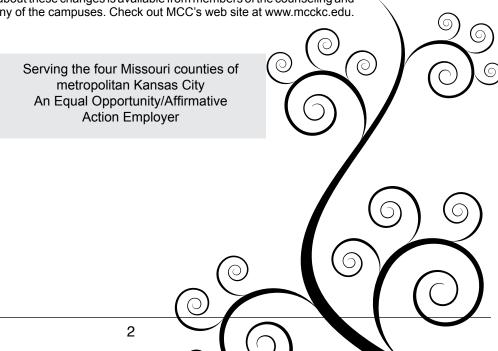


Metropolitan Community College Catalog 2013-2014

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NOTE

This catalog contains information that will familiarize you with Metropolitan Community College. Contents of this catalog are current as of the August 2013 publication. Material in the catalog relates to the operations and activities of Metropolitan Community College and is for informational purposes only. It does not represent enforceable contractual obligations of Metropolitan Community College. The college reserves the right to modify programs, course offerings, printed schedules, rules, regulations and operations at any time. Information about these changes is available from members of the counseling and advising staff at any of the campuses. Check out MCC's web site at www.mcckc.edu.



Letter from the Chancellor



Mark James Chancellor

Welcome to Metropolitan Community College! Thank you for choosing us. Whether you are fresh out of high school, are coming to us from a 4-year university, or have been in the workforce and are now looking for new skills, we are here to help you achieve your educational goals.

If you're looking to earn an associate's degree, MCC has 87 of them to choose from. If you're looking to earn a certificate in a technical career, you can pick from over 60 career certificate programs. As a transfer institution, we have over 400 articulation agreements with colleges and universities throughout the nation who will grant you credit towards a baccalaureate degree for classes taken at MCC. Whatever your objective, we want to help you accomplish it.

The following is a list of student services at MCC that are here to support you. I really encourage you to take advantage of all we have to offer:

- Advisors can help you figure out what classes to take to earn your degree
- **Counselors** can help you determine your career path
- **Faculty** are not only here to teach you inside the classroom but can also provide instructional support during weekly office hours
- The Learning Center offers one-on-one tutoring and supplemental instruction to help you better understand subjects, classes or concepts that are challenging to you
- The Financial Aid office can help you wade through all of the options of ways to help pay for school
- The **Re-entry Office** can help you deal with unique challenges if you have been away from school awhile and want some help re-adjusting to classroom learning
- The **Campus Life & Leadership** office has plenty of opportunities for you to get involved, to get connected, and to find your support network on campus. Student ambassadors, clubs, debate team, Skills USA, Phi Beta Kappa, and men and women's sports are but a few of the many student activities awaiting you
- The Access Office provides support if you're dealing with emotional, physical or learning challenges
- Student Employment Services can help you with your job search when you're ready to start (or continue) your career

MCC is one college with five campuses conveniently located throughout the metropolitan area. Taking classes near home, near work, or even on-line has never been easier. I truly hope that you will take advantage of these great services while you're at MCC so we can support you on your journey towards college completion.

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Mark S. James Chancellor

Mark S. James

The Board of Trustees



From left to right: (standing) Christopher Whiting, Robert Martin, Richard Charles Tolbert, Trent Skaggs, (seated) Mariann Tow and David Disney.

The Officers of the District



Mark James Chancellor



Tuesday Stanley
Vice Chancellor,
Administrative Services
and Student Development



Paul Long Vice Chancellor, Academic Affairs and Technology



Michael Banks
President,
MCC-Blue River



Kirk Nooks
President,
MCC-Longview



Utpal Goswami
President,
MCC-Maple Woods



Joseph Seabrooks
President,
MCC-Penn Valley

All Roads Lead to MCC



MCC INFORMATION CENTER (816) 604-1000

ADMINISTRATIVE CENTER

Telephone (816) 604-1000 Fax (816) 759-1158 3200 Broadway Kansas City, Missouri 64111-2429

MCC-BLUE RIVER

Telephone (816) 604-1000 Fax (816) 220-6511 20301 East 78 Highway Independence, Missouri 64057-2052

MCC-BUSINESS & TECHNOLOGY

Telephone (816) 604-1000 Fax (816) 482-5256 1775 Universal Avenue Kansas City, Missouri 64120-2429

MCC-CASS COUNTY

Telephone (816) 604-1000 Fax (816) 672-2025 Belton High School Freshman Center 801 West North Avenue Belton, Missouri 64012

MCC-LONGVIEW

Telephone (816) 604-1000 Fax (816) 672-2025 500 SW Longview Road Lee's Summit, Missouri 64081-2105

MCC-MAPLE WOODS

Telephone (816) 604-1000 Fax (816) 437-3049 2601 NE Barry Road Kansas City, Missouri 64156-1299

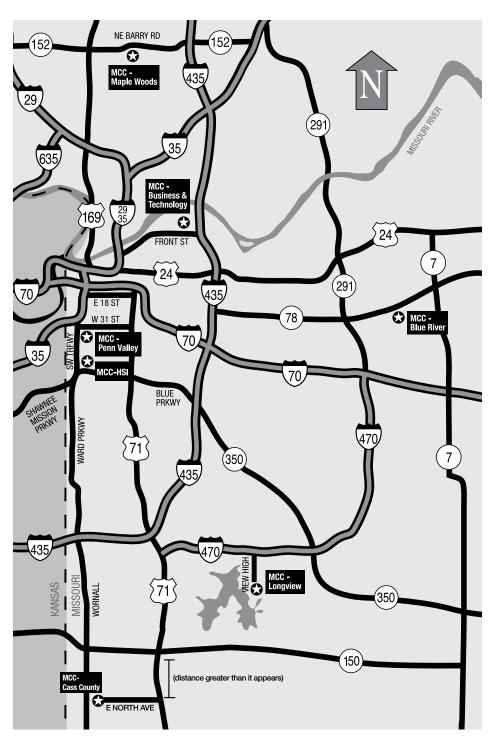
MCC-PENN VALLEY

Telephone (816) 604-1000 Fax (816) 759-4161 3201 Southwest Trafficway Kansas City, Missouri 64111-2764

MCC-PENN VALLEY HEALTH SCIENCE INSTITUTE

Telephone (816) 604-1000 3444 Broadway Kansas City, Missouri 64111-2764 o matter where people live in the greater Kansas City metropolitan area, they're just minutes away from one of the five Metropolitan Community College campuses. There's MCC-Blue River in the east;

MCC-Business & Technology, located near I-435 and Front Street; MCC-Longview to the south; MCC-Maple Woods in the Northland; and MCC-Penn Valley in Midtown.



Academic Calendar

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see www.mcckc.edu for up-to-date caldendar & events

MCC Mission

Preparing students, serving communities, creating opportunities.

In order to accomplish this mission, the board of trustees has empowered the chancellor, as executive officer, to implement its policies. The chancellor, with the other officers of the District, will provide leadership in the implementation of the mission of the District.

Vision

Learning is the focus of everything we do at Metropolitan Community College.

Student learning is central to our mission; employee learning is key to our strength; and organizational learning is the foundation for innovation and growth.

Learning is a lifelong process. Learners are whole persons with intellectual, physical, emotional, spiritual, social, ethical, vocational and economic dimensions.

As learners, as facilitators of learning, and as an organization, we accept responsibility to:

- Manage learning and commit the time and energy that meaningful learning requires.
- Encourage free, open and respectful exchange of ideas as a natural part of change.
- Synthesize tradition and innovation in order to enhance academic achievement.
- Design and implement structures and processes that promote learning.
- Draw on diversity to influence and inform learning.
- Engage in continuous assessment, reflection, and adaptation.
- Create a physical, social and intellectual environment that supports learning.
- Build partnerships that promote individual, institutional and community betterment.

Purpose Statements

- Provide courses and associate degree programs that prepare students to transfer to four-year colleges and universities to complete bachelor's degrees.
- Provide courses, certificates and associate degree programs to prepare students to enter the work force in skilled jobs and careers.
- Provide courses, certificates and associate degree programs to assist adult workers to upgrade their job skills, change careers, or advance in their careers.
- Provide instruction in core academic skills that prepare students to succeed in college-level courses and programs.
- Provide student development and support services to assist students to achieve their academic, career and personal goals.
- Provide and support activities to enhance student learning outside the classroom.
- Provide a range of services and accommodations to help all prospective students overcome barriers to access college programs and opportunities.
- Provide courses and other educational and cultural activities to enrich the lives of members of the community.
- Provide business support services and other training and assistance to support the economic development of the community.
- Collaborate with other educational institutions, communitybased organizations, agencies, businesses and industries to meet the needs of the community.

Commitment to Diversity

Metropolitan Community College is committed to achieving freedom from all forms of discrimination and harassment in its policies, practices and endeavors. Further, MCC is committed to fostering a diverse community and to promoting greater awareness of and sensitivity to issues of diversity.

Toward that end, MCC asserts the dignity and worth of every human being and the value of diversity as a source of its strength, including diversity of race, gender, ethnicity, national origin, culture, sexual orientation, religion, disability, and perspective among students, faculty, staff and administrators.

Core Values

Excellence. MCC strives for excellence in all that we do. We pursue innovation with thought and purpose. We constantly seek to achieve the highest level of quality in our processes, programs and services.

Success. The fundamental standard of our performance is the success of our students. We strive to support the successful development of our employees and our communities.

Access. MCC is committed to eliminating barriers to the pursuit of higher learning. We strive to provide affordable and accessible opportunities to all members of our community.

Diversity. MCC embraces diversity in our student body, work force, curriculum and community. We know that diversity supports learning, excellence and preparation for global citizenry.

Integrity. MCC adheres to the highest standards of honesty and integrity in all that we do, in academics, in communication with constituents, and in institutional policies and practices.

Inquiry. MCC supports academic freedom for faculty and freedom of inquiry for students in pursuit of knowledge and truth. We seek to engender the skills and values of a general education in all graduates.

Care. MCC is committed to establishing and maintaining a caring, safe and supportive environment, secured on a foundation of civility and respect for the dignity of all persons.

Community. MCC strives to build, nurture and improve the communities of which we are part, and to collaborate with partners to serve the common good.



Opening Doors of Opportunity Since 1915

The roots of Metropolitan Community College go back to 1915, when the Kansas City Polytechnic Institute was founded at 11th and Locust Street. Then 234 students enrolled. Now more than 43,000 students a year attend five MCC campuses spread across four counties. In its long tradition of excellence, MCC has brought opportunity to hundreds of thousands of people and has made an enormous cultural and economic impact on the area.

In 1919, the institution became the Junior College of Kansas City and was one of the first two-year colleges in the United States to award the associate's degree. The Junior College continued to expand until 1964, when voters in suburban school districts—Belton, Center, Grandview, Hickman Mills, Lee's Summit, North Kansas City and Raytown—joined with the Kansas City School District to create the Metropolitan Community College District.

Five years later, three colleges — Longview, Maple Woods, and Penn Valley — opened their doors. In the 80s and 90s, Blue Springs, Fort Osage, Independence and Park Hill School Districts voted to join MCC. A campus was established at Blue Springs in 1984 and in 1995, the main campus at Independence was built. In 1997, these two campuses became Blue River Community College. In 1995, business services and technical training were centralized at a location near I-435 and Front Street. Several expansions later, this facility became MCC's fifth campus, the Business & Technology Campus.

In 2005, the five Metropolitan Community Colleges became one: Metropolitan Community College (no "s") with five campuses.

MCC-Blue River

MCC-Blue River is MCC's fastest growing campus. It serves Eastern Jackson County with quality transfer programs and a unique Public Safety Institute that houses Police and Fire Academies and EMT training.

MCC-Business & Technology

The MCC-Business & Technology is home to a long list of technical programs that puts MCC at the cutting edge of today's technical world. The campus includes a 56,500 square foot meeting and exhibit hall.

MCC-Longview

MCC-Longview overlooks Longview Lake in Lee's Summit and is on land donated to MCC by the family of R.A. Long, a pioneer lumberman. The campus includes an exceptional Recreational Center and a nationally prominent automotive technology program. MCC-Longview was the first community college to achieve *Time* magazine/Princeton Review's College of the Year honors.

MCC-Maple Woods

MCC-Maple Woods in the Northland gets its name from a nearby stand of sugar maple trees. The campus includes an outstanding veterinary technology program, GIS program, and a Human Services Center, which provides housing for area human services agencies as well as the campus's child care and fitness center. The Sports Training Center (STC) offers sports teams and individuals the chance to train inside year-round.

MCC-Penn Valley

Located near Penn Valley Park, MCC-Penn Valley is a huge enclosed campus that includes the Francis Child Development Institute and the Anna and Kemper Carter Center for Visual Arts and Imaging Technology. South of the main campus buildings is the Health Science Institute, a state-of-the-art facility that holds more than a dozen health care programs and unique simulation suites.













MCC Foundation-Alumni Association

The MCC Foundation-Alumni Association (MCC Foundation) is a non-profit organization that raises and receives private gifts for Metropolitan Community College. Gifts to the MCC Foundation help thousands of students by providing scholarships, and maintaining MCC's tradition of excellence for the benefit of its students, faculty, staff, and community and future students.

Scholarship funds raised by the Foundation help students who have the desire for a college education, but not the means. All students deserve the chance to better their lives through education. Students may view general information about scholarships and apply at www.mcckc.edu/scholarship. For the district, the Foundation administers over 250 scholarships and endowments, sponsors alumni and donor recognition events, and leads fundraising campaigns. Our Board of Directors participates in planning and volunteering programs as well as maintaining relationships with the greater community. The Foundation is committed to forming partnerships that make Metropolitan Community College the first choice for higher education in Kansas City.

In addition the MCC Foundation:

- Provides funds for special campus projects such as libraries, classrooms, technology, and student support programs.
- •Supports the enhancement and construction of new facilities.
- •Supports educational programs to increase student success.

Foundation Mission

To advance the mission of the Metropolitan Community College by attracting resources that increase student access to educational opportunities and support quality programs and environments that respond to the educational and workforce needs of the community.

Ways to Give

There are several ways to make a gift to the Metropolitan Community College Foundation:

- Make an online gift

To give online by credit card, please visit www.mcckc.edu/donate.

-Make a gift by phone

Call 816.604.1195 to talk to a member of the MCC Foundation.

-Make a gift by check or money order

Make the donation payable to:

Metropolitan Community College Foundation 3200 Broadway

Kansas City, MO 64111

-Make a pledge

To have a form mailed or electronically mailed to you, call 816.601.1195

-Payroll Deduction

If you are a faculty or staff member and would like to contribute via payroll deduction, please complete the Foundation Pledge form found on the MCC infoexchange under forms/foundation.

All gifts are administered in compliance with IRS regulations. Gifts may be designated unrestricted, which allows them to be used in the areas of greatest need, or you may specify a particular program or scholarship. Because the foundation is a non-profit organization, most contributions are tax deductible as a charitable gift. To find out more, call 816.604.1195 or visit www.mcckc.edu/foundation.

Scholarships

The following are the basic steps to apply for a scholarship.

- Plan ahead. Most scholarships are reviewed in the spring for the fall semester. If all MCC scholarships are not fully awarded or more funds become available later in the school year, MCC will reopen the review process for those funds still available. All scholarships are awarded based upon available funds.
- 2. Complete the application. Apply for MCC scholarships online at www.mcckc.edu/scholarshipsearch. After submitting your application, you must check your myMCCKC Student Center Scholarship Application Status page to see if any additional steps must be taken. Applications with missing information will not be reviewed and you will miss your opportunity to qualify for a scholarship or grant. You may apply for as many scholarships as you like however, the MCC Board of Trustee policy limits students from receiving more than one institutional fee-paying scholarship per year.
- If the scholarship requires that you submit financial aid forms, you must complete a Free Application for Federal Student Aid. You may complete your FAFSA online at www.fafsa.gov. When completing the form, use MCC's school code 002484 to speed processing.
- 3. Submit the supporting documentation. Complete all the necessary application steps and submit necessary documentation by the priority application deadline of April 1. Meeting all the requirements of a scholarship does not automatically qualify you to receive a scholarship. A committee at each campus awards the scholarships. You must have a minimum 2.0 G.P.A. to be considered for any scholarships, unless a higher G.P.A. is noted.
- 4. **Ask Questions.** If you have questions, contact our MCC Information Center at (816) 604-1000.

MCC Foundation and Institutional Scholarships

(Available at more than one MCC campus)

For all MCC Foundation scholarships the priority application deadline date is April 1. MCC will reopen the review process if funds are still available. Please contact your campus financial aid office for additional information.

Apply online: http://mcckc.edu/Scholarships

Admission Information

Eligibility

Students who want to enroll in Metropolitan Community College have several avenues that lead to admission: a high school diploma, a General Educational Development (GED) test that certifies the equivalency of high school graduation, or home-school graduation. International students are also welcome on the MCC campuses.

In some cases, those who are 18 and older and who haven't graduated from high school or obtained a GED may be admitted as special students. During their first term, the college limits them to 12 credit hours and then re-evaluates their status during subsequent enrollments. High school students under 18 may be admitted if recommended by their principal or counselor and if their application is approved by the appropriate college official.

