two semester sequence in elementary Spanish with emphasis upon speaking, listening comprehension, reading, writing and culture. 4 lecture hours; 0 lab hours per week.

**SPAN 103 Spanish for Near-Native Speakers** 3 cr. hrs.
Review formal structure and sound system of Spanish for near-native speakers with emphasis on accurate, fluent, and effective oral and written expression. 3 lecture hours; 0 lab hours per week.

**SPAN 130 Career Spanish** .5-3 cr. hrs.
Development of oral communication skills for selected occupations. Emphasizes question-answer patterns, key vocabulary, and high frequency expressions. .5-3 lecture hours; 0 lab hours per week.

**SPAN 201 Intermediate Spanish I** 4 cr. hrs.
*Prerequisite: Placement score for this level or college Spanish 102 with a "C" or better.*
First course of a two semester sequence in intermediate Spanish with emphasis upon conversation, literary readings and composition and the culture and civilization of the Hispanic world. 4 lecture hours; 0 lab hours per week.

**SPAN 202 Intermediate Spanish II** 4 cr. hrs.
*Prerequisite: Placement score for this level or college Spanish 201 with a "C" or above or equivalent.*
Second course of a two semester sequence in intermediate Spanish with emphasis upon conversation, literary readings and composition and the culture and civilization of the Hispanic world. 4 lecture hours; 0 lab hours per week. IAI: H1 900

**SPAN 253 Advanced Spanish I** 3 cr. hrs.
*Prerequisite: Placement score for this level or college Spanish 202 with a "C" or above or equivalent.*
First course of a two semester sequence in advanced Spanish with emphasis upon conversation and composition with further study of literary pieces by Spanish-speaking authors. 3 lecture hours; 0 lab hours per week. IAI: H1 900

**SPAN 254 Advanced Spanish II** 3 cr. hrs.
*Prerequisite: Placement score for this level, college Spanish 253 with a "C" or better, or four years of high school Spanish with a "C" or above, or equivalent.*
Second course of a two semester sequence in advanced Spanish with emphasis upon conversation and composition with further study of literary pieces by Spanish-speaking authors. 3 lecture hours; 0 lab hours per week. IAI: H1 900

**Speech**

**SPEC 101 Principles of Speech Communication** 3 cr. hrs.
The application of oral communication principles to the preparation and presentation of speeches. 3 lecture hours; 0 lab hours per week. IAI: C2 900

**SPEC 111 Business and Professional Communication** 3 cr. hrs.
*Prerequisite: SPEC 101 or permission of instructor.*
Examines factors which influence communication in the organization, including management styles, nonverbal communication, personalities, leadership, formal/informal channels and interviewing. 3 lecture hours; 0 lab hours per week.

**SPEC 114 Interpersonal Communication** 3 cr. hrs.
Examines skills needed in informal face-to-face communication; emphasizes self-concept and interaction with others. 3 lecture hours; 0 lab hours per week. IAI: SPC 921
SPEC 120 Performance of Literature 3 cr. hrs.
The study and performance of literature, such as essays, letters, novels, poetry, and short stories, with an emphasis on using voice and movement to interpret the works and communicate that interpretation to an audience. 3 lecture hours; 0 lab hours per week.

SPEC 150 Introduction to Public Relations 3 cr. hrs.
An introduction to the nature of public relations and an examination of current philosophies and practices in the profession. Incorporates both theoretical and practical approaches to understanding of public relations. 3 lecture hours; 0 lab hours per week.

SPEC 175 Intercultural Communication 3 cr. hrs.
Promotes awareness, knowledge, and skills for communicating among persons of differing cultural backgrounds. Focuses on cultures with whom U.S. Americans interact. 3 lecture hours; 0 lab hours per week. IAI: SPC 916

SPEC 200 Communication Experiences 1 3 cr. hrs.
Prerequisite: SPEC 101 or consent of instructor.
Provides experience in identifying and improving communication skills. Specific content tailored to student need and interest. Repeatable up to a maximum of 3 hours. 1-3 lecture hours; 0 lab hours per week.