Catalog

The catalog is in effect for the term a student is admitted to the college and is assigned as the student's "catalog of record". Students will follow the program requirements specified in their catalog of record to progress toward graduation. Students who later change to a new major or change from non-degree-seeking status to a declared major will follow the catalog in effect at the time of the change. Students who are continuously enrolled at MCC will maintain their catalog of record. Students who miss four consecutive full semesters (excluding summer) will follow the catalog in effect at the time of re-entry. Students may select a more current catalog as their catalog of record and would then follow the program requirements specified in that catalog. Students may not combine

program requirements from multiple



College Orientation (COLL 100)

COLL 100 is a one credit hour course designed to help students adjust to the MCC community, develop a better understanding of the learning process, and acquire essential academic survival skills. The course should be completed during students' first enrolled semester. Starting in Fall 2012, any first-time student at MCC with fewer than 12 credit hours completed after high school with at least a 2.0 GPA will take the class, except students

- who are visiting students from another institution,
- who are coming to take a few classes for professional development/work purposes,
- who are taking classes for personal enrichment, or
- who have already successfully completed an orientation class at another institution.

ESL students who test below a 77 on the reading portion of the ESL Compass test will not take the class until they have successfully progressd to intermediate-level ESL classes.

College Admission

To apply for admission, a student must follow these steps:

- Complete the online MCC Application for Admission at www.mcckc.edu. Once MCC processes your application you are admitted to the college. Some MCC programs have special requirements.
- Request that the appropriate transcripts be sent to the MCC Student Data Center, 3200 Broadway, Kansas City, Missouri 64111. Once received, transcripts will be processed and evaluated.
 - First-time college students should ask the high school they last attended to send a transcript to the above address.
 - Students who have taken the GED test given by the Missouri State Department of Elementary and Secondary Education should have their scores sent to the above
 - Students who are transferring from another college or university should submit a transcript from each school attended to above address.

- d. Home-school students must provide documentation as required by Missouri State Statute 167.031.2 (2)(a), R.S. MO.
- e. Students who are enrolled at a college or university other than MCC may take MCC courses as a visiting student.
- f. If you have already earned a degree, you are not required to see an advisor or take the placement test. However, these services are available to assist you in selecting appropriate courses. If you are planning to pursue a degree or certificate with MCC, official transcripts must be submitted and it is also important to consult with an advisor to ensure your enrollment includes all the necessary courses.

Students seeking admission to MCC should apply and send the required documents to the Student Data Center several months or weeks before classes begin. The student will receive an electronic communication or a letter confirming admission and notifying each student how to enroll in classes.

Admission of High School Students

High school students who want to enroll at MCC must obtain permission from a parent or legal guardian. They may take a limited class schedule but only after getting approval from their high school official and the appropriate MCC administrator. After this approval, students should complete an Application for Admission, which is available online at www.mcckc.edu.

MCC's dual credit program offers college credit for courses as part of daily scheduled classes at area high schools. Dual credit tuition and fees may be different from those set for on-campus courses, but they are the same for all high schools. High school students must talk to their high school counselor regarding eligibility requirements before enrolling.

NOTE: Metropolitan Community College does not give high school credit.

online. anytime. WWW.MCCKC.EDU

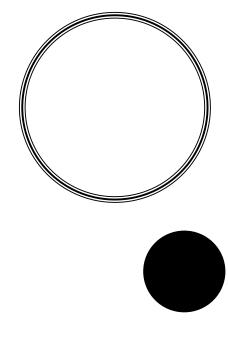
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Admission to JCCC and KCKCC Programs

Metropolitan Community College (MCC) has established affiliate agreements with Johnson County Community College and Kansas City Kansas Community College (referred to below as Affiliate Colleges) in career fields not currently offered by MCC. These agreements allow MCC students who are in-district and Missouri residents to enroll in selected career programs offered at these institutions and pay MCC's tuition rates.

Policies and Procedures

- 1. A student in the Affiliate Program is responsible for tuition at the MCC rate.
- Only courses that are not offered at MCC are covered by this Agreement. If you elect to take a course at the Affiliate College that is offered at MCC, you will be responsible for paying the out-ofstate tuition.
- Repeated course work is not covered by this Agreement. If you elect to repeat a course at the Affiliate College, you must pay the out-of-state tuition at that college.
- 4. Enrollment in the program is limited. Students must submit their transcripts and application for admission to the Affiliate College by the established deadline. Check with the Admissions Office at the Affiliate College.
- Federal financial aid may not be granted by more than one college during each enrollment period. If you are seeking financial aid, contact the Financial Aid Office at the Affiliate College.
- 6. MCC reserves the right to make changes in the program at any time.



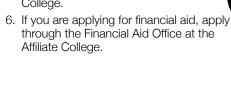
Admission and Enrollment Steps for MCC Affiliate Program Students

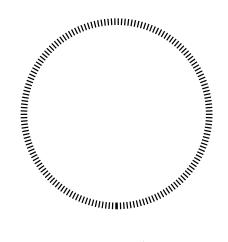
New Affiliate Program Students, complete steps 1 through 6.

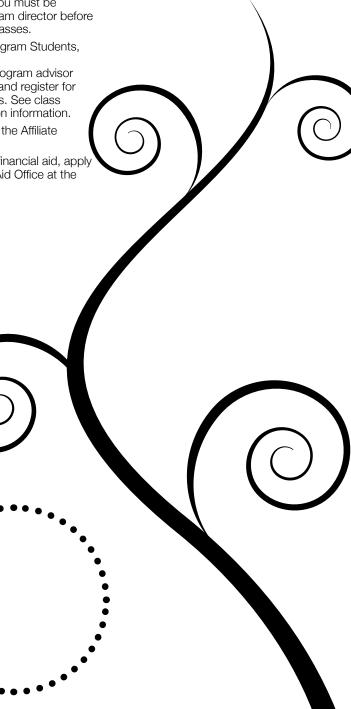
- 1. Complete an application for admission and take a placement test at MCC.
- Complete an Affiliate Program Student Agreement form and present it in person at any MCC Student Records office. This form is available at www.mcckc.edu or any MCC Student Records Office.
- Complete and submit an application for admission to the Affiliate College Admissions Office. For selective admission programs you must be accepted by the program director before you can enroll in the classes.

Continuing Affiliate Program Students, complete steps 4 – 6

- See the appropriate program advisor at the Affiliate College and register for degree-specific classes. See class schedule for registration information.
- 5. Pay tuition and fees at the Affiliate College.







International Students

Application Procedure for International Students

To be considered for admission, all applicants must complete requirements listed below:

- Submit a \$50 application fee in U.S. dollars. This is a nonrefundable fee that will be applied to your first semester's tuition.
- Submit a completed Application for Admission for International Students. This form must be completely filled in and submitted by the prospective student.
- Bank Statement and Affidavit of Support.
- Official School Transcripts (translated to English).
- Transfer Clearance Form. If you are transferring from another U.S. school, you must also submit a Transfer Clearance Form. The International Student Advisor at the college you are now attending must fill it out.
- TOEFL is not required for admission. Applied Language Institute. The Applied Language Institute offers comprehensive English as a Second Language instructional programs for academic, personal or professional reasons. Grammar, composition, reading/vocabulary and speaking/listening classes are available at the beginning, intermediate and advanced levels. Day and evening sections are offered. Students wishing to attend ESL classes must take the placement test given by the institute. For more information about enrollment requirements, program curriculum and class scheduling, call (816) 604-4041.

International Student Application Deadlines Students from Overseas

Fall Semester

(August-December) July 1

Spring Semester

(January-May) December 1

Summer Semester

(June-July) May 1

Students Transferring from Another U.S. School (must have written authorization from that school)

Fall Semester

(August-December) August 1 Spring Semester (January-May) January 2

Summer Semester

(June-July) May 15

For more information visit

www.mcckc.edu/international.

Placement Testing

To help students succeed, most MCC students must take placement tests in reading, writing, and mathematics. Placement tests are required for the following groups of students:

- 1. All first-time students taking six or more credit hours.
- 2. Students who are not graduates of an accredited secondary school or who do not have a GED certificate.
- 3. Returning or transfer students taking six or more credit hours who have not successfully completed a college-level reading, English, and math course with a grade of C or better.
- 4. All students not tested previously who plan to enroll in reading, English, or math classes.

Additional Notes:

- Visiting students who have approval for enrollment from their home college will not be required to take the placement test.
- If a student has taken the ACT examination in the last two years, he or she may be able to use those scores in place of parts of the placement test. The student must submit the ACT scores to the Student Data Center, or bring an official score report when they come to test.

- It is the policy of Metropolitan Community College that all non-native speakers of English take the Applied Language Institute's English Placement Test. This test is only offered at the campuses. Students will be placed at the appropriate level of instruction in the Applied Language Institute based on the results of the English Placement Test.
- Students with disabilities who need testing accommodations must contact the Access Office before scheduling their placement tests.

Based on their test scores, all students will be placed in the appropriate reading, English, and math classes. Students with below college-level scores are required to take classes designed to improve their reading, writing, or math skills.

The reading, English, and math departments have set MCC's required entry-level standards for students. Students who wish to appeal these standards should contact the appropriate department chair.

Resident Classification

Student tuition and fees are determined by the following definitions and criteria.

Definitions

Domicile. A residence established with the intent of making that residence a permanent home for an indefinite period.

Residency or Resident Status. That status achieved after proving a residency has been established.

Adult Student. A student who is twenty-one years or older.

Unemancipated Minor Student. A student younger than twentyone years and who is under the care, custody, or support of a parent or legal guardian.

Emancipated Minor Student. A student younger than twenty-one years but who is not under the care, custody or support of a parent or legal guardian.

District. The Metropolitan Community College District includes the following Missouri school districts: Belton, Blue Springs, Center, Fort Osage, Grandview, Hickman Mills, Independence, Kansas City, Lee's Summit, North Kansas City, Park Hill, and Raytown.

District Resident. A person whose residence status is in the district.

Out of District Missouri Resident. A person whose residence status is in Missouri, but not in the district.

Out of State Resident (Non Resident). A person who lives in the United States, but not in the state of Missouri, or a foreign national who is in the United States on an approved student visa status.



Resident Status

Adult Student. If a nonresident adult student provides sufficient proof of the establishment of a domicile within the district, then that student will be considered a district resident at the next enrollment.

If a nonresident adult student provides sufficient proof of the establishment of a domicile within the state of Missouri but not in the district, then that student will be considered a nondistrict Missouri resident at the next enrollment.

Unemancipated Minor Student. MCC assumes that an unemancipated minor student lives with his or her parents or legal guardians. If the parents or legal guardians establish a domicile within the district, the student will be considered a district resident at the next enrollment.

Once an unemancipated minor student has established resident status under this rule, the student may continue to qualify for resident status as long as he or she is continuously enrolled at MCC (excluding summer terms). The student will retain this status even if his or her parents or legal guardians move outside of the district.

Emancipated Minor Students. The domicile of emancipated minor students will be determined as if they were adults. A minor may become emancipated through marriage, formal court action, abandonment or leaving the home of his or her parents or legal guardians. However, the mere absence of a student from the home of his or her parents or legal guardian does not prove emancipation. A student will not be eligible for emancipation as long as he or she is taken as an income tax deduction by someone other than a spouse.

Members of the Military. Students will not gain or lose their resident status because of military service.

The resident status of a military member on active duty assigned to a Missouri duty station is determined by the location of that station. The person's spouse and unemancipated minor children have the same resident status.

Foreign Nationals. The domicile of a resident alien determines resident status. A foreign national in a student visa status approved solely for the purpose of education is an international student. The residence of a foreign national in a visa status permitting enrollment in education determines resident status.

Determining Resident Status

Students are responsible for providing documentation supporting resident status.

Evidence of Eligibility

Attendance at an institution of higher education is considered as temporary presence in the district or the state of Missouri and does not establish resident status.

Evidence of Domicile

The following offers sufficient proof of domicile.

- Presence within the district or the state of Missouri for a minimum of twelve immediate past, consecutive months with proof of intent to make the district or the state of Missouri a permanent home for an indefinite period.
- Presence within the district or the state of Missouri for the purpose of retirement, or full-time employment, professional practice or to conduct a business.

Supporting Evidence

The following will be given significant weight, but will not conclusively prove establishment of domicile.

- 1. Continuous presence in the district or the state of Missouri during those periods when not enrolled as a student.
- 2. Marriage to a district or Missouri resident and maintenance of a common domicile with the resident spouse.
- 3. Substantial reliance on sources within the district or the state of Missouri for financial support.
- Maintaining a domicile within the district or the state while absent.
- 5. Ownership of a home within the district or the state of Missouri.

Other Evidence

Although the following factors indicate an intent to make the district or state of Missouri a permanent home for an indefinite period, they will be given less weight than those in the previous section. These factors will help determine status only in borderline cases.

- 1. Voter registration.
- 2. Part-time employment.
- Statement of intention to establish a domicile in the district or the state.
- Automobile registration with an address in the district or the state.
- Valid driver's license with an address in the district or the state.
- 6. Tax receipts from income, personal, and property taxes paid to the district or the state.

Certifying Residency

Each student must pay fees and tuition to Metropolitan Community College based on his or her resident classification. If there is any possibility the student may owe the district more in fees and tuition than what has been assessed, it is the student's responsibility to raise the issue during registration.

Penalty for Giving False Residency Information

The student's record will not be certified to any agency until he/ she has paid the difference between the fees and tuition paid and the amount owed by a person of that resident status.

Students in the Military

MCC is a Service Members Opportunity College (SOC), one of more than 1,000 colleges and universities that provide advantages including credit for military education for military members and their families and for veterans. For those who qualify, MCC provides a 100% tuition and textbook refund for students called into active duty or given military transfer orders who must withdraw from classes prior to completing the semester. Contact the campus registrar's office for refund information.

As part of the SOC agreement, MCC will limit academic residency to twenty-five percent or less of the degree requirement for all degrees for active-duty servicemembers and their adult family members (spouse and college-age children). In addition, there are no "final year" or "final semester" residency requirements for active-duty servicemembers and their family members. Academic residency can be completed at any time while active-duty servicemembers and their family members are enrolled. Reservist and National Guardsmen on active-duty are covered in the same manner.

For more information, call Matt Vandenberg at MCC at (816) 604-1561.

Financial Information

Tuition and Fees

he Metropolitan Community College
Board of Trustees approves the schedule
of tuition and fees annually. Your
residency determines the amount you will be
charged per credit hour. Residency must be
established prior to the term start date.

In District Rate- To qualify for this rate you
must reside in one of the following school
districts: Belton, Blue Springs, Center, Fort
Osage, Grandview, Hickman Mills, Independence, Kansas City, Lee's Summit, North
Kansas City, Park Hill or Raytown.

Out of District Rate- To qualify for this rate, you must reside in the state of Missouri and outside of the school districts listed above.
Out of State (Non-Resident)- You are considered a non-resident if you do not reside in Missouri or are a foreign national who is in the U.S. in an approved student visa status.

Financial Responsibility

As a student at MCC, you become financially obligated and responsible for paying all college charges. If your financial aid award, scholarship or payment from an external source becomes unavailable or is insufficient to pay charges, you are ultimately responsible for the balance.

Failure to attend classes does not relieve you of the responsibility of paying your balance. To have charges removed or reduced, you must officially drop the classes within the designated refund period.

Any outstanding charges will result in a financial hold on your account. Financial holds will require that you pay your outstanding balance in order to re-enroll, receive a diploma and/or transcript. MCC will begin immediate collection efforts that may include placing your account with the Missouri income tax intercept program and/or an outside collection agency. You will be responsible for all collection costs assessed by the outside collection agency.

Lab and Studio Fees

For some courses or programs — such as biology, chemistry, fine arts, and nursing — students may have to pay a laboratory or studio fee for each contact hour. Contact hours are those hours that students must spend in a lab or studio each week. They are not the same as credit hours.

Loss or Damage to District Property

A student may be asked to reimburse the district for the loss of or damage to district property including unreturned rental books. For example, students must pay for unreturned library books. If payment is not made, a hold will be put on the students account and the student will not be allowed to enroll in any MCC class, will not be allowed to check out any further property, and official college records, including transcripts and grades, will be withheld. Privileges will be reinstated once the debt is paid.

Tuition Payment Plan

Metropolitan Community College offers a payment plan to provide students the option of paying tuition and fees in installments over the course of the term. Students can sign up for the payment plan any time prior to the first installment due date by paying only a non-refundable fee and by identifying a preferred payment method for the automatic payments—either a payment card or bank account. Students who sign up for the plan after the first installment due date are required to pay the sign-up fee plus the first installment amount.

The payment plan divides the total balance owed by the student into equal installments and schedules the appropriate number of automatic payments, depending on the plan option chosen. The system recalculates payment plans daily to account for changes in enrollment (added or dropped classes), financial aid adjustments, or payments from the last 24 hours. Any student whose plan was updated that day receives an email notification of the new plan amounts.

On each installment due date, payments are automatically processed against the student-designated payment method (card or bank account). Students are assessed a late fee if their automatic payment fails and their installment remains unpaid.

Payment plans are available for the fall, spring, and summer terms. The number of plan installment options will vary by term.

Delinquent Accounts

Students who become delinquent on their account will receive ebills, paper statements, letters and calls informing them that they must pay their debt by a certain date or they will be turned over to outside collections. Transcripts, diplomas and/or enrollment are immediately restricted until the balance is paid in full. Budget friendly customized plans are available through Delinquent Accounts.

Placing with collections includes reporting the balance to the State of MO income tax intercept program and/or an outside collection agency. Students are responsible for all collections costs incurred at the collection agency.

Returned Checks

Checks returned insufficient funds by the banks are deposited a second time. If the check is returned again, your account is placed on restriction and is charged the amount of the check plus a \$25 fee. Students on restriction cannot enroll or receive grades or transcripts. You also lose check-writing privileges at MCC for one year. Any returned check not paid may involve outside collection actions.

District Residents 65 and Older

Any resident of the district who is 65 or older may attend classes on a space-available basis without paying tuition. Some classes require a lab or studio fee.

Refund Policy

To be eligible for a refund, students must officially drop their classes by the deadline in the Refund Schedule. Students may find the specific dates for the Refund Schedule in the Class Schedule each term. All refunds will first be applied to any debt the student owes to MCC.

Students receiving financial aid refunds should go online to myMCCKC for disbursement information.

Financial Aid

One goal of Metropolitan Community
College is to make higher education available
and affordable to all area residents regardless
of their personal finances. MCC students can
take advantage of a variety of grants, loans,
scholarships and part-time employment
programs to help pay for their education. The
federal government and state of Missouri fund
some of these programs, while others are
supported by contributions made to the MCC
Foundation Alumni Association, by private
citizens and civic organizations.

Information is available about student aid programs, their eligibility requirements, how to apply and what expectations and responsibilities recipients must meet. Access the MCC website (www.mcckc.edu), visit any of the campus financial aid offices, or call the MCC Information Center at (816) 604-1000.

Students completing the Free Application for Federal Student Aid (FAFSA) should use the following number for all MCC campuses: 002484. The FAFSA may be found on the web at www.fafsa.ed.gov.

To receive financial aid, you are expected to attend all classes on which the financial aid award is based. Award funds may be delayed if you do not attend the first class.

If you stop attending all of your classes before completing 60% of the semester, you will owe money back to federal aid programs.

Academic Information

Academic Standards

or each course taken for college credit, students earn grades that become part of their permanent records. Metropolitan Community College uses the following grading system:

- A Superior performance.
- **B** Highly satisfactory performance.
- **C** Satisfactory or average performance.
- D Unsatisfactory, but passing performance.
- **F** Failure; unsatisfactory performance.
- W Withdrawal from class. This grade is given to a student who has either withdrawn from class during the first 60% of the term (except during the 100% refund period) where there is no official withdrawal noted on the transcript) or who has been doing satisfactory work and was withdrawn during the last 40% of the term.
- S Average or satisfactory (C or above) performance for assigned work when a student chooses the satisfactory-unsatisfactory option (This option is discussed in the following section.)
- U Below average (D or F) performance for assigned work when a student chooses the satisfactory-unsatisfactory option. No credit or grade points are assigned. (The satisfactoryunsatisfactory option is discussed in the following section.)
- P Passing or better performance in continuing education or noncredit courses.
- Incomplete work. A student receives this grade when he or she has completed all but a small part of the required coursework. The instructor decides if there is an acceptable reason (for example, a serious illness) why he or she hasn't completed all of it. If the student makes up the work during the following semester, the instructor will change the incomplete to a letter grade. If the work isn't made up, the incomplete will become an F on the student's permanent record.
- **Au** Audit. A student may choose to audit a class but receive no credit for it. The decision to audit must be made at registration.

Grade Reports

Final grade reports can be accessed online at

myMCCKC

Audit

Students may elect to audit a course rather than receive a grade. Students must pay the regular fee, but are not expected to complete assignments or take tests. Class attendance is optional. To sign up for an audit, students must complete a form from the records office at time of enrollment.

Note: Financial aid is not available for audited classes.

Satisfactory-Unsatisfactory Option

Each semester, students may select one course to receive either a satisfactory or unsatisfactory mark rather than a traditional letter grade. If they do average or better work (A, B, or C), they receive an S. They receive a U for less than average work (D or F). Students may only apply 15 credit hours of S marks toward a degree.

To sign up for the satisfactoryunsatisfactory option, students must fill out a form from the records office before the end of the first quarter of the class.

Scholarship Points

These are number values assigned to each letter grade that help determine a student's grade point average.

	Scholarship Points
Grade	Per Credit Hour
A	4
В	3
С	2
D	1
F	0
W (withdrawal)	0
S (satisfactory)	0
U (unsatisfactor	y) O
P (passing)	0
Au (audit)	0

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Grade Point Average (GPA)

To determine a student's GPA, multiply the number of credit hours for each course by the number of scholarship points assigned to that grade. Add together the scholarship points from all classes and then divide that figure by the total number of credit hours attempted. When calculating GPA, do not include classes for which a student has received a W, P, I, S, U or Au or when duplicate courses have been repeated. The GPA does not include courses that have been excluded under academic forgiveness.

Repeating Classes

Students may repeat a class to try to improve their grades. Although all the grades earned in a particular course will be included on their MCC academic record, only the last grade will be used to determine GPA. Other colleges and universities may have different policies. There may be limits on the number of times a student may repeat the same class.

Final Exams

Final exams are given in all MCC classes, and students must take them. Toward the end of each semester, the administration at each MCC campus puts together a final exam schedule for all faculty members and students.

A student who has done satisfactory course work but who misses the final exam may be allowed to make it up if the instructor believes the reason for missing the exam was reasonable. However, if a student misses the exam and has no reasonable explanation for missing it, the instructor may give the student an F.

Students who can't take a final exam because of illness or another valid reason should take the following steps:

- Notify the instructor as soon as possible and provide a reason for their absence so the instructor can give them a grade of Incomplete (I).
- 2. Make up the final exam as soon as possible to remove the grade of Incomplete (I).

Grade Change

A change in a student's grade will be made only in extraordinary circumstances.

A grade change may be made by the instructor during the three instructional terms following the assignment of the grade. After this period, a grade change may be made only with the approval of the instructor and the dean of instruction.

When the instructor is unavailable or unable, the division chair may initiate a grade change with the approval of the dean of instruction and the president.

Honors

An honor student must be enrolled in six semester hours or more and have a semester grade point average of 3.5 or higher for all courses in which scholarship points were earned. Each campus also has its own special honors programs. For more information, contact the academic advisors or counselors at the appropriate MCC campus.

Satisfactory Academic Progress

Students must maintain a certain grade point average and progress toward degree or certificate completion in order to continue enrollment.

All Federal financial aid recipients and some other scholarship recipients must meet specific standards for satisfactory academic progress. Students are advised to become familiar with the requirements of their grants, scholarships, loans and/or aid. Access MCC's SAP Policy online at www.mcckc.edu/SAP

Academic Record

The college keeps an official academic record for each student, which includes the following:

- The student's cumulative record including directory information, a list of all the courses the student has been enrolled in, the grades and scholarship points for those classes, the number of credit hours the student has attempted and earned, the cumulative grade point average, honors earned by the student and degrees or certificates the college has awarded to the student.
- 2. The student's degree plan.
- The student's high school transcript and/ or transcripts from other colleges and universities.

All items are kept in compliance with federal and state regulations.

According to federal law, the only people who have access to student records are MCC faculty and staff members carrying out the business of the college. This includes those who maintain the student's records, counsel the student or provide academic advice.

Academic Intervention and Support

Students whose grade point average falls below 2.0 will be offered academic intervention and support. Students whose grade point average consistently remains below 2.0 even after academic intervention and support may be subject to additional intervention including academic restrictions, academic probation, and finally, academic exclusion for one semester.

Academic Renewal

Students may be eligible to have past poor academic performance excluded from calculation of current academic progress at MCC. Students requesting academic renewal may have grades earned at least five years prior to such a request eliminated from calculation of their current grade point averages at MCC. Other colleges and universities may have different policies. For more information and to complete the request form, contact an advisor at any MCC Campus.

Academic Integrity

MCC, as an academic community, expects all administrators, faculty, staff and students to behave as responsible members of the college community and to be honest and ethical in their academic work. To falsify or fabricate the results of one's research; to present the words, ideas, data, or work of another as one's own; or to cheat on an examination corrupts the essential process of higher education.

Students assume full responsibility for understanding and complying with MCC standards for academic integrity. If academic dishonesty is demonstrated, students may be subject to failure in an assignment, a course, or subject to even more severe consequences, including expulsion from MCC.

For more information on penalties and procedures related to academic dishonesty, see the Student Code of Conduct.

Transcripts

MCC will provide transcripts of a student's academic record after receiving a written or on-line request. Official copies of the transcript, which bear the MCC seal, will be sent directly to other colleges and universities. MCC charges no fee for providing transcripts requested.

Credit by Certification

Credit for noncollege experience may be given to entering freshmen and other students who meet certain certification guidelines. However, only experiences that relate specifically to a program offered by MCC will be eligible for certification credit.

Credit by Examination

Entering freshmen and other students may be given credit in certain subjects by passing examinations. Only 30 semester hours of credit may be earned this way.

Credit for Advanced Standing (Transfer Credit)

Transcripts from all previously attended colleges and universities must be submitted to the Student Data Center at 3200 Broadway, Kansas City, Missouri 64111. Any foreign transcripts must be translated and evaluated by an outside service, such as Educational Credential Evaluators. Inc. (www.ece.org). MCC accepts credit in transfer from regionally accredited institutions of recognized standing, both public and private. Transfer work will not be evaluated and posted until MCC has received official transcripts directly from the transferring school or in a sealed envelope. All courses taken at other colleges and universities become part of the student's permanent record. However, only courses equivalent to those in the student's MCC program will be applied toward an MCC degree or certificate. While the MCC GPA is used for a MCC degree or certificate, the transfer GPA will appear on the MCC transcript as a transfer GPA and included in the combined GPA. Note: Transfer work may impact financial aid eligibility.

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act of 1974 (FERPA) was enacted to protect student privacy and to provide for the right to inspect and review education records. More detailed information on MCC's FERPA policies can be found on page 22.

Attendance

The college expects students to attend every meeting of every course they're enrolled in. If attendance is a problem, MCC may dismiss a student from class for the following reasons:

- If a student has been absent for two consecutive weeks or the equivalent time period during a shorter term.
- If the student has missed one-third of sessions scheduled for the class that semester.

In some cases, due to the subject matter of the course, an instructor may enforce an even stricter attendance policy. However, if a student has a valid reason for being absent, he or she should consult with the instructor who may grant the student permission to make up the work.

Attendance-Financial Aid

To receive financial aid, you are expected to attend all classes on which the financial aid award is based. Award funds may be delayed if you do not attend the first class. If you stop attending all of your classes before completing 60% of the semester, you will owe money back to federal aid programs.

Dropping a Course

Students may drop classes at any time throughout the semester, however, they must officially withdraw from classes by dropping the class through myMCCKC. During the 100% refund period of the class a withdrawal removes the class from the transcript. After this timeframe, a withdrawal assigns a W to the class. During the last 40% of the term students who withdraw will receive a W if they're passing the class or an F if they're failing. Withdrawn classes are counted as attempted hours for financial aid.

NOTE: Students are responsible for withdrawing from courses they stop attending.

Withdrawal from College

Students who want to withdraw from all classes before the end of the semester should officially withdraw by dropping their classes through myMCCKC. The date the withdrawals are processed becomes the official date of withdrawal on a student's permanent record. That date may determine the student's semester grades. If a student withdraws from a class during the last 40% of the semester and he or she is doing unsatisfactory work, then the recorded grade will be an F.

Students who receive federal or state financial aid, including loans:

If you stop attending all of your classes before completing 60% of the semester, you'll owe money back to the federal aid program(s).

Students are responsible for withdrawing from classes they stop attending. A student who fails to officially withdraw might receive an F for the class.

Student Load

A full load is carrying at least 12 credit hours during the fall and spring semesters and at least six hours during the summer term. However, if students want to complete 62 credit hours and earn an associate's degree in four semesters, they must take 15 or 16 hours each semester. For some programs requiring more than 62 credit hours, students may need to take 18 hours each semester.

Students with unsatisfactory academic records may be limited to taking less than a full load. However, students with superior records may receive permission to carry more than 18 hours.

Student Conduct

Metropolitan Community College expects students to conduct themselves in a manner appropriate for an educational setting. This includes complying with federal, state and municipal laws prohibiting certain activities in general and others that pertain to public school property and college-sponsored functions. Students who act inappropriately or who show disruptive behavior may be disciplined by MCC as well as face criminal charges.

Weapons including firearms, whether visible or concealed, shall not be permitted on district facilities or at district events. No person shall possess or carry any weapon as defined in Section 571.010, RSMo. including a firearm, whether concealed or visible, on district property. This prohibition shall also apply to vehicles on district property unless any such vehicle is operated by a commissioned police officer.

In addition to demonstrating honesty and integrity, students are expected to comply with all policies, regulations and procedures of Metropolitan Community College. They should follow the college traffic code and the directions of all college representatives acting in an official capacity.

For more complete information about the Student Code of Conduct, please consult PRP7.35010 in the Metropolitan Community College manual of Policies, Regulations, and Procedures, which is available online, or from the office of the dean of student development.

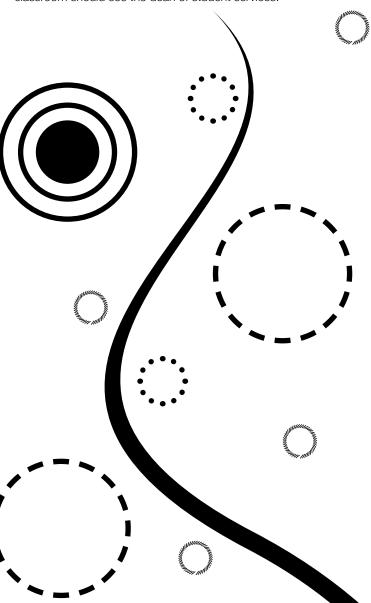
Student Disciplinary Procedure

A student who is charged with misconduct which requires disciplinary action will be required to meet with the appropriate dean. The student may request a hearing by committee. This request is made through the dean of student services. The committee will determine if the misconduct charge is justified and if disciplinary action is appropriate. The committee also may recommend to the college president how the student should be disciplined.

Student Grievances

According to MCC regulations and procedures, a student who has complaints about a course should first talk with the instructor or instructors involved. If the issue cannot be resolved, then the student should go to the appropriate division chairperson. If the student is still not satisfied, then he or she should discuss the situation with the dean of instructional services. If the problem persists at this level, then the dean of instructional services will appoint a faculty committee to resolve the issue.

Students who have complaints about issues outside the classroom should see the dean of student services.



Student Services

Academic Advising

Academic advisors are available to assist students with selecting classes and creating schedules each semester or term as needed. Advisors help students access MCC programs and services. They are also familiar with the academic programs and transfer requirements of the colleges and universities to which MCC students transfer. They provide valuable assistance to students throughout their stay at MCC.

For those interested in transferring, the counseling or development center has large catalog collections from four-year colleges and universities as well as information about requirements needed for specific programs at other area institutions.

Student Employment Services

Make the connection between school and work with Student Employment Services. This office provides resource materials, computers, and expert advice on resumes, cover letters and interview questions. Preparing for the next career step is important and SES Coordinators are available to make individual appointments to assist with students' unique situations.

Opportunities on Project HIRE, the MCC Internet job bank, are easily accessed at www.projecthire.net and includes links to Kansas City's largest employer web sites. Watch for campus career fairs, a great way to network with company representatives, along with internships; available throughout the year. SES also helps students looking for work on-campus whether it is for Federal Work Study or regular student jobs, a convenient way to go to school and earn extra money.

Students should consider visiting their closest MCC-Student Employment Services office before graduation to help with job decisions.

Counseling

MCC's professional counselors are available to assist students with their career, educational, and personal concerns. Students may schedule individual conferences with counselors.

As part of the enrollment process at MCC, students can talk with a counselor who will help them select a program of study that best fits their interests, values and career goals. Then, throughout their stay at MCC, the college encourages them to meet regularly with their counselors or advisors to further discuss their educational progress and future plans. Inventories that help students assess their skills, interests, values and personality style for career planning purposes are available through the counseling or development center.

Support Services

Child Care Centers

So parents with small children can attend classes, MCC provides child care centers at MCC-Maple Woods and MCC-Penn Valley. Educational programs are also available for children age two-and-a-half to five. For more information, call the centers:

MCC-Maple Woods (816) 604-8780 MCC-Penn Valley (816) 604-4140

Every full-time staff person at the child care centers is trained in early childhood education. MCC-Penn Valley offers its own program in Child Growth and Development. Call (816) 604-4539 to learn more about the program.

Parking

A parking sticker is required to park on campus. Obtain a free sticker at the campus Public Safety Office or at an information desk on the campus.

Textbooks and College Bookstores

MCC provides a bookstore at each of the district campuses. These stores are operated according to guidelines and policies approved by the Chancellor and the Board of Trustees.

Book costs are determined by the publishers of each title and MCC uses an industry standard markup on new textbooks to cover the costs of operating the bookstores. A full-time student should expect to pay \$300-\$700 per semester for textbooks. At the end of each semester, the bookstores hold a textbook buyback where texts being used for the next semester may be purchased from the student for approximately 50% of the new text price. Those texts will then be available for students to purchase for the next semester.

In an effort to control the rapidly rising costs of textbooks, MCC has implemented a textbook rental program for selected classes using a tiered pricing structure. Students may rent a book, use it for the semester and return it in resalable condition to the bookstore before the posted deadline. Check with each store to see which classes have rental textbooks available.

For more information regarding MCC's bookstores and their policies, go to **www.bookstores.mcckc.edu**

College Libraries

Metropolitan Community College (MCC) libraries provide a variety of resources and services to assist students in their research needs. More than 70 online databases provide access to magazine, journal, and newspaper articles, plus reference information on current events, careers, law, health, history, science, business, literature and more. These databases may also be accessed by students from computers off-campus.

Each library has a collection of books and periodicals for class work, research, and leisure reading; video, and audio. Students attending one campus can use materials from any of the other MCC libraries. Borrowing procedures are similar on all campuses.