SPEC 210 Public Speaking 3 cr. hrs.
Prerequisite: SPEC 101.
Examines the use of oral persuasion in our society. The theories of persuasion are studied, political speeches analyzed and persuasive skills developed through oral presentations. 3 lecture hours; 0 lab hours per week.

SPEC 290 Leadership Development 3 cr. hrs.
This course will provide a basic understanding of leadership. Students will develop a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership, and an awareness of their personal styles of leadership. 3 lecture hours; 0 lab hours per week.

Theatre

THEA 101 Theatre Practicum 1 cr. hr.
Practical experience in theatre techniques. Maximum of four hours may be earned. 0 lecture hours; 8 lab hours per week. IAI: TA918

THEA 102 Theatre Practicum 1 cr. hr.
Practical experience in theatre techniques. Maximum of four hours may be earned. 0 lecture hours; 8 lab hours per week. IAI: TA918

THEA 111 Introduction to Theatre Arts 3 cr. hrs.
Theatre as a major fine art form through contribution of playwright, actor, director, designer, and technician. 3 lecture hours; 0 lab hours per week. IAI: F1 907

THEA 112 Play Production 3 cr. hrs.
Cross currents of modern thought of 20th century dramaturgy and theatre practice. Reading, analysis, and viewing of selected plays when feasible. 3 lecture hours; 0 lab hours per week. IAI: TA917

THEA 201 Directing 3 cr. hrs.
Prerequisite: Permission of instructor.
Study and practical application of principles, procedures and problems of staging with emphasis on the role and responsibilities of the director. 3 lecture hours; 0 lab hours per week.

THEA 202 Stagecraft 3 cr. hrs.
Concentrates on planning and execution of technical aspects of theatre and television production. 3 lecture hours; 0 lab hours per week. IAI: TA 911

THEA 203 Theatre Practicum 1 cr. hr.
Practical experience in theatre techniques. Maximum of four hours may be earned. 0 lecture hours; 8 lab hours per week. IAI: TA918

THEA 204 Theatre Practicum 1 cr. hr.
Practical experience in theatre techniques. Maximum of four hours may be earned. 0 lecture hours; 8 lab hours per week. IAI: TA918

THEA 205 Stage Makeup 2 cr. hrs.
Introduces students to the principles, techniques, and materials of stage makeup and practical experience in their application. 1 lecture hour; 2 lab hours per week. IAI: 912

THEA 210 Fundamentals of Acting 3 cr. hrs.
Concentrates on exploration and development of an individual’s interpretive and expressive skills. 2 lecture hours; 2 lab hours per week. IAI: TA 914

THEA 211 Intermediate Acting 3 cr. hrs.
Prerequisite: THEA 210.
Development of the basics introduced in the Fundamentals of Acting (THEA 210), emphasizing an intensive approach to acting exercises, improvisation, and scene study; an introduction to style. 3 lecture hours; 0 lab hours per week.

THEA 212 Introduction to Costumes 3 cr. hrs.
Prerequisite: Basic familiarity with standard sewing machine, arts and crafts, are helpful.
Introduces students to safety procedures, basic design methods, and basic techniques of costume and accessory construction, tool use, fitting and draping, and costume shop organization through projects in cutting, stitching, and finishing costumes for production. 2 lecture hours; 2 lab hours per week. IAI: TA 913

Technical Math

TMAT 101 Technical Math I 1 3 cr. hrs.
To understand theory and develop skills in arithmetic, percents, powers, roots, ratios, proportions, measurements,
algebra, geometry, trigonometry and graphs as applied to the field of mechanics. 3 lecture hours; 0 lab hours per week.