The MCC libraries belong to MOBIUS (Missouri Bibliographic Information User System), a consortium of over 60 academic libraries in the state. Through MOBIUS, library users have access to over 18 million items.

Our local MOBIUS cluster is WILO (Western Inter Library Organization), which is made up of the libraries of MCC, Avila, Kansas City Art Institute, Midwestern Baptist Theological Seminary, Rockhurst, St. Paul School of Theology, and William Jewell. Books from these libraires can be obtained using your library card or through the library interlibrary loan service.

The library staff includes professional librarians who provide assistance in reference and research. The libraries offer computers for access to the databases, the book catalog, and the Internet, as well as space for individual study or research.

More information is available at the MCC Library website, which is located at http://mcckc.edu/library. Individual campus libraries can also be accessed through this site. Reference assistance is also available online through "Reference Librarian Chat."

Computer Lab Services

All MCC campuses provide computer labs for student use — including Internet access — although some are restricted to specific programs such as math and science. Check with each campus for more information about hours of operation and available services.

E-mail Access

All MCC students taking classes for credit will be given an e-mail address and have access to e-mail messages. This allows them to electronically communicate with instructors, other students, MCC's many student service providers, and others. A copy of the student e-mail policy is available at **www.mcckc.edu.**

Disability Services

Each MCC campus is served by a Disability Support Services (DSS) office that provides assistance for eligible students who have a documented disability as defined by the Americans with Disabilities Act. This may include, but is not limited to, students with learning disabilities, attention deficit disorder, physical impairments, hearing or vision loss, psychiatric diagnosis, and brain injuries. All services provided by the MCC DSS Offices are individualized based on each student's documentation and specific needs. Please make requests for support services as early as possible as some accommodations require extended periods of time to obtain. For more information, or to make an appointment, call:

MCC-Blue River (816) 604-6651 MCC-Business & Technology(816) 604-3192 MCC-Longview (816) 604-2254 MCC-Maple Woods (816) 604-3192 MCC-Penn Valley (816) 604-4293

For relay calls, dial 711.

For more information, visit the MCC website at:

www.mcckc.edu/access.

ABLE Program

The ABLE program (Academic Bridges to Learning Effectiveness), offered at Longview, provides a more intensive level of services for students with Learning Disabilities (LD), Traumatic Brain Injuries (TBI), autism spectrum disorders (ASD) and other neurological diagnoses to help students make the transition into college. A learning disabilities specialist works individually with each student to design a program that fits his or her needs. The student also takes special courses to learn basic skills, communication skills, and college survival strategies.

By providing a structured curriculum, as well as extra counseling and academic support, the ABLE program gives students a solid foundation for success. Additional fees are charged for students opting to enroll in this program. For information about ABLE, call (816) 604-2053.

Visit the ABLE website at

www.mcckc.edu/able

Learning Assistance Centers

Each campus has a learning assistance center or teaching/ learning center where students can receive individual or small-group tutoring for many of their courses. Daily labs are scheduled to provide help with writing, math and accounting either on a walk-in basis or by appointment. Math study groups and computer-assisted instruction are also available.

Other noncredit services are offered to help students improve their study skills. These include listening and note-taking, reducing test anxiety, test-taking strategies and research paper pointers. All of these services are provided free to currently enrolled students.

Reading Centers

Reading centers also offer MCC students services such as diagnostic testing, tutoring and special classes. These reading classes range from basic skill building in word recognition and spelling to advanced levels of critical and speed reading. Programs can be designed to fit a student's special needs. For more information about MCC's reading study centers, call the following campuses:

MCC-Blue River (816) 604-6770 MCC-Longview (816) 604-2665 MCC-Maple Woods (816) 604-3309

www.mcckc.edu/tutoring

Reentry Programs

For adults who have been away from school for several years, MCC has special reentry programs to make the transition from working or homemaking back to the classroom as easy as possible. Reentry students receive individual attention from counselors and advisors and referrals to special MCC services. For instance, the Reentry Center at Longview provides a place to connect with other adult students, have a hot beverage, and get answers to questions from the Reentry staff. Some campuses also offer a four-credit section of ENGL 101 designed to make the transition to college easier by teaching composition as well as college success skills. At all campuses, a counselor oversees a special tuition and child care grant program for single parents and displaced homemakers.

To find out more about these programs, call the campuses at the following numbers:

MCC-Blue River (816) 604-6568 MCC-Longview (816) 604-2294 MCC-Maple Woods (816) 604-3095 MCC-Penn Valley (816) 604-4089

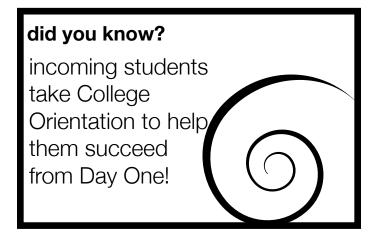
Project Success

The Student Support Services program (SSS) at Penn Valley is one of the Federal TRIO programs funded through the U.S. Department of Education. SSS is appropriately called Project Success on the Penn Valley campus. Project Success is designed to encourage the success of 250 low-income, first generation college students or persons with a documented disability each academic year by providing:

- · academic tutoring that supplements the classroom experience,
- transfer coordination to expose the participants to the opportunities that await them at four-year colleges and universities,
- counseling to provide academic assistance and assist with managing the daily stress,
- cultural enrichment to extend the social dimensions of the participants served,
- workshops to teach and/or strengthen skills needed for success.

These expanded services increase the likelihood of success. Call the Project Success office, (816) 604-4313, to schedule an appointment or visit its web site:

www.mcckc.edu/pennvalley/success



Campus Life and Leadership

The mission of Campus Life and Leadership is to complement the academic program and enhance the sense of community on campus. This goal is accomplished by providing opportunities for students to develop, implement and participate in social, cultural, intellectual, recreational, governmental, and community service programs and events. These co-curricular experiences provide students with leadership skills that can be utilized in future educational, community and professional work environments.

Campus Life and Leadership also sponsors leadership and other activities throughout the year. For specific clubs and organizations, opportunities for involvement or how to start a club or organization, contact the Office of Campus Life and Leadership at your campus.

Athletics

MCC offers students the chance to participate in intramural sports and recreational sports. In addition, four campuses are involved in intercollegiate athletics. As members of the Region XVI National Junior College Athletic Association (NJCAA), MCC-Longview and MCC-Maple Woods field baseball teams. MCC-Longview also competes in volleyball and cross-country for women, while MCC-Maple Woods offers women's softball. MCC-Penn Valley, which is a member of the Greater Kansas City Community College Conference and NJCAA, has men's and women's basketball teams. In addition, MCC-Blue River and MCC-Maple Woods offer men's and women's soccer.

Fitness Centers

The MCC campuses have fitness centers. Students pay a small fee to use the centers each term. All feature excellent equipment, locker rooms, towel service, fitness coordinators and a variety of fitness, aerobics and wellness classes. In addition, the MCC-Longview recreational center includes a huge swimming pool. Since each campus has its own use and operating procedures, please call the following numbers for more information.

MCC-Longview (816) 604-2400 MCC-Maple Woods (816) 604-3555 MCC-Penn Valley (816) 604-4222

Kansas City Area Student Exchange

If MCC doesn't offer a course a full-time student (one enrolled in at least 12 credit hours) wants to take, then he or she may enroll in that course at another area college without paying additional fees. The following area colleges belong to the Kansas City Area Student Exchange (KCASE): Avila College, Kansas City, Mo.; Kansas City Art Institute, Kansas City, Mo.; Park College, Parkville, Mo.; Rockhurst University, Kansas City, Mo.; and the University of Missouri-Kansas City, Mo. Contact the admissions and records office at any of the MCC campuses for more information.

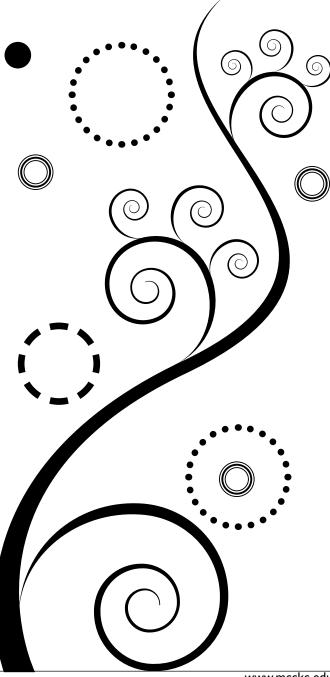
Educational Opportunity Center (EOC)

The Educational Opportunity Center provides prospective college students with college selection and admissions guidance, scholarship search, assistance in completing the Free Application for Federal Student Aid (FAFSA), career counseling, default student loan counseling, and GED referral and placement. Students already enrolled in college may also take advantage of these services. All services are free.

The EOC is funded by the U.S. Department of Education. The center is located at 3100 Main, Suite 100, Kansas City, MO 64111. For more information about EOC or to make an appointment with a counselor or advisor call (816) 604-4400.

Cancellation of Classes

The campuses may find it necessary to cancel classes because of insufficient enrollment or other circumstances. Whenever possible, a class will be cancelled before the first meeting and enrolled students will be notified. If a suitable alternate course isn't available, students will receive a complete refund of tuition and fees for the canceled courses.



www.mcckc.edu

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General Information

Compliance With Federal Laws and Regulations

Certification of Accuracy

I certify that the statements in this catalog are a true and accurate representation of the policies of Metropolitan Community College.

Mark S. James Chancellor

Nondiscrimination

This public "NOTICE of NON-DISCRIMINATION" is required by several federal laws and regulations including those implementing Title VI, Title VII, Title IX, Americans with Disabilities Act, Section 504 and the Age Discrimination Act. This notice serves to inform all members of the Metropolitan Community College faculty, staff, student body and guests, that Metropolitan Community College prohibits discrimination on the basis of race, color, religion, sex, sexual orientation, age, birth, ancestry, national origin, or disability in admissions; educational programs, services, or activities; and employment. Following are the applicable federal and state Civil Rights laws that prohibit discrimination:

Title I of the Americans with Disabilities Act of 1990 prohibits employment discrimination against qualified individuals with disabilities by employers with 15 or more employees. The

U.S. Equal Employment Opportunity Commission and the Office for Civil Rights are the agencies assigned to enforce Title I of the ADA.

Title II of the Americans with Disabilities Act of 1990 prohibits disability discrimination by public entities, including public colleges and universities whether or not they receive federal financial assistance. The Office for Civil Rights (U.S. Department of Education) is the law enforcement agency charged with enforcing Title II of the ADA.

Title VI of the Civil Rights Act of 1964 prohibits discrimination on the basis of race, color, or national origin in any program or activity receiving federal financial assistance. Programs and activities that receive federal financial assistance from the United States Department of Education are covered by Title VI. The Office for Civil Rights (U.S. Department of Education) is the law enforcement agency charged with enforcing Title VI.

Title VII of the Civil Rights Act of 1964 protects individuals against unlawful employment practices based on their race, color, sex, and national origin. The Civil Rights Act of 1991 significantly extended plaintiffs' rights under Title VII. The U.S. Equal Employment Opportunity Commission is the law enforcement agency charged with enforcing Title VII.

Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in education programs or activities and extends to employment and admission to institutions that receive federal financial assistance. The Office for Civil Rights (U.S. Department of Education) is the law enforcement agency charged with enforcing Title IX.

Age Discrimination Act of 1975 protects people from discrimination based on age in programs or activities receiving federal financial assistance. The U.S. Equal Employment Opportunity Commission is the law enforcement agency charged with enforcing the ADA of 1975.

Age Discrimination in Employment Act of 1967 protects individuals who are 40 years of age or older. The U.S. Equal Employment Opportunity Commission is the law enforcement agency charged with enforcing the ADEA.

Civil Rights Act of 1991 provides monetary damages in cases of intentional employment discrimination. The U.S. Equal Employment Opportunity Commission is the law enforcement agency charged with enforcing the CRA of 1991.

Equal Pay Act of 1963 protects men and women who perform substantially equal work in the same establishment from sex-based wage discrimination. The U.S. Equal Employment Opportunity Commission is the law enforcement agency charged with enforcing the EPA.

Section 504 of the Rehabilitation Act of 1973 protects people from discrimination in admission, employment, treatment, or access based on disability in programs or activities receiving federal financial assistance. The Office for Civil Rights (U.S. Department of Education) is the law enforcement agency charged with enforcing Section 504.

Executive Order 11246 requires certain government contractors to engage in affirmative action and to not discriminate based on race, sex, or national origin. The Office of Federal Contract Compliance Programs (U.S. Department of Labor) is the agency charged with enforcing EO 11246 and ensuring that federal contractors are in compliance.

COLLEGE NONDISCRIMINATION STATEMENT:

The College's nondiscrimination statement, cited below, prohibits discrimination and harassment against individuals based on characteristics protected under federal and state law, as well as on the basis of sexual orientation. The college also prohibits retaliation based upon reporting of such violations.

Metropolitan Community College is committed to a policy of nondiscrimination on the basis of race, color, religion, sex, sexual orientation, age, birth, ancestry, national origin, or disability in admissions; educational programs, services, or activities; and employment; as specified by federal laws Title VI; Title VII; Title IX, section 504; the Americans with Disabilities Act; and state laws and regulations.

Federal citations:

The regulations implementing Title VI, Title IX, Section 504, the Age Discrimination Act, and Title VII contain requirements for recipients to issue notices of nondiscrimination. 34 C.F.R. Sections 100.6(d), 106.9, 104.8, 110.25, 41 C.F.R. Sections 60-1.42(a), respectively. The Title II regulation also contains a notice requirement that applies to all units of government, whether or not they receive federal aid. (See 28 C.F.R. Section 35.106.)

MCC is an equal-opportunity employer.

Inquiries concerning MCC's compliance may be addressed to the following persons:

MCC District

Kathy Walter-Mack, Chief of Staff, Associate Vice Chancellor of Human Resources, 3200 Broadway, Kansas City, Missouri 64111-2429; telephone (816) 604-1587

MCC-Blue River

Jon Burke, Dean of Student Development, 20301 E. 78 Highway, Independence, Missouri 64057-2053; telephone (816) 604-6620

MCC-Business & Technology

Karen Moore, Dean of Student Services, 1775 Universal Avenue, Kansas City, Missouri 64120-1318; telephone (816) 604-5229

MCC-Longview

Karen Goos, Dean of Student Development, 500 SW Longview Road, Lee's Summit, Missouri 64081-2015; telephone (816) 604-2326

MCC-Maple Woods

Shelli Allen, Dean of Student Development, 2601 NE Barry Road, Kansas City, Missouri 64156-1299; telephone (816) 604-3175

MCC-Penn Valley

Yvette Sweeney, Dean of Student Services, 3201 Southwest Trafficway, Kansas City, Missouri 64111-2764; telephone (816) 604-4114

Inquiries may also be addressed to the Director, Office for Civil Rights, Department of Education, 8930 Ward Parkway, Suite 2037 Kansas City, MO 64114 telephone (816) 268-0550

Tobacco-Free

Metropolitan Community College is committed to providing a safe and healthy environment for all students, employees, contractors, and visitors. As a result of this commitment, the use, advertising, or sponsorship of tobacco and tobacco substitute products, excluding cessation products, on all campus premises, leased property, and college-owned vehicles is prohibited, with no exceptions. This policy applies to all students, employees, tenants, subtenants, contractors, and visitors. For additional information on Tobacco-Free MCC go to http://mcckc.edu/tobaccofree

Right to Know

MCC complies with the provisions of "The Crime Awareness and Campus Security Act of 1990." A provision of this act requires higher education institutions to provide students an annual report that contains occurences of criminal offenses and arrests on campus and adjacent public property. This report is available at www.mcckc.edu/crimereport. html website. For a printed copy, please call (816) 604-1436 or stop by the campus public safety offices.

Student Consumer Information

The Higher Education Opportunity Act of 2008 (HEOA) requires that postsecondary institutions participating in federal student aid programs make a variety of disclosures to students. Many of these disclosures are listed in this catalog on the following pages:

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Page14
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Additional required student consumer information can be found on the MCC website at http://www.mcckc.edu/StudentConsumerInfo.

You may request information from the MCC Information Center at (816) 604-1000.

Americans with Disabilities Act

Metropolitan Community College complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act which prohibit discrimination in admission or access to its programs based on disability. Each MCC campus has an Access Office that provides special services for students with documented disabilities. Arrangements can be made for aids and adjustments to help ensure equal access to programs and services. The campus Access Office also has information regarding the existence and location of services, activities, and facilities that are accessible to and usable by persons with disabilities.

Inquiries may be addressed to:

MCC-Blue River

Access Counselor, 20301 E. 78 Highway, Independence, Missouri, 64057-2023; Telephone: (816) 604-6651

MCC-Business & Technology

Access Resource Educator, 2601 NE Barry Road, Kansas City, Missouri, 64156-1200 Telephone: (816) 604-3192

MCC-Longview

Access Resource Educator, 500 SW Longview Road, Lee's Summit, Missouri, 64081-2015; Telephone: (816) 604-2254

MCC-Maple Woods

Access Resource Educator, 2601 NE Barry Road, Kansas City, Missouri, 64156-1200 Telephone: (816) 604-3192

MCC-Penn Valley

Access Resource Educator, 3201 Southwest Trafficway, Kansas City, Missouri, 64111-2764: Telephone: (816) 604-4293

For relay calls dial 711.

Sexual Harassment

Metropolitan Community College strongly believes that the classroom and workplace should be free of sexual harassment, including unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct or communication of a sexual nature. Sexual harassment will not be tolerated either in the classroom or in the workplace. Sexual harassment is prohibited by Federal and State law as well as Board of Trustee Policy. Anyone found to be in violation of such laws or policy will be subject to serious disciplinary action, including expulsion and termination. If you have questions or believe that you have been subjected to sexual harassment, you should contact the college counseling department or the dean of students office listed on page 21.

Student Rights Under the Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records.

- 1. The right to inspect and review the student's education records within 45 days of the day the College receives a request for access. Students should submit to the Dean of Students or the Office of the Registrar/Enrollment Manager ("College Official") a written request that identifies the record(s) they wish to inspect. The College Official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College Official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- 2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or in violation of the student's right to privacy. Students desiring an amendment to their education record should write the College Official responsible for maintaining the record, clearly identify the part of the record they want changed, and specify why it is inaccurate, misleading, or in violation of the student's privacy.
- 3. The right to a hearing regarding the request for an amendment of the student's education records. If the College decides not to amend the record as requested by the student, the College must notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- 4. The right to prevent the College's disclosure of the student's personally identifiable information from the student's education records in most circumstances. The College must obtain the written consent of a student before disclosing that student's personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. Where required, a student's consent must specify the records to be disclosed, the purpose of the disclosure, and the party or class of parties to whom disclosure may be made. FERPA contains the following exceptions allowing a College to disclose a student's personally identifiable information:
- a) Disclosure to school officials with legitimate educational interests is permitted without a student's written consent. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted institutional services or functions that the College would otherwise use employees to perform (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

A school official must be under the direct control of the institution with respect to the use and maintenance of information from education records.

- b) Disclosures to parents are permitted in three situations. First, disclosure of a student's personally identifiable information to parents is permitted absent a student's written consent in the event of a health or safety emergency. The College may disclose education records in an emergency if the College determines that there is an articulable and significant threat to the health or safety of the student or other individuals. Second, disclosure of a student's personally identifiable information is permitted to parents of the student if the student is a dependent pursuant to Section 152 of the Internal Revenue Code of 1986 and notice is given to the student that a parent has requested such information. Third, disclosure of a student's personally identifiable information to parents is permitted without the student's written consent if the student is under 21 and has violated a law or College rule or policy governing alcohol or controlled substance consumption.
- 5. The right to opt out of the disclosure of directory information. Pursuant to FERPA, the College has classified certain personally identifiable information as directory information. Metropolitan Community College defines directory information as the student's name, address, telephone number, e-mail address, photos, date of birth, place of birth, class, major field of study, dates of attendance, full time/part time status, degrees, honors, and awards received, participation in officially recognized activities and sports, physical traits of athletes, and the most recent previous educational institution attended by the student. Students who wish to restrict the release of directory information must submit the appropriate form to the Office of the Registrar/Enrollment Manager during the first week of each academic term. This form can be found on the College's website. at the Dean of Students' Office or at the Office of the Registrar/ Enrollment Manager. Upon receipt of such request the Office of the Registrar/Enrollment Manager will designate that the student's directory information is confidential and not to be released outside the College except to individuals, institutions, agencies and organizations authorized in the Act. The College will honor all requests to withhold any of the categories of directory information listed above but cannot assume any responsibility to contact the student for subsequent permission to release information. Nondisclosure will be enforced until the information is subsequently released by the student. A student may not, however, opt-out of disclosure of the student's name, institutional e-mail address, or electronic identifier in the student's classroom. Regardless of the effect on the student, the College assumes no liability for honoring the request of the student to restrict the disclosure of directory information.
- 6. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Metropolitan Community College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, DC 20202-5920

Nonimmigrant Alien Students

Metropolitan Community College is authorized under Federal law to enroll nonimmigrant alien students.

Drug Free Schools and Communities Act

Metropolitan Community College subscribes to the Drug Free Schools and Communities Act. Board policy expressly forbids the possession, use and/or distribution on college premises of alcohol, illegal drugs and all other controlled substances. Metropolitan Community College will distribute annually to all students and employees information about its drug prevention program, including information relative to college sanctions for violation of the board policy, legal sanctions, health risks and drug and alcohol counseling, treatment and/or rehabilitation programs.

Workforce Development & Business Consulting Services

Short-Term Training for Jobs

MCC is committed to training and developing Kansas City's workforce. Our open enrollment classes provide job-ready training—whether you're looking to start in a new career or further your skills in your chosen field, we can help. Our research team determines where the jobs really are and who's hiring as we develop our courses. We offer convenient, short-term scheduling, and many of our courses can be completed in less than 12 weeks. Online courses are also available. We focus on the technical and personal skills employers want. Our industry-experiences instructors and up-to-date course content is just what you need to get ready for work.

We offer:

Healthcare

- Pharmacy Technician
- Phlebotomy
- Certified Nurse Assistant (CNA)
- Certified Medication Technician (CMT)
- CNA and CMT Challenge Examinations
- Insulin Administration
- Certified Restorative Nurse Assistant (CRNA)
- Level I Medication Aide
- Mental Health Technician
- Central Services/Sterile Processing
- Health Unit Coordinator
- Hospice and Palliative Care
- Medical Interpreter Programs
- OSHA for Health Care

Information Technology

- CompTIA A+ certification
- CompTIA Net+ certification
- Microsoft Office Applications
- Microsoft Office Specialist (MOS)
- Microsoft IT Academy Network, Systems, Web (online)
- Web Development

Education

- 50+ programs
- Child growth and development

Safety

- OSHA Training Institute Education Center
- Environmental Health & Safety

Technical Skills

- Welding
- Gas Utility Technician
- Customer Contact Professional
- Machining (Manual/CNC)

Transportation

- CDL-A Truck Driver Training
- Certified Logistics Associate
- Certified Logistics Technician
- Introduction to Supply Chain ERP systems
- Security Issues in Supply Chain Management
- GIS for Supply-Chain Risk Management

Community Education

MCC-Blue River

(816) 604-6518; mcckc.edu/brcommed

- Driver's education
- Certified Physical Agility Testing for Fire
- Continuing Education Units

MCC-Longview

(816) 604-2030; mcckc.edu/lvcommed

- ACED (classes for adults with developmental disabilities)
- Adult leisure classes
 - o Personal interest
 - o Foreign language
 - o Computer/technology
 - o Health/fitness
- ed2go online classes
- Flights of Fancy kite festival
- Reading Horizons (one-on-one reading tutoring)

MCC-Maple Woods

(816) 604-3011; mcckc.ed/mwcommed

- College Experience for Adults with Developmental Disabilities
- Ed2Go online classes
- Free Introductory Computer Classes
- Kansas City Storytelling Celebration
- Motorcycle safety training and repair maintenance
- Professional development

Community Education:
Leisure and Lifelong Learning
MCC Community Education offers lifelong learning
opportunities for the enrichment, education and
enjoyment of our neighbors.

Contract Training for Companies

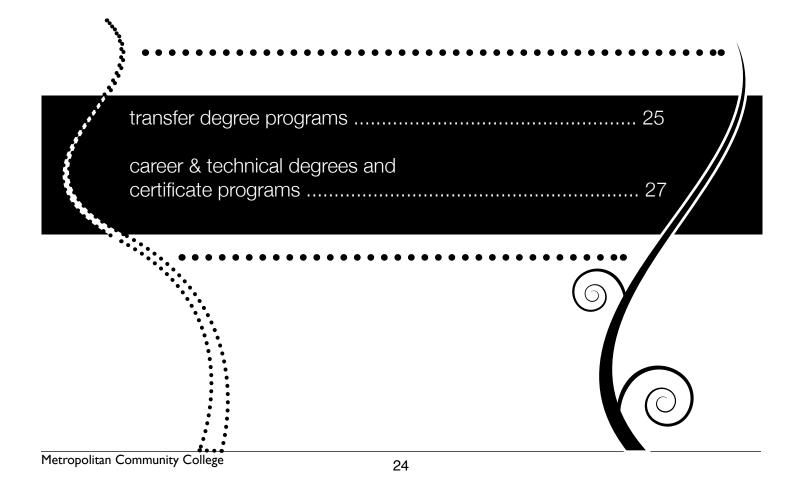
MCC's Institute for Workforce Innovation has been ranked in the Top 25 Area Consulting Firms by the KCBJ two years in a row. For more than 25 years, MCC has served Kansas City's workforce needs, providing customized training and consultative services. We believe in improving performance from the ground up—people, processes, even the workplace environment to maximize your company's productivity. Our performance consultants are experts in their fields, bringing a real-world value that is relatable to both front-line workers and executives alike. The Institute can customize a solution to meet your company's needs with a variety of delivery options available, including on-site training, online courses and state-of-the-art labs at any of our convenient locations. We offer:

- Assessment
- Call Center Training
- Casino Employee Training
- CNC Training
- Database Solutions
- Employee & Team Training
- Environmental Health & Safety
- Gaming & Hospitality Training
- Green Solutions

- Healthcare Consulting & Training
- Human Resources
- Learning Management
- Manufacturing Technology
- OSHA Training Institute Education Center
- State Training Funds
- Quality Management
- Virtual CNC Training
- Virtual Safety Manager

Missouri State Funding

MCC has partnered with the Missouri Division of Workforce Development to assist companies in applying for state training funds and offer programs designed to meet company needs. These programs are designed to facilitate training and financially assist employers who are expanding their workforce, locating a new facility in the state or relocating a company to Missouri. The training available is as diverse as the companies serviced. Industry sectors MCC has served in the past include: healthcare, animal health, manufacturing, energy and green technology, information technology, and transportation and logistics. Whether your company is new, expanding or retraining, we have a program that can grow your bottom line and your next-generation workforce.



Transfer Degree Programs

Degrees

Metropolitan Community College awards degrees that can be transferred to a four-year college or university. They are:

Associate in Arts

Associate in Arts Business

Associate in Arts Criminal Justice

Associate in Arts Teaching

Associate in Computer Science

Associate in Engineering

Associate in Science

These transfer degree programs are described on the following pages.

NOTE: Transfer requirements vary for different majors and/or for different four-year colleges and universities. In some cases, an associate degree equals the first two years of a bachelor's degree, while in other cases, an associate degree may not be necessary to transfer. Therefore, it's very important for students to meet with an advisor or counselor early on to make sure they're enrolling in classes that will transfer. Students are also encouraged to select as soon as possible the four-year college or university where they'll complete their bachelor's degree as well as their major area of study.

Degree Graduation Requirements

Credentials

Each graduation candidate must have on file in the admissions office the following documents.

- 1. A transcript of all high school work or scores from the General Education Development (GED) Test or state-required documentation for home-school graduates.
- 2. Transcripts of all prior college work.

NOTE: High school transcripts are not required from students who have successfully completed 15 semester hours of credit at another accredited college or university.

Scholarship

Each graduate must achieve a minimum MCC 2.0 grade point average on a four-point grading scale.

Enrollment

Each graduate must meet one of the following requirements:

- 1. They must complete at least 15 credit hours at an MCC campus and be enrolled during the academic year they qualify for a degree.
- 2. They must complete a minimum of 56 credit hours at an MCC campus if they are not enrolled during the academic year they qualify for a degree.

Total Credits

Each MCC graduate must be successfully complete at least 62 credit hours, although some degrees require more. (See specific requirements on the following pages.) Students earning any of the five associate degrees offered by MCC must take several general education courses. For the Associate in Arts degree, at least 62 credits are required -- 42 of them in general education courses and 17 hours in electives. The Associate in Computer Science, Associate in Engineering, and Associate in Science also require an area of specialization. In addition to these general education and specialization courses, students must take electives that will bring their total number of credits up to the amount required for the degree. Only courses numbered 100 or higher can be applied toward the degree.

Students who plan to earn a bachelor's degree in certain fields, such as education or nursing, are required to take very specific courses. MCC has negotiated many transfer and articulation agreements with four-year universities and colleges that outline a specific program of study for successful transfer. Students should meet with an advisor or counselor for transfer information and assistance in selecting the right classes. Similarly, students who transfer to MCC from another accredited college or university are encouraged to meet with an advisor or counselor to determine how many of their previous credits will transfer and which classes they will still need to take. Visit MCC's website at www.mcckc.edu for more information.

State Requirement

Missouri law states that all college or university graduates should complete a course covering the federal and state constitutions as well as American history and government. Students who transfer from our-of-state schools should check with the MCC counseling or development center to find out how they can meet this requirement.

Application for a Degree

The semester before completing all of their degree requirements, prospective MCC graduates must file an application for receiving their degrees with the admissions/records office. Once the form is filed, students will receive an evaluation and additional information. Visit the admissions/records page at www.mcckc.edu for more information.

The Associate in Arts Degree

MCC's Associate in Arts degree generally provides the first two years of college work a student might complete at a four-year college or university. The program includes 42 hours of general education courses, as well as enough electives to reach the required 62 credit hours.

Students who plan to earn an Associate in Arts degree should meet with an advisor or counselor to make sure they're taking the right classes. This degree prepares them for further study in any of the following areas:

Art Mass Communications

Biology Mathematics
Business Music
Chemistry Nursing
Criminal Justice Philosophy

Economics Physical Education

Education Physics

English Political Science
Foreign Language Psychology
Geography Social Work
Geology Sociology

History Speech and Theater Arts Human Services Teacher Education

Journalism

Degree Requirements

To receive an Associate in Arts degree, students must complete the following:

- 1. The graduation requirements for transfer degrees listed on page 26.
- 2. The general education requirements listed below.
- 3. Sufficient electives to bring their total number of credits to 62.
- 4. COLL 100 First Year Seminar

General Education Requirements

The general education courses strengthen students' basic skills and provide them with knowledge to competently function in a variety of environments- school, work and day-to-day life. MCC's general education outcomes provide students with opportunities to cultivate competencies in effective communication and critical thinking; value learning as an ongoing, lifelong process; acquire quantitative literacy skills; understand the principles of natural and physical sciences; appreciate the human condition through the study of humanities; and achieve an awareness of social, political, and behavioral environments. For more information, go to

http://mcckc.edu/gened

American Institutions-6 credits

Rationale: The American Institutions requirement will enable students to understand and participate in the political institutions of the United States and Missouri, and to critically evaluate relationships among cultural, historical, and social environments. Such study will also enhance students' communication, critical thinking, and problem solving skills.

Complete two courses from the following:

(One must be HIST.)

HIST 120 United States History to 1865 HIST 121 United States History Since 1865

HIST 121 United States History Since 1869 POLS 135 Introduction to Political Science

POLS 136 Introduction to American National Politics POLS 137 Introduction to State and Local Politics

If a student has not completed one course which is the equivalent of HIST 120, HIST 121, POLS 135, POLS 136, or POLS 137 at a Missouri institution of higher education, the student must arrange

with his/her home MCC college to satisfy the Missouri Constitution requirement either through additional course work or special exam.

Communications-9 credits

Rationale: The Communications requirement will provide students with opportunities to practice and hone active listening, effective speaking, analytical reading, and purposeful writing. Students will draw on analytical and creative thought processes to find and retrieve reliable information, evaluate the relevance of source material, synthesize and draw conclusions from ideas, reflect upon their own and others' ideas and experiences, and conceptualize new ways of perceiving ideas. They will design carefully reasoned and creative presentations, both spoken and written.

Complete the following:

ENGL 101 Composition and Reading I <u>and</u>
ENGL 102 Composition and Reading II <u>and</u>
SPDR 100 Fundamentals of Speech <u>or</u>

SPDR 102 Fundamentals of Human Communication

Humanities-9 credits

Rationale: The Humanities requirement will engage students in content and activities in which they must demonstrate their ability to deal with abstractions, complexities, and subtleties of thought and language, and to understand the aesthetic value of human creativity. Students will develop intellectual agility that allows for lifelong learning, adaptability, and appreciation of differences.

Complete one 3-credit course in each of any three different areas. One of the courses must be in literature or philosophy.

Art History - any course

Literature - any course

Foreign Language - any course (101 or above)

SIGN 101 Conversational American Sign Language I SIGN 102 Conversational American Sign Language II

History

HIST 133 Foundations of Western Civilization
HIST 134 Modern Western Civilization II

Humanities – any course

Music

MUSI 108 Music Appreciation

MUSI 116 Evolution of Jazz

MUSI 160 Music of the World's Cultures

Philosophy - any course

Speech and Drama

SPDR 103 Interpersonal Communication SPDR 104 Discussion and Group Leadership

SPDR 106 Theater Appreciation

SPDR 100 Meater Appreciation SPDR 110 Argumentation and Debate SPDR 112 Oral Interpretation of Literature

SPDR 114 Theater and Western World

SPDR 128 Introduction to Film

SPDR 133 Intercultural Communication

SPDR 228 African Film

Mass Communications

MSCM 112 Introduction to Modern Communications

Career & Technical Degrees & Certificates

Certificates

In addition to two-year associate degrees, Metropolitan Community College awards certificates to students who complete certain short-term career and technical programs. Some of the same certificates can only be completed at certain campuses.

Associate in Applied Science Degree

MCC also awards Associate in Applied Science degrees. Some of the degrees can only be completed at certain campuses.

Graduation Requirements for A.A.S. Degrees

Credentials

Each graduation candidate must have on file in the admissions office the following documents:

- A transcript of all high school work or scores from the General Education Development (GED) test or state-required documentation for home-school graduates.
- 2. Transcripts of all prior college work.

NOTE: If a student has successfully completed 15 semester hours at another accredited college or university, then high school transcripts are not required.