**Television**

**TV 112 Computer Literacy for TV** 2 cr. hrs.  
Introduction to the preparation of graphic material for television using computers. 2 lecture hours; 0 lab hours per week.

**TV 160 Introduction to Radio Broadcasting** 4 cr. hrs.  
Techniques of radio announcing, including writing and interpretation of radio copy (news, public service and commercials). Covers Federal regulations governing responsibility of broadcasters. 3 lecture hours; 2 lab hours per week. IAI: MC 915

**TV 200 TV Work Experience** 2 cr. hrs.  
For broadcast majors only. Practical work experience in broadcasting. Primarily designed for Career Program students. 0 lecture hours; 20 lab hours per week.

**TV 212 History and Appreciation of the Motion Picture** 3 cr. hrs.  
Traces origin and development of the motion picture through lectures, reading and viewing of pertinent films. 3 lecture hours; 0 lab hours per week. IAI: F2 905

**TV 215 Broadcast Writing** 3 cr. hrs.  
Basic script writing for the broadcast media, with emphasis on program continuity, commercials, public service announcements, and promotional campaigns. Typing proficiency needed. 3 lecture hours; 0 lab hours per week. IAI: MC 917

**TV 220 Introduction to Television** 4 cr. hrs.  
Prerequisite: Concurrent enrollment in TV 112.  
Principles and practices of TV studio operation and scripting for TV. Student operation of equipment and production of short projects. 3 lecture hours; 2 lab hours per week. IAI: MC 916

**TV 221 Television Production and Direction** 4 cr. hrs.  
Prerequisite: TV 220 or consent of instructor.  
Emphasis on student originality in creation of programs and commercials within laboratory setting. 3 lecture hours; 2 lab hours per week.

**TV 260 Broadcast Perspectives** 3 cr. hrs.  
Traces origin and forces which have shaped the broadcasting industry. Study and investigation of FCC regulations, advertising ratings, cable, programming, and history, supplemented by guest appearances from local stations. 3 lecture hours; 0 lab hours per week. IAI: MC 914

**Welding**

**WLD 101 Introduction to Arc Welding** .5 cr. hrs.  
The study of arc welding processes that are most widely used in lead industry. Students will learn about shop equipment, safety, and housekeeping. Electrode selection and identification will be studied. These types of weld joints are thoroughly discussed. 0 lecture hours; 1 lab hour per week.

**WLD 102 Basic Arc Welding in the Flat Position** .5 cr. hrs.  
Prerequisite: WLD 101.  
This course is a continuation of WLD 101. Using the flat position, the student will weld three beads, tee-joints, lap joints, butt joints, and outside corner to specifications given by the instructor. Gloves are to be purchased by the student. Shop safety will be stressed during course. 0 lecture hours; 1 lab hour per week.

**WLD 103 Arc Welding in the Flat and Horizontal Positions** .5-2 cr. hrs.  
Prerequisite: WLD 102.  
This course is a continuation of WLD 102, using the flat position and horizontal welding position. Student will weld using various electrode grades. A v-groove test must be passed. Shop safety will be employed during the course. 0 lecture hours; 4 lab hours per week.

**WLD 105 Oxyacetylene Welding and Cutting** .5-3 cr. hrs.  
An introduction to gas welding, bronze welding, and cutting with emphasis on obtaining manipulative skills in each area. Instruction is given in related technical terms. 1 lecture hour; 4 lab hours per week.

**WLD 109 Blueprint Reading for Welders** 2 cr. hrs.  
Prerequisite: Shop math equivalency/high school drafting.  
Reading welding prints using mathematics, interpreting welding symbols, gauges and inspection techniques. 1 lecture hour; 2 lab hours per week.

**WLD 111 Welding Processes** 3 cr. hrs.  
An introduction to the history and roles played by welding. All major welding processes and their related skills are explained. Types of power supplies are also studied with emphasis on the proper selection for each job. 3 lecture hours; 0 lab hours per week.