Scholarship

Each graduate must achieve a minimum MCC 2.0 grade point average on a four-point grading scale.

Enrollment

Each graduate must meet one of the following requirements:

- They must complete at least 15 credit hours at an MCC campus and be enrolled during the academic year they qualify for a degree or certificate.
- 2. They must complete a minimum of 56 credit hours at an MCC campus if they are not enrolled during the academic year they qualify for a degree.

Total Credits

Graduates must successfully complete a course of study that requires at least 62 credit hours for an Associate in Applied Science degree.

Each degree includes both general education requirements and specialized requirements. Some programs also require general education or other electives to bring students' total credits to the number needed for a degree. A minimum of 18 credit hours of general education is required for an A.A.S. degree. Within these 18 credit hours, all A.A.S. degrees will have nine credit hours in Communications and American Institutions. The remaining nine credit hours will provide students with educational experiences to complement MCC's established general education components.

A.A.S. General Education Core Curriculum

ENGL 101 Composition & Reading I	3
SPDR 100 Fundamentals of Speech or	0
SPDR 102 Fundamentals of Human Communications	3
One of the following American Institutions courses:	
HIST 120 United States History to 1865	
HIST 121 United States History Since 1865	
POLS 135 Introduction to Political Science	
POLS 136 Introduction to American National Politics	
POLS 137 Introduction to State and Local Politics	3
Any course(s) numbered 100 or above from the following disciplines:	
ART, ANTH, ECON, ENGL, Foreign Language,	
GEOG (except 104 & 110 and GIS courses), HIST, HUMN, MSCM, MU	JSI,
PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR	3-6
Any course(s) numbered 100 or above from the following disciplines:	
BIÓL, CHEM, GEOG (104 &110), GEOL, MATH, PHSC,	
	3-6
Minimum Total General Education Credit Hours	18

Only courses numbering 100 or higher can be used to earn credit toward degrees and certificates. Students who transfer credits to MCC from another accredited college or university should meet with an advisor or counselor to make sure they have taken the right courses.

State Requirement

Missouri law states that all college or university graduates should complete a course covering the federal and state constitutions as well as American history and government. Students who transfer from out-of-state schools should check with the MCC counseling or development center to find out how they can meet this requirement.

Application for a Degree

The semester before completing all of their degree requirements, prospective MCC graduates must file an application for receiving their degrees with the admissions/records office. Once the form is filed, students will receive an evaluation and additional information. Visit the admissions/records page at www.mcckc.edu for more information.

Accreditation

The Metropolitan Community College District—including Blue River, Longview, Maple Woods, Penn Valley and Business & Technology—is accredited by the Higher Learning Commission of the North Central Association. For information on this accreditation association, contact the Commission online at www.ncahigherlearningcommission.org or by phone at 312-263-0456. To review MCC's accreditation materials, please call (816) 604-1000.

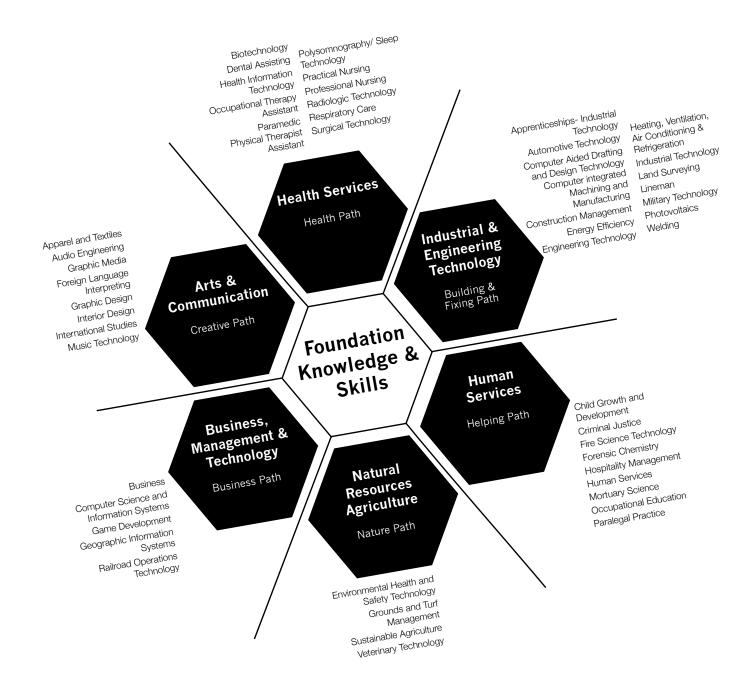
In addition to institutional accreditation, many programs have individiual accreditations. Please check program websites for additional information.

Program Eligibility

In addition to the requirements for admission to the college, students must meet specific conditions before they may enroll in certain Career and Technical programs. For many of these, a student must make application and be accepted for the program. Information about how to apply for these programs is provided on the program websites and further information is available from academic advisors or counselors.

Program	College	Application Information
Dental Assisting	MCC-Penn Valley	www.mcckc.edu/dentalassisting
Line Technician	MCC-Business & Technology	www.mcckc.edu/linetech
Fire Academy	MCC-Blue River	www.mcckc.edu/fireacademy
Ford Automotive Student Service Educations	MCC-Longview	www.mcckc.edu/automotive
General Motors Automotive Service Educational	MCC-Longview	www.mcckc.edu/automotive
Health Information Technology	ogy MCC-Penn Valley	www.mcckc.edu/healthtech
Occupational Therapy Assis	stant MCC-Penn Valley	www.mcckc.edu/occupationaltherapy
Paramedic	MCC-Penn Valley	www.mcckc.edu/emt
Physical Therapist Assistan	t MCC-Penn Valley	www.mcckc.edu/physicaltherapy
Police Academy	MCC-Blue River	www.mcckc.edu/policescience
Practical Nursing	MCC-Penn Valley	www.mcckc.edu/pvnursing
Professional Nursing	MCC-Penn Valley	www.mcckc.edu/pvnursing
Radiologic Technology	MCC-Penn Valley	www.mcckc.edu/ radiology
Respiratory Care	MCC-Penn Valley/ JCCC	www.mcckc.edu/respiratorycare
Surgical Technology	MCC-Penn Valley	www.mcckc.edu/surgicaltech
Veterinary Technology	MCC-Maple Woods	www.mcckc.edu/veterinary

Career Clusters



Career Paths

Missouri has identified six Career Paths as a way to help you become aware of and explore careers in a logical and meaningful way. Career Paths are a good starting point for your career exploration.

Career Clusters

Within the six Career Paths are 16 Career Clusters to further help with career exploration and career planning.

Mathematics - 3 credits

Rationale: The Mathematics requirement will enhance the students' ability to think critically; use mathematics to solve problems; use quantitative processes to analyze, evaluate, and interpret solutions; and communicate ideas using mathematical language and symbols. Complete the following:

MATH 119 College Mathematics or higher-numbered MATH course

Natural Sciences-9 credits

Rationale: The Natural Sciences requirement will enable students to demonstrate understanding of natural environments and methods for gaining such knowledge including the scientific method and empirical methods of scientific inquiry.

Complete two laboratory sciences—one in biological science and one in physical science. The physical sciences include the following disciplines: chemistry, geology, physical geography, meteorology and physics.

Social Sciences-6 credits

Rationale: The Social Sciences requirement will help students develop a more complete understanding of the social environment and broaden social and historical knowledge bases. Completion of this requirement will enhance students' skills in critical thinking, problem solving and communication.

<u>Complete one course from two different areas.</u> Courses selected for the American Institutions or Humanities requirement will not fulfill the Social Science requirement.

Anthropology - any course Economics - any course Geography

GEOG 105 World Geography

GEOG 111 Geography of the Western World

GEOG 112 Geography of the Eastern World

GEOG 113 Cultural Geography

GEOG 114 Introduction to Geography

GEOG 207 Geography of the U.S. and Canada

History - any course Social Sciences - any course Political Science - any course Psychology - any course Sociology - any course

The above requirements constitute the 42-credit hour block that upon completion will transfer by state policy in its entirety to any public college or university in Missouri and to those private colleges or universities that are signatories to the Missouri Credit Transfer Agreement.

Other Associate in Arts Degree Requirements Computer-3 credits

Rationale: The Computer Science requirement will enable students to better understand the effect of computer-related technologies on society; to recognize responsible uses of computer-related technology; to apply these technologies in communication, solving problems, managing information, and thinking critically; to enhance general academic studies and business productivity; and to support life-long learning.

Complete the following:

CSIS 110 Technology and Information Management or higher-numbered CSIS course

Electives-17 credits

Rationale: Electives will prepare students for a life of learning by expanding choices and enriching possibilities. These electives encourage a wide range of courses that explore insights into several fields of inquiry, develop an active understanding of the natural world, and allow an opportunity to apply communication skills.

Complete 17 credits of electives to total a minimum of 62 hours.

 Courses numbered 100 or above may be applied to bring the total number of credit hours to the minimum of 62 credit hours required for the degree. The student may apply up to four hours of credit selected from music performance and up to four hours of credit from physical education activity courses.

Total credits required for the A.A. degree

63

Student Participation in Assessment of Academic Achievement

MCC is committed to increasing student learning by continuous improvement of its curriculum, instruction, support services, and other institutional practices. The basis for improvement efforts are the results of MCC's program to assess student academic achievement.

Students will be asked, from time to time during their academic careers at MCC, to participate in various assessments of student learning, which may include state or national tests, portfolios, or other college assessment instruments. Students are expected to participate in these assessments as a responsibility of their enrollment in MCC Campuses.

Statement of Ethical Conduct and Assessment.

During the development of MCC's Plan For Assessing Student Academic Achievement, faculty wanted an assurance that the assessment program would focus on those issues associated with teaching, learning and curriculum revision. It was important for all constituent groups to know that assessment efforts and analysis and reporting of data generated by these efforts are conducted in ways that preserve high professional and ethical standards and that promote the best interests of students. The following is MCC's ethical statement:

Metropolitan Community College recognizes that the activities associated with assessment must be conducted in an ethical and professional manner. Information, data, and assessment activities designed to present an aggregate picture of MCC shall in no way be used to evaluate individual students or faculty. Also, students, faculty, and staff associated with assessment activities or projects will be treated in a manner that follows accepted practices for dealing with human subjects. The MCC assessment initiatives are designed and conducted so as to improve teaching and learning as well as overall institutional improvement.

Check the web for the most *up-to-date* degree requirements.

The Associate in Arts Degree

Associate in Arts Degree

		T	т
COLL 100 First Year Seminar	1	_	
General Education Requirements	Credits	Semester Taken	Prerequisites
American Institutions: (2 coursesone must be HIST)			
HIST 120, 121, POLS 135, 136, 137	6		
Communications:			
ENGL 101	3		ENGL 30 or appropriate placement test score
ENGL 102	3		ENGL 101
SPDR 100 or SPDR 102	3		ENGL 30 or appropriate placement test score
Mathematics:			
MATH 119: College Mathematics or higher	3		MATH 110 or appropriate placement test score
Humanities: (3 courses, 3 areas of study, 1 course must be Lit.	or Phil.)		
Art History or ART 108	3		
Foreign Language 101 or higher or SIGN 101 or 102	3-5		1
HUMN	3		
Literature	3		1
MSCM 112	3		See Courses section of this catalog for individual
MUSI 108, 116 or 160	3		course prerequisites.
PHIL	3		
SPDR 103, 104, 106, 110, 112, 114, 128, 133 or 228	3		
HIST/HUMN 133 or 134	3		
Natural Sciences: (2 courses, 1 Biological and 1 Physical)			
BIOL (Must include laboratory)	5		Con Courses and the anteles for individual
CHEM, GEOG, GEOL (excluding GEOL 225), or PHYS	4.5		See Courses section of this catalog for individual
(Must include laboratory)	4-5		course prerequisites.
Social Sciences: (2 courses, 2 areas of study)			
ANTH	3		
ECON	3		
GEOG (excluding 104,110 and GIS Courses)	3		
HIST	3		See Courses section of this catalog for individual
POLS	3		course prerequisites.
PSYC	3		
SOCI	3		
SOSC	3		
Total General Education Courses	42		
Computer Science:			
CSIS 110 or higher CSIS course or credit by examination	3		
Electives: (courses must be numbered 100 or higher)			
The student may apply up to four hours of credit selected from music			
performance and up to four hours of credit from physical education activity	''		
courses.			
Total Credit Hours Required	63		
All courses must be at least 100 level or higher			

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All courses must be at least 100 level or higherCourses can only be used once to meet degree requirements

The Associate in Arts Business Degree

The Associate in Arts Business degree offers an MCC student the opportunity to transfer seamlessly into a four-year Missouri college or university as a junior, and to achieve his or her Bachelor's degree in Business with two more years of college work. Because there are slight variations in the requirements for Business credit at receiving institutions, students are advised to check with the school to which they plan to transfer or speak with an MCC advisor to make sure they are taking the right classes.

Associate in Arts Business

General Education Requirements American Institutions (2 courses one must be HIST) American Institutions: (2 coursesone must be HIST) HIST 120, 121, POLS 135, 136, 137 Communications: ENGL 101 ENGL 102	Credits 3 3	Semester Taken	Prerequisites
American Institutions: (2 coursesone must be HIST) HIST 120, 121, POLS 135, 136, 137 Communications: ENGL 101			
HIST 120, 121, POLS 135, 136, 137 Communications: ENGL 101			
Communications: ENGL 101	3		
ENGL 101			
ENGL 102	3		ENGL 30 or appropriate placement test score
-·-	3		ENGL 101
SPDR 100 or SPDR 102	3		ENGL 30 or appropriate placement test score
Mathematics:			
MATH 119: College Mathematics or higher	3		MATH 110 or appropriate placement test score
Humanities: (3 courses, 3 areas of study, 1 course must be Lit.	or Phil.)		
Art History or ART 108	3		
Foreign Language 101 or higher or SIGN 101 or 102	3-5		1
HUMN	3		1
Literature	3		1
MSCM 112	3		See Courses section of this catalog for individual
MUSI 108, 116 or 160	3		course prerequisites.
PHIL	3		1
SPDR 103, 104, 106, 110, 112, 114, 128, 133 or 228	3		1
HIST/HUMN 133 or 134	3		1
Natural Sciences: (2 courses, 1 Biological and 1 Physical)			
BIOL (Must include laboratory)	5		
CHEM, GEOG, GEOL (excluding GEOL 225), or PHYS			See Courses section of this catalog for individual
(Must include laboratory)	4-5		course prerequisites.
Social Sciences:			
ECON 210 (required)	3		
One course from the following:			1
GEOG (excluding 104,110 and GIS Courses)	3		-
HIST	3		1
POLS	3		1
PSYC	3		1
SOCI or ANTH	3		1
SOSC	3		1
Total General Education Courses	42		
Computer Science			
CSIS 110 or higher CSIS course or Credit by Examination	3		
Required Business Electives (12 credits)	- 3		
BSAD 101 Principles of Accounting I	3		
BSAD 101 Principles of Accounting I	3		BSAD 101 or two years of high school accounting
BSAD 270 Legal Environments of Business	3		BOAD TO FOIL TWO YEARS OF HIGH SCHOOL ACCOUNTING
-			MATH 40 or 40L or a satisfactory score on the
ECON 211 Principles of Economics	3		placement test
Required Electives			
MATH 115 Statistics	3		MATH 110 or satisfactory score on Math placement test
Business Elective (course must be numbered 100 or higher)	3		
Working closely with both campus advisors and MCC business faculty is when selecting electives. Electives will vary based on transfer institution degree plan.			
Total Credit Hours Required	64		

The Associate in Arts Criminal Justice Degree

The Associate in Arts in Criminal Justice degree offers an MCC student the opportunity to transfer seamlessly into a four-year Missouri college or university as a junior, and to achieve his or her Bachelor's degree in Criminal Justice with two more years of college work. Because there are slight variations in the requirements for Criminal Justice credit at receiving institutions, students are advised to check with the school to which they plan to transfer or speak with an MCC advisor to make sure they are taking the right classes.

Associate in Arts Criminal Justice Degree

COLL 100 First Year Seminar	1		
		Semester	D
General Education Requirements	Credits	Taken	Prerequisites
American Institutions: (2 coursesone must be HIST)			
HIST 120, 121, POLS 135, 136, 137	6		
Communications:			
ENGL 101	3		ENGL 30 or appropriate placement test score
ENGL 102	3		ENGL 101
SPDR 100 or SPDR 102	3		ENGL 30 or appropriate placement test score
Mathematics:			
MATH 119: College Mathematics or higher	3		MATH 110 or appropriate placement test score
Humanities: (3 courses, 3 areas of study, 1 course must be	Lit. or Phil.)		
Art History or ART 108	3		
Foreign Language 101 or higher or SIGN 101 or 102	3-5		1
HUMN	3		1
Literature	3		1
MSCM 112	3		See Courses section of this catalog for individual
MUSI 108, 116 or 160	3		course prerequisites.
PHIL	3		-
SPDR 103, 104, 106, 110, 112, 114, 128, 133 or 228	3		-
HIST/HUMN 133 or 134	3		-
Natural Sciences: (2 courses, 1 Biological and 1 Physical)			
BIOL (Must include laboratory)	5		
CHEM, GEOG, GEOL (excluding GEOL 225), or PHYS			See Courses section of this catalog for individual
(Must include laboratory)	4-5	I	course prerequisites.
Social Sciences: (2 courses, 2 areas of study)			
ANTH	3		
ECON	3		-
GEOG (excluding 104,110 and GIS Courses)	3		-
HIST	3		See Courses section of this catalog for individual
POLS	3		course prerequisites.
PSYC	3		goodfoo prerequisiteo.
SOCI	3		-
SOSC	3		-
Total General Education Courses	42		
CSIS 110 or higher CSIS course or credit by examination	3		
Criminal Justice Electives (must take 6 of the 7 courses)			
			T
CRJU 101 Introduction to Criminal Justice	3		CD III 404
CRJU 105 American Corrections	3		CRJU 101
CRJU 165 Criminology	3		
CRJU 168 Juvenile Delinquency	3		The student word consists 45 hours (Q)
CRJU 200 Internship in Criminal Justice	3		The student must complete 15 hours of Criminal Justice including CRJU 101 before taking this course.
CRJU 203 Criminal Inverstigations	3		
CRJU 223 Criminal Law	3		
Total Credit Hours Required	64		
All courses must be at least 100 level or higher			

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- All courses must be at least 100 level or higher
- · Courses can only be used once to meet degree requirements

The Associate in Arts Teaching Degree

he Associates in Arts in Teaching (AAT) is a pre-professional degree that prepares students to transfer to a four-year college or university offering a Bachelor's Degree in Teacher Education. The AAT is a state-wide approved program and when completed in its entirety meets the first 2 years certification requirements for individuals pursuing either an early childhood, elementary or secondary education degree.

Degree Requirements

In order to receive the degree of AAT, students must complete the required courses below, obtain at least state required scores on the C-BASE, and earn a minimum 2.5 GPA. Because requirements may vary, students should consult the School of Education at the four-year transfer institution. In addition to verifying specific university minimums, education students should explore which elective courses will be accepted.

All education courses are open to both degree seeking and non-degree seeking students. For a complete list of education courses, refer to the Education section of the Course Descriptions.

Associate in Arts Teaching Degree

COLL 100 First Year Seminar	1		
General Education Requirements	Credits	Semester Taken	Prerequisites
American Institutions: (2 courses, one must be HIST)			
HIST 120, 121, POLS 135, 136, 137	6		
Communications:			
ENGL 101	3		ENGL 30 or appropriate placement test score
ENGL 102	3		ENGL 101
SPDR 100 or SPDR 102	3		ENGL 30 or appropriate placement test score
Mathematics:			
MATH 119: College Mathematics or higher	3		MATH 110 or appropriate placement test score
Humanities: (3 courses, 3 areas of study, 1 course must be Lit. of	or Phil.)	,	
Art History or ART 108	3		
Foreign Language 101 or higher or SIGN 101 or 102	3-5		-
HUMN	3		
Literature	3		1
MSCM 112	3		See Courses section of this catalog for individual
MUSI 108, 116 or 160	3		course prerequisites.
PHIL	3		
SPDR 103, 104, 106, 112, 114, 128, 133 or 228	3		
HIST/HUMN 133 or 134	3		-
Natural Sciences: (2 courses, 1 Biological and 1 Physical)		Į.	
BIOL (Must include laboratory)	5		
CHEM, GEOG, GEOL, PHYS, or PHSC			See Courses section of this catalog for individual
(Must include laboratory)	4-5		course prerequisites.
Social Sciences: (2 courses, 2 areas of study)			
ANTH	3		
ECON	3		-
GEOG (excluding 104,110 and GIS Courses)	3		-
HIST	3		See Courses section of this catalog for individual
POLS	3		course prerequisites.
PSYC	3		- Journal Prorogansico.
SOCI	3		-
SOSC	3		-
Total General Education Courses	42		
Education	72		
EDUC 200 Foundations of Education	3		ENGL 101
EDUC 200 Foundations of Education EDUC 201 Teaching Profession with Field Experience	3		ENGL 101
EDUC 201 reaching Profession with Field Experience EDUC 270 Educational Psychology	3		PSYC 140
EDUC 270 Educational Psychology EDUC 280 Technology for Teachers	3		ENGL 101
Electives: (courses must be numbered 100 or higher)	3		LINGL IUI
Working closely with both campus advisors and MCC education faculty is imperative			
when selecting electives. Electives will vary based on transfer institution and 4			
year degree plan. Additionally there are elective courses that will be extremely	8		
beneficial for passing the C-BASE exam.*			
(EDUC 285 Education of Exceptional Learners can be used as an elective.)			
Total Credit Hours Required	63		

- · All courses must be at least 100 level or higher
- Students must achieve a minimum GPA of 2.5
- Courses can only be used once to meet degree requirements
- Students must achieve minimum scores of 235 on each section of the C-BASE*
- We recognize that four-year transfer institutions may have additional requirements including higher GPA, higher C-BASE scores*, or additional courses that could be taken at the community college level. Students are encouraged to work closely with an advisor from the receiving institution so that they may understand and prepare to meet all entrance requirements.

*Missiouri Teacher Education requirements are changing. Please check with an advisor or education faculty for current information.

The Associate in Computer Science Degree

he Associate in Computer Science (ACS) degree is a preprofessional program that prepares students to transfer to a four-year college or university. It should not be confused with the Associate in Applied Science degree in Computer Science and Information Systems that prepares students for immediate employment.

Because computer science requirements vary at each four-year college or university, students should check with the school they plan to transfer to or speak with an advisor or counselor to make sure they're taking the right classes.

There are two areas of concentration for the Associate in Computer

Science degree.

- 1. Computer Science
- 2. Computer Information Systems

Degree Requirements

In order to receive the degree of Associate in Computer Science, the student must complete the requirements for all degrees listed under Degree Graduation Requirements and the course requirements listed below.

A.C.S. Computer Science

COLL 100 First Year Seminar	1		
General Education Requirements	Credits	Semester Taken	Prerequisites
American Institutions			
Two of the following (one must be HIST):			
HIST 120 United States History to 1865			
HIST 121 United States History Since 1865	6		
POLS 135 Introduction to Political Science			
POLS 136 Introduction to American National Politics			
POLS 137 Introduction to State and Local Politics			
Communications	0		TNOL 00
ENGL 101	3		ENGL 30 or appropriate placement test score
ENGL 102 SPDR 100 or SPDR 102	3		ENGL 101
		`	ENGL 30 or appropriate placement test score
Humanities (2 courses, 2 areas of study, 1 course must be Literatur	e or PHIL	.)	
Art History	-		
Foreign Language 101 or higher or SIGN 101 or 102 HUMN 133, 134	-		
Literature	-		
MSCM 112	6-8		See Courses section of this catalog for individual
MUSI 108, 116, 160	0-0		course prerequisites.
PHIL	-		
SPDR 103, 104, 106, 110, 112, 114, 128, 133	-		
HIST/HUMN 133 or 134	-		
Natural Sciences (one lab course)			
	_		See Courses section of this catalog for individual
BIOL, CHEM, GEOG, GEOL, PHYS (must include lab)	5		course prerequisites.
Social Sciences (one course)			
ANTH			
ECON			
GEOG 105, 111, 112, 113, 114, 207			
HIST	3		See Courses section of this catalog for individual
POLS] 3		course prerequisites.
PSYC			
SOCI			
SOSC			

The Associate in Computer Science Degree (cont)

A.C.S. Computer Science (cont)

Specific Program Requirements - C	hoose an Emphasis	
Computer Science Emphasis		100100-100103 Revised 6/2013 (Summer 2013
Five of the following: CSIS 123 Programming Fundament CSIS 223 Object-Oriented Program CSIS/MATH 141 Discrete Structures for Computer S CSIS 221 Introduction to Computer CSIS 233 Web-Centric Programmin CSIS/MATH 241 Discrete Structures for Computer S CSIS 265 Graphical User Interface CSIS 271 Data Structures and Algo	ming Science I Architecture 15 Gience II Programming	MATH 40/40L or appropriate placement test score (CSIS 123) MATH 110 and CSIS 123 (CSIS 223) MATH 120 or 150 (CSIS /MATH 141) CSIS 123 and MATH 120 (CSIS 221) MATH 110 and CSIS 223 (CSIS 233) MATH 141 and CSIS 223 (CSIS 241) CSIS 223 (CSIS 265) MATH 141 and CSIS 223 (CSIS 271)
15 Credit Hours from the following: MATH 150 Precalculus MATH 180 Analytic Geometry & Calo MATH 190 Analytic Geometry & Calo MATH 210 Analytic Geometry & Calo MATH 230 Differential Equations	culus II	MATH 110 or appropriate placement test score (MATH 150) MATH 130 or 150 (MATH 180) MATH 180 (MATH 190) MATH 190 or appropriate placement test score (MATH 210) MATH 190 (MATH 230)
Electives: CSIS or General Education	on 3	
Computer Information Systems Emph	asis	100100-100104 Revised 12/2004 (Fall 2005)
MATH 120 College Algebra	3	MATH 110 or appropriate placement test score
15 Credit Hours from the following: CSIS 123 Programming Fundament CSIS 223 Object-Oriented Program CSIS/MATH 141 Discrete Structures for Co CSIS 221 Introduction to Computer CSIS 233 Web-Centric Programmin CSIS/MATH 241 Discrete Structures for Co CSIS 265 Graphical User Interface CSIS 271 Data Structures and Algo	ming pmputer Science I Architecture g pmputer Science II Programming	MATH 40/40L or appropriate placement test score (CSIS 123) MATH 110 and CSIS 123 (CSIS 223) MATH 120 or 150 (CSIS /MATH 141) CSIS 123 and MATH 120 (CSIS 221) MATH 110 and CSIS 223 (CSIS 233) MATH 141 and CSIS 223 (CSIS 241) CSIS 223 (CSIS 265) MATH 141 and CSIS 223 (CSIS 271)
Electives: General Education, BSAI		
Total Credit Hours Required	63	

The Associate in Engineering Degree

Associate in Engineering Engineering 65-71 Credits

he Associate in Engineering degree is a preprofessional program that prepares students to transfer to a four-year college or university offering a Bachelor of Science degree in Engineering. Most MCC students transfer to the University of Missouri-Columbia, the University of Missouri-Kansas City or the Missouri University of Science and Technology. Students should check the catalog of the school they plan to transfer to or speak with an engineering program advisor or counselor to make sure they're taking the right classes.

Associate in Engineering

General Edi	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102	Composition and Reading II	3		ENGL 101
HIST 120	United States History to 1865 or	3		
HIST 121	United States History Since 1865	3		
ECON 210	Macroeconomics or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or	3		
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Engineering	Emphasis Specific Program Requirements			
CHEM 111	General College Chemistry I	5		MATH 120 (or appropriate placement test score) or two units of high school algebra and CHEM 107 or high school chemistry (CHEM 111)
ENGR 101	Intro to the Profession	1		•
ENGR 104 CSIS 123	Programming for Engineers and Scientists* or Programming Fundamentals	3		MATH 120 and 130 or MATH 150 (ENGR 104) MATH 40/40L or appropriate placement test score (CSIS 123)
ENGR 113 ETEC 152	Engineering Design & Microcomputer Applications** or Engineering Graphics & CADD I	3-5		MATH 110 (ENGR 113) MATH 40/40L (ETEC 152)
ENGR 229	Statics	3		MATH 190 and PHYS 220
MATH 180	Analytic Geometry & Calculus I	5		MATH 130 or 150
MATH 190	Analytic Geometry & Calculus II	5		MATH 180
MATH 210	Analytic Geometry & Calculus III	5		MATH 190 or appropriate placement test score
MATH 230	Differential Equations	3		MATH 190
PHYS 220	Engineering Physics I	5		Enrollment in or completion of MATH 190
PHYS 221	Engineering Physics II	5		PHYS 220 and enrollment in or completion of MATH 210
Two of the fol	lowing seven courses:			CHEM 112 (CHEM 221)
CHEM 221	Organic Chemistry I			CHEM 112 (CHEM 221) CHEM 221 (CHEM 222)
CHEM 222	Organic Chemistry II			MATH 190 (ENGR 215)
ENGR 215	Engineering Statistics and Computation	6-10		
ENGR 223	Thermodynamics and Heat Transfer	6-10		MATH 190 and PHYS 220 (ENGR 223) ENGR 229 (ENGR 230)
ENGR 230	Dynamics			ENGR 229 (ENGR 230) ENGR 229 (ENGR 240)
ENGR 233	Circuit Analysis I			PHYS 221 or concurrent enrollment (ENGR 233)
ENGR 240	Mechanics of Materials			F1113 221 of concurrent enfollment (ENGR 233)
Total Credi	t Hours Required	65-71		
	y substitute BIOL 101, CHEM 112, or SRVY 135 for ENGR 10	04.		
	nay substitute BIOL 101 or CHEM 112 for ENGR 113.			

Students may substitute BIOL 101 or CHEM 112 for ENGR 113

The Associate in Science Degree

he Associate in Science degree program prepares students to transfer to a four-year college or university to major in either biology or chemistry. Because requirements vary at each four-year college or university, students should check with the school they plan to transfer to or an advisor or counselor to make sure they're taking the right courses.

Degree Requirements

In order to receive the Associate in Science degree, the student must complete the requirements, the general education requirements listed below and the specialized education requirements for either Biology or Chemistry.

A.S. Biology

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102	Composition and Reading II	3		ENGL 101
Two of the fold HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	lowing: United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	6		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Humanitites E		3		
	gram Requirements			
BIOL 104	General Botany	5		
BIOL 106	General Zoology	5		
BIOL Elective	: At least 3 hours must be 200 or above.	3-5		See Courses section of this catalog for individual course prerequisites.
CHEM 111	General College Chemistry I	5		MATH 120 (or appropriate placement test score) or two units of high school algebra and CHEM 107 or high school chemistry
CHEM 112	General College Chemistry II	5		CHEM 111
CHEM 221 CHEM 222 PHYS 130 PHYS 131	Organic Chemistry I and Organic Chemistry II or General Physics I and General Physics II	10		CHEM 112 (CHEM 221) CHEM 221 (CHEM 222) MATH 130 (PHYS 130) PHYS 130 (PHYS 131)
MATH 115 MATH 120	Statistics and College Algebra or	5-6		MATH 110 or appropriate placement test score (MATH 115 & 120)
MATH 180	Analytic Geometry and Calculus I			MATH 130 or 150 (MATH 180)
Electives		3-6		See Courses section of this catalog for individual course prerequisites.
Total Credit	Hours Required	63-66		

The Associate in Science Degree

A.S. Chemistry

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102	Composition and Reading II	3		ENGL 101
HIST 120 HIST 121	United States History to 1865 and United States History Since 1865 or			
Two of the following		6		
POLS 135 POLS 136	Introduction to Political Science Introduction to American National Politics			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Specific Pro	gram Requirements			
CHEM 111	General College Chemistry I	5		MATH 120 (or appropriate placement test score) or two units of high school algebra and CHEM 107 or high school chemistry
CHEM 112	General College Chemistry II	5		CHEM 111
CHEM 221	Organic Chemistry I	5		CHEM 112
CHEM 222	Organic Chemistry II	5		CHEM 221
MATH 180	Analytic Geometry & Calculus I	5		MATH 130 or 150
MATH 190	Analytic Geometry & Calculus II	5		MATH 180
MATH 210	Analytic Geometry & Calculus III	5		MATH 190
PHYS 220	Engineering Physics I	5		Enrollment in or completion of MATH 190
PHYS 221	Engineering Physics II	5		PHYS 220 and enrollment in or completion of MATH 210
Special Progr	am Electives	4		See Courses section of this catalog for individual course prerequisites.
Total Credit	Hours Required	65		

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General Education

General Education Certificate

1							
Credits	Semester Taken	Prerequisites					
American Institutions: (2 coursesone must be HIST)							
6							
3		ENGL 30 or appropriate placement test score					
3		ENGL 101					
3		ENGL 30 or appropriate placement test score					
3		MATH 110 or appropriate placement test score					
or Phil.)							
3							
3-5							
3							
3		See Courses section of this catalog for individual					
3		course prerequisites.					
3		course prerequisites.					
3							
3							
3							
5		See Courses section of this catalog for individual					
1.5		course prerequisites.					
4-5		course prerequisites.					
3							
3							
3							
3		_					
3							
43							
	Gredits G G G G G G G G G	Credits Semester Taken 6 3 3 3 3 3 3 3 3					

All courses must be at least 100 level or higherCourses can only be used once to meet degree requirements

Arts & Communication

International Studies

Offered at MCC-Blue River, MCC-Longview, MCC-Maple Woods, MCC-Penn Valley

This program is designed to enable students to develop a fundamental level of international and intercultural competence, and to prepare them to assume their role in a politically, economically and culturally interdependent world. The program is especially beneficial to students planning to transfer to four-year colleges and universities and to students desiring international education.

International Studies Certificate

COLL 100 First Year Seminar	1		
General Education Requirements	Credits	Semester Taken	Prerequisites
HUMN 103 Introduction to International Studies	3		
GEOG 105 World Geography	3		
One of the following Humanities courses:			
ART 108, ART 205, ENGL 150, ENGL 151, ENGL 167, ENGL 220, ENGL 221, ENGL 265, HUMN 140, HUMN 141,	3		
MUSI 160, PHIL 102	3		
One of the following History courses:			
HIST 133, HIST 134, HIST 145	3		
One of the following Social Science courses:			
ANTH 110, ECON 210, GEOG 111, GEOG 112, GEOG 113, POLS 234, SOSC 171	3		
One Foreign Language course 100 or above	3-5		
One of the following Human Diversity courses:			
ENGL 152, ENGL 155, ENGL 265, HIST 140, MUSI 116, SOCI 164, SOCI 210, SPDR 228	3		
One elective from the following:			
BIOL 238, BIOL 239, SPDR 133 or a second Humanities,			
History, Science or Foreign Language course from the selected	3-5		BIOL 101, 104, or 106 for BIOL 239
international courses above			
Total Credit Hours Required	25-29		

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Arts & Communication

Apparel and Textiles

Offered at MCC-Penn Valley

A.A.S. Apparel and Textiles-		
Design and Product Development 66-	67	Credits
A.A.S. Apparel and Textiles-		
Merchandising and Marketing 66-	67	Credits
Merchandising Entrepreneurship Certificate		
	31	Credits
Product Development and Design Certificate		
	31	Credits

This program leads to an Associate in Applied Science degree and prepares students for careers in design and illustration. Two certificates are also offered.