**WLD 117 Arc Welding in the Vertical Position** .5-2 cr. hrs.  
Prerequisite: WLD 103.  
This course is a continuation of WLD 103, using the vertical position. Students will weld using various electrode grades. A V-groove test must be passed. Shop safety will be emphasized in the course. 0 lecture hours; 4 lab hours per week.

**WLD 118 Arc Welding in the Overhead Position** .5-1 cr. hr.  
Prerequisite: WLD 117.  
This course is a continuation of WLD 117 using the overhead welding position. Students will weld using various electrode grades on various materials. A v-groove test must be passed. Shop safety will be emphasized in the course. 0 lecture hours; 2 lab hours per week.
WLD 120 Introduction to MIG Welding  .5-1 cr. hr.
Course designed to cover production methods and techniques in gas metal arc welding (MIG). This process will include spray transfer, short arc transfer and cored wires. This will be done by studying machine set-up, handling the gun, weld size, gun angle, wire feed and gas quantities. Safety will be emphasized. 0 lecture hours; 2 lab hours per week.

WLD 121 MIG Welding with Spray Arc Process  .5-3 cr. hrs.
Prerequisite: WLD 120.
Course provides theory and welding experience in the flat, horizontal and vertical positions using various joint designs. Various fillet sizes and material thickness will be the welding lab experiences. Shop safety will be emphasized. 0 lecture hours; 4 lab hours per week.

WLD 122 MIG Welding with Globular Transfer Process and Short Arc  .5-2 cr. hrs.
Prerequisite: WLD 121.
Student will learn when welding with consumable wire electrodes that transfer of metal is achieved by three methods. The type of metal transfer that occurs will depend on electrode wire size, shielding gas, arc voltage, and welding current. Various lab exercises employ different processes with different joint types and various welding positions. Shop safety will be emphasized. 0 lecture hours; 4 lab hours per week.

WLD 125 TIG Welding  .5-3 cr. hrs.
The course will introduce gas tungsten-arc welding (GTAW or TIG). Students will learn how to properly set up machine and weld in various positions with ferrous and non-ferrous material. The student will learn how to regulate oxygen and acetylene for the oxyacetylene welding process. Student will weld various material thickness in different positions and pass a weld joint test. Shop safety will be emphasized. 1 lecture hour; 4 lab hours per week.
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Director Educational Services, East Campus
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Engineering and Physical Sciences

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M.S., University of Iowa  
Mathematics

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Assistant Professor  
M.A., Marycrest College  
Reading

William Anderson (1993)  
Professor  
M.A., South Dakota State  
English

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M.A., Central Michigan University  
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Joan Eastlund (1982)  
Professor  
M.A., Iowa State University  
History/POLITICAL SCIENCE
<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>Title</th>
<th>Degree/Institution</th>
<th>Field</th>
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<tbody>
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<td>(1980)</td>
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<td>Enjle Elukhanyeni</td>
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<td>Professor</td>
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<td>M.S., Western Illinois University Counseling</td>
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<td>John Hartman</td>
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<td>Assistant Professor</td>
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<td></td>
</tr>
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<td>Ilga Higbee</td>
<td>(1989)</td>
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<td></td>
</tr>
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<td>Jamie D. Hill</td>
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<td>Instructor</td>
<td>MS, Marycrest Networking</td>
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</tr>
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<td>Professor</td>
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<td></td>
</tr>
<tr>
<td>Karen Hindhede</td>
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<td>Instructor</td>
<td>M.A., University of Nebraska-Lincoln English</td>
<td></td>
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<td>Linda Hoeltzner</td>
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<td>M.A., Illinois State University Adult Basic Education</td>
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<td>(1985)</td>
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<td>(2002)</td>
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<td>Amy Kolker</td>
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</tbody>
</table>
Valerie Koster (2002)  
Instructor  
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Mary Beth Kwasek (1997)  
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Joel J. Riley (1987)  
Professor  
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Mathematics
<table>
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<tr>
<td>Dee Robbins</td>
<td>(1997)</td>
<td>Assistant Professor</td>
<td>M.S., Western Illinois University</td>
<td>Reading, GED</td>
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<td>Glenn Saddoris</td>
<td>(1983)</td>
<td>Associate Professor</td>
<td>B.S., Western Illinois University</td>
<td>Manufacturing Technologies</td>
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<td>Janet Seiz</td>
<td>(2001)</td>
<td>Instructor</td>
<td>M.A., Case Western Reserve University</td>
<td>Art History</td>
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<td>Dolores Sierra</td>
<td>(1987)</td>
<td>Associate Professor</td>
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<td>Bruce Smith</td>
<td>(1999)</td>
<td>Assistant Professor</td>
<td>B.S., Western Illinois University</td>
<td>Emergency Medical Services</td>
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<td>John Smith</td>
<td>(2002)</td>
<td>Instructor</td>
<td>M.S., Western Illinois University</td>
<td>Psychology</td>
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<td>Nancy Smith</td>
<td>(1980)</td>
<td>Professor</td>
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<td>Psychology and Sociology</td>
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<td>Susan Smith</td>
<td>(1980)</td>
<td>Associate Professor</td>
<td>M.A., University of Iowa</td>
<td>Special Student Services</td>
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<td>Toni Smith</td>
<td>(2002)</td>
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<td>Laura Snook</td>
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<td>John Sullivan</td>
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<td>Jeanne Tamisiea</td>
<td>(1987)</td>
<td>Professor</td>
<td>M.F.A., Michigan State University</td>
<td>Art</td>
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<td>Zaiga Thorson</td>
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<td>Paula Tigerman</td>
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<td>Assistant Professor</td>
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<td>Accounting</td>
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<td>Michael J. Townsend</td>
<td>(2000)</td>
<td>Instructor</td>
<td>A.A., Black Hawk College</td>
<td>Networking</td>
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<td>Bettie Truitt</td>
<td>(1989)</td>
<td>Professor</td>
<td>Ph.D., University of Iowa</td>
<td>Mathematics</td>
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<td>Stephanie Valdes</td>
<td>(1985)</td>
<td>Professor</td>
<td>M.S., Northern Illinois University</td>
<td>Associate Degree Nursing</td>
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<td>Helene Washington</td>
<td>(1989)</td>
<td>Professor</td>
<td>M.A., University of Iowa</td>
<td>Health/Physical Education</td>
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<td>Janet Weigel</td>
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<td>Professor</td>
<td>M.S., George Williams College</td>
<td>Psychology and Sociology</td>
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<td>Jodee Werkheiser</td>
<td>(2000)</td>
<td>Assistant Professor</td>
<td>B.S., University of Illinois</td>
<td>Computer Science Applications</td>
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<td>Verity Whitley</td>
<td>(1964)</td>
<td>Associate Professor</td>
<td>M.S., University of Illinois</td>
<td>English</td>
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<td>Jeffrey Wolever</td>
<td>(1972)</td>
<td>Associate Professor</td>
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<td>Jon Wolf</td>
<td>(1974)</td>
<td>Professor</td>
<td>M.S., University of Illinois</td>
<td>Horse Science</td>
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</tbody>
</table>
### Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Calendar</td>
<td>9</td>
</tr>
<tr>
<td>Academic Information and Regulations</td>
<td>31</td>
</tr>
<tr>
<td>Academic Standards</td>
<td>33</td>
</tr>
<tr>
<td>Access to Education &amp; Employment</td>
<td>127</td>
</tr>
<tr>
<td>Accounting</td>
<td>134</td>
</tr>
<tr>
<td>Accounting Clerk</td>
<td>62</td>
</tr>
<tr>
<td>Accounting Specialist</td>
<td>62</td>
</tr>
<tr>
<td>Accounting Transfer</td>
<td>102</td>
</tr>
<tr>
<td>Achievement Awards</td>
<td>22</td>
</tr>
<tr>
<td>Address Change</td>
<td>30</td>
</tr>
<tr>
<td>Administrative Assisting</td>
<td>63</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>199</td>
</tr>
<tr>
<td>Administrators</td>
<td>198</td>
</tr>
<tr>
<td>Admission Policy</td>
<td>14</td>
</tr>
<tr>
<td>Adult Basic Education</td>
<td>126</td>
</tr>
<tr>
<td>Adult Education</td>
<td>126</td>
</tr>
<tr>
<td>Advanced Placement Program</td>
<td>35</td>
</tr>
<tr>
<td>Adventures in Learning – Youth Classes</td>
<td>132</td>
</tr>
<tr>
<td>Advisement Services</td>
<td>46</td>
</tr>
<tr>
<td>Affirmative Action</td>
<td>11</td>
</tr>
<tr>
<td>Agri-Business Management</td>
<td>57</td>
</tr>
<tr>
<td>Agriculture</td>
<td>135</td>
</tr>
<tr>
<td>Agriculture Curricula</td>
<td>56</td>
</tr>
<tr>
<td>Agriculture Mechanics</td>
<td>84</td>
</tr>
<tr>
<td>Agriculture Mechanics Technology</td>
<td>83</td>
</tr>
<tr>
<td>Agriculture Production</td>
<td>59</td>
</tr>
<tr>
<td>Agriculture Production Technology</td>
<td>58</td>
</tr>
<tr>
<td>Agriculture Transfer</td>
<td>103</td>
</tr>
<tr>
<td>Air Conditioning Specialist</td>
<td>83</td>
</tr>
<tr>
<td>American Payroll Association</td>
<td>128</td>
</tr>
<tr>
<td>American Production and Inventory Control Society (APICS)</td>
<td>131</td>
</tr>
<tr>
<td>American Society for Quality (ASQ)</td>
<td>128</td>
</tr>
<tr>
<td>Anthropology</td>
<td>103, 141</td>
</tr>
<tr>
<td>Anthropology-Archaeology</td>
<td>103</td>
</tr>
<tr>
<td>APA's Payroll Professional Learning Series</td>
<td>128</td>
</tr>
<tr>
<td>Apprentice Training Programs</td>
<td>81</td>
</tr>
<tr>
<td>Archaeology</td>
<td>103, 141</td>
</tr>
<tr>
<td>Armed Service Experience</td>
<td>37</td>
</tr>
<tr>
<td>Art</td>
<td>104, 142</td>
</tr>
<tr>
<td>Articulation</td>
<td>37</td>
</tr>
<tr>
<td>AS/400 Programmer</td>
<td>63</td>
</tr>
<tr>
<td>Assessment</td>
<td>27</td>
</tr>
<tr>
<td>Associate Degree Nursing</td>
<td>75</td>
</tr>
<tr>
<td>Associate in Applied Science Degree</td>
<td>41</td>
</tr>
<tr>
<td>Associate in Arts Degree</td>
<td>38</td>
</tr>
<tr>
<td>Associate in Liberal Studies Degree</td>
<td>42</td>
</tr>
<tr>
<td>ASTD</td>
<td>128</td>
</tr>
<tr>
<td>ASTD Human Performance Improvement Certificate Program</td>
<td>128</td>
</tr>
<tr>
<td>Astronomy</td>
<td>143</td>
</tr>
<tr>
<td>Athletics</td>
<td>48</td>
</tr>
<tr>
<td>Attendance</td>
<td>32</td>
</tr>
<tr>
<td>Auditing</td>
<td>29</td>
</tr>
<tr>
<td>Auto Collision Repair</td>
<td>92</td>
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<td>Broadcasting</td>
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<td>CNC Machine Tool Programming</td>
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