A.A.S. Apparel and Textiles-Design and Product Development

COLL 100	First Year Seminar	1		
General Edu	ication Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score.
HIST 120	United States History to 1865 or	3		
HIST 121	United States History since 1865			
MATH 100	Mathematics for Business or higher	3		MATH 20 or 20L or appropriate placement test score.
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score.
Any Art Histor	y course.	3		
ART 110	Drawing I	3		
	gram Requirements			
Courses offe	red at MCC-Penn Valley			
APTX 130	Fashion Illustration I and Technical Drawing	3		
APTX 100	Introduction to Apparel Studies	3		
APTX 111	Aesthetics and Design for Apparel and Textiles	3		
APTX 112	Apparel Construction	3		
APTX 113	Advanced Clothing Construction	3		
APTX 118	Costume History-Ancient Mesopotamia Through the Nineteeth Century	3		
APTX 119	Advertising and Promotion for Merchandising Environments	3		
APTX 211	Pattern Design-Flat Pattern	3		
APTX 212	Textiles	3		
APTX 215	Pattern Design-Draping	3		
APTX 217	20th Century Costume History	3		APTX 118
APTX 220	Merchandising I	3		APTX 100, and MATH 100 or higher
APTX 221	Merchandising II	3		-
APTX 225	Pattern Design-CAD	3		
APTX 250	Computer Aided Fashion Illustration and Technical Drawing	3		APTX 130
APTX 275	Portfolio Presentation	3		APTX 211, APTX 215
Total Credit Hours Required		66-67		
APTX 40	Fundamentals of Apparel Construction ecommended for those students who have no sewing experience.	0-1		

Apparel and Textiles

A.A.S. Apparel and Textiles-Merchandising and Marketing

	Jaiel allu Textiles-iviel Charluising allu iviaike	zurig		
COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score.
HIST 120	United States History to 1865 or	3		
HIST 121	United States History since 1865	3		
MATH 100	Mathematics for Business or higher	3		MATH 20 or 20L or appropriate placement test score
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score.
Any Art Histor		3		
ECON 210	Macroeconomics	3		
Specific Pro	gram Requirements			
BSAD 101	Accounting Principles I	3		
BSAD 102	Accounting Principles II	3		BSAD 101 or 2 years of high school accounting
BSAD 205	Marketing	3		
BSAD 120	Organizational Behavior	3		
Choose one:				
BSAD 109	Principles of Supervision <i>or</i>	3		
BSAD 219	Entrepreneurship or	3		
ECON 211	Microeconomics*			
APTX 100	Introduction to Apparel Studies	3		
APTX 111	Aesthetics and Design for Apparel and Textiles	3		
APTX 112	Apparel Construction	3		
APTX 113	Advanced Apparel Construction	3		
APTX 118	Costume History - Ancient Mesopotamia Through the Nineteeth Century	3		
APTX 119	Advertising & Promotion for Merchandising Environments	3		
APTX 212	Textiles	3		
APTX 217	20th Century Costume History	3		APTX 118
APTX 218	Merchandising Field Experience	3		APTX 119, 220 and 221
APTX 220	Merchandising I	3		APTX 100, MATH 100 or higher
APTX 221	Merchandising II	3		
Total Credit	Hours Required	66-67		
APTX 40 This course is r	Fundamentals of Apparel Construction ecommended for those students who have no sewing experience.	0-1		
	niversity of Missouri: ECON 211			

Apparel and Textiles

Merchandising Entrepreneurship Certificate

	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 101	Accounting Principles I	3		
BSAD 205	Marketing	3		
BSAD 219	Entrepreneurship	3		
APTX 100	Introduction to Apparel Studies	3		
APTX 111	Aesthetics and Design for Apparel and Textiles	3		
APTX 119	Visual Merchandising	3		
APTX 212	Textiles	3		
APTX 218	Merchandising Field Experience	3		APTX 119, 220 & 221
APTX 220	Merchandising I	3		APTX 100, MATH 100 or above
Elective: choo	se from list of courses below:			
BSAD 109	Principles of Supervision	,		
BSAD 120	Organizational Behavior	3		
BSAD 204	Business Management			
Total Credit	Hours Required	31		

Product Development and Design Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
APTX 130	Fashion Illustration and Technical Drawing	3		
APTX 100	Introduction to Apparel Studies	3		
APTX 111	Aesthetics and Design for Apparel and Textiles	3		
APTX 112	Apparel Construction	3		
APTX 113	Advanced Apparel Construction	3		
APTX 211	Pattern Design - Flat Pattern	3		
APTX 212	Textiles	3		
APTX 215	Pattern Design - Draping	3		
APTX 225	Pattern Design - CAD	3		
APTX 275	Portfolio Presentation	3		APTX 211, 215
Total Credit	Hours Required	31		

Audio Engineering

Offered at Kansas City Kansas Community College Coordinated at MCC

A.A.S. Audio Engineering 62-65 Credits

This is a terminal degree program for students who wish to find employment in a recording-related aspect of the music business or who wish to transfer to another school and pursue a bachelor's degree in a field such as music composition or music technology. Because requirements differ by institution, students wishing to transfer should check with the music faculty or the transfer institution regarding variations in this degree program.

Students must be accepted into the program by both MCC and KCKCC. The student is awarded the degree from KCKCC upon successful completion of all requirements.

Program courses and credit hours are subject to change because of requirement changes at the degree-granting institution. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Audio Engineering

Specific Prog	gram Requirements n at one of the MCC campuses	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3	10.1.011	ENGL 30 or appropriate placement test score
ENGL 102 ENGL 215	Composition and Reading II or Technical Writing	3		ENGL 101
SPDR 100 SPDR 103	Speech or Interpersonal Communications	3		ENGL 101
PSYC 140 SOCI 160	General Psychology or Sociology	3		
MATH 120	College Algebra or higher	3		MATH 110 or appropriate placement test
MUSI 108	Music Appreciation	3		
Must be take	gram Requirements n at Kansas City Kansas Community College			
HUDV 100/10	1Strategies for Excellence/Lifelong Learning	1-2		
AUDIO 108	Electronic Circuit Fundamentals	3		
AUDIO 115	Circuit Analysis 1	3		
AUDIO 110	Music Technology 1	3		
AUDIO 130	Music Business	3		
AUDIO 150	Live Sound Reinforcement 1	1		
AUDIO 151	Live Sound Reinforcement 2	1		
AUDIO 170	Lighting & Staging	3		
AUDIO 230	Multimedia Production	3		
AUDIO 250	Audio Recording 1	3		
AUDIO 255	Audio Engineering Critical Listening	1		
AUDIO 260	Audio Recording 2	3		
AUDIO 270	Audio Recording 3	3		
AUDIO 280	Audio Engineering Portfolio 1	1		
AUDIO 281	Audio Engineering Portfolio 2	1		
AUDIO 210 AUDIO 240 AUDIO 258	Music Technology 2 or Sound Editing & Synthesis or Applied Audio for Media	3		
Music Requi	rements			
AUDIO 101 MUSC 111	Audio Engineering Music Skills (at KCKCC) or Music Theory 1 (at MCC or KCKCC)	4		
AUDIO 103	Audio Engineering Keyboard Skills (at KCKCC) or Piano Class (at MCC or KCKCC) or Applied Piano (at MCC or KCKCC)			
Natural and	Physical Science Requirements			
NSAC 130 PHYS 101	Introductory Physics (at KCKCC) or Introductory Physics (at MCC)	3-5		
Total Credit	Hours Required	62-65		

Offered at MCC-Longview

A.A.S. Automotive Technology

Collision Repair Technology	73 Credits
Ford/ASSET	78-84 Credits
General Motors/ASEP	78-84 Credits
Industrial Mechanic	63-65 Credits
Mechanical	68-74 Credits

Certificates

Automotive Service, Maintenance	and Light Repair
	16-20 Credits
Automotive Technology	50 Credits
Collision Repair Technology	44 Credits

Automotive Technology programs can lead to an Associate in Applied Science degree, but many students take classes for job enhancement or personal interest. Either way, our automotive classes prepare students for jobs in the automotive industry.

The Mechanical Option prepares students to work in dealerships, service centers, or independent repair facilities. The Collision Repair Technology Option, which includes courses offered by participating articulation agreement schools, prepares students to work as collision repair technicians.

Two additional degree options include *General Motors ASEP Option* and the *Ford ASSET Option*. (Note: These 2 programs have special admission requirements.)

 $\label{thm:continuous} The Automotive \ Technology \ Department \ also \ offers \ three \ certificate \ programs.$

A.A.S. Automotive Collision Repair Technology

AUTO 125 Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Polinishing AUTO 141 Automotive Polinishing Collision Repair Accepted into the articulation program for Automotive Polinishing	General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 102 Composition and Reading II HIST 120 United States History to 1865 or HIST 121 United States History since 1865 or POLS 135 Introduction to Political Science or POLS 135 Introduction to Political Science or POLS 137 Introduction to State and Local Politics or POLS 137 Introduction to State and Local Politics MATH 100 Mathematics for Business 3 MATH 20 or 20L or appropriate placement tes score PHYS 104 Foundations of Physical Science or PHYS 104 Foundations of Physical Science or PHYS 101 Introductory Physics SPDR 100 Fundamentals of Speech Specific Program Requirements BSAD 100 Introduction to Accounting BSAD 100 Introduction to Accounting BSAD 109 Principles of Supervision BHSS 100 Intro to Environmental Health and Safety AUTO 100 Intro to Automotive Services AUTO 166 Automotive Electrical Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 and 166 Specific Program Requirements Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Aut Collision Repair AUTO 135 Plastics and Adhesives 3 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair AUTO 140 Automotive Painting 4 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair AUTO 140 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair AUTO 140 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair		Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 United States History to 1865 or HIST 121 United States History to 1865 or POLS 136 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 100 Mathematics for Business MATH 20 or 20L or appropriate placement tes score PHYS 101 Foundations of Physical Science or PHYS 101 Introductory Physics SPDR 100 Fundamentals of Speech SPDR 100 Fundamentals of Speech SPDR 100 Introduction to Accounting BSAD 101 Introduction to Accounting BSAD 102 Principles of Supervision BHSAD 103 Intro to Environmental Health and Safety AUTO 100 Intro to Automotive Services AUTO 166 Automotive Electrical Systems AUTO 126 Automotive Chassis Systems AUTO 127 Automotive Chassis Systems AUTO 128 Structural Analysis and Damage Repair AUTO 129 MIG and Structural Welding AUTO 130 Non-Structural Analysis and Damage Repair AUTO 131 Plastics and Adhesives AUTO 141 Automotive Peliciting	ENGL 215	Technical Writing or	2		ENCL 101
HIST 121 United States History since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to Authoritics or Introduction to State and Local Politics or POLS 137 Introduction to State and Local Politics or Introduction to State and Local Politics or POLS 137 Introduction to State and Local Politics or Introduction to State and Local Politics or POLS 137 Introduction to State and Local Politics or Score Score PHYS 104 Foundations of Physical Science or PHYS 105 Introductory Physics SPDR 106 Fundamentals of Speech Specific Program Requirements SSAD 100 Fundamentals of Speech Specific Program Requirements SSAD 100 Introduction to Accounting 3 ENGL 30 or appropriate placement test score Specific Program Requirements 3 SAD 100 Intro to Environmental Health and Safety 3 SAD 100 Intro to Automotive Services 2 AUTO 100 Intro to Automotive Services 2 AUTO 100 Intro to Automotive Services 4 AUTO 100 Intro to Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 264 Automotive Automotive Automotive Services AUTO 264 Automotive Auto	ENGL 102	Composition and Reading II	٥		ENGL 101
POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 100 Mathematics for Business 3 MATH 20 or 20L or appropriate placement test score PHYS 104 Foundations of Physical Science or PHYS 101 Introductory Physics 5 ESPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements BSAD 100 Introduction to Accounting 3 ENGD 100 Introduction to Accounting 3 ENGD 100 Introduction to Accounting 3 ENGD 100 Intro to Environmental Health and Safety 3 ENGD 100 Intro to Environmental Health and Safety 3 ENGD 100 Intro to Environmental Health and Safety 3 ENGD 101 Intro to Automotive Services 2 ENGD 101 Intro to Automotive Desisis Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 and 166 Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Collision Repair Auto 120 MIG and Structural Welding 3 Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Auto 135 Plastics and Adhesives 3 Accepted into the articulation program for Aut Collision Repair Auto 140 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted					
POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 100 Mathematics for Business 3 MATH 20 or 20L or appropriate placement test score PHYS 104 Foundations of Physical Science or PHYS 101 Introductory Physics 5 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements					
POLS 137 Introduction to State and Local Politics MATH 100 Mathematics for Business 3 MATH 20 or 20L or appropriate placement test score PHYS 104 Foundations of Physical Science or PHYS 101 Introductory Physics 5 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements BSAD 100 Introduction to Accounting 3 BSAD 100 Principles of Supervision 3 EHSS 100 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Automotive Services 2 AUTO 166 Automotive Electrical Systems 6 AUTO 1071 Automotive Chassis Systems 6 AUTO 171 Automotive Chassis Systems 6 AUTO 171 Automotive Automotiv			3		
MATH 100 Mathematics for Business PHYS 104 Foundations of Physical Science or PHYS 101 Introductory Physics SPDR 100 Fundamentals of Speech Specific Program Requirements BSAD 100 Introduction to Accounting BSAD 100 Introduction to Accounting BSAD 100 Introduction to Accounting BSAD 100 Intro to Environmental Health and Safety AUTO 100 Intro to Automotive Services 2 AUTO 100 Intro to Automotive Services AUTO 171 Automotive Chassis Systems AUTO 172 Automotive					
PHYS 104 Foundations of Physical Science or PHYS 101 Introductory Physics 5 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements BSAD 100 Introduction to Accounting 3 BSAD 109 Principles of Supervision 3 EHSS 100 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Automotive Services 2 AUTO 166 Automotive Electrical Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 264 Automotive Air Conditioning 4 AUTO 100 and 166 Specific Program Requirements 8 Provided by participating articulation agreement schools 4 AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Aut Collision Repair AUTO 130 Non-Structural Analysis and Damage Repair 6 ACCEPted into the articulation program for Aut Collision Repair ACCEPted into the articulation program for Aut Collision Repair ACCEPted into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Collision Repair ACCEPTED Into the articulation program for Aut Automotive Painting Accepted into the articul	POLS 137	Introduction to State and Local Politics			
PHYS 101 Introductory Physics SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements BSAD 100 Introduction to Accounting 3 BSAD 109 Principles of Supervision 3 EHSS 100 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Automotive Services 4 AUTO 166 Automotive Electrical Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 264 Automotive Air Conditioning 4 AUTO 100 and 166 Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Automotive Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 130 Plastics and Adhesives 3 Accepted into the articulation program for Automotive Painting AUTO 140 Automotive Painting 4 Accepted into the articulation program for Automotive Automotive Painting AUTO 141 Automotive Painting 4 Accepted into the articulation program for Automotive Painting Automotive Painting Accepted into the articulation program for Automotive Painting Accepted into the Accepted into the articulation program for Automotive Painting Accepted into the Accept	MATH 100	Mathematics for Business	3		
SPDR 100 Fundamentals of Speech Specific Program Requirements BSAD 100 Introduction to Accounting BSAD 100 Introduction to Accounting BSAD 100 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Automotive Services 4 AUTO 166 Automotive Electrical Systems 4 AUTO 171 Automotive Chassis Systems 5 AUTO 172 Automotive Air Conditioning 5 AUTO 185 Structural Analysis and Damage Repair AUTO 120 MIG and Structural Welding 3 AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting 4 AUTO 141 Automotive Painting 4 AUTO 141 Automotive Refinishing 4 AUTO 144 Automotive Painting 4 AUTO 144 Automotive Painting 4 Automotive Painting 4 Accepted into the articulation program for Automotive Repair Accepted into the articulation program for Automotive Painting Accepted into the articulation program for Automotive Repair Accepted Into the Accepted In			5		
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BSAD 100 Introduction to Accounting BSAD 109 Principles of Supervision BSAD 109 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Automotive Services 4 AUTO 166 Automotive Electrical Systems 6 AUTO 100 or concurrent enrollment AUTO 171 Automotive Chassis Systems 6 AUTO 100 or concurrent enrollment AUTO 264 Automotive Air Conditioning 4 AUTO 100 and 166 Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Aut Collision Repair AUTO 135 Structural Analysis and Damage Repair 6 AUTO 136 Non-Structural Analysis and Damage Repair 6 AUTO 137 Plastics and Adhesives 3 Accepted into the articulation program for Aut Collision Repair AUTO 140 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair AUTO 141 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair ACCEPTED INTO AUTOMOTIVE Painting 4 Accepted into the articulation program for Aut Collision Repair ACCEPTED INTO AUTOMOTIVE Painting 4 Accepted into the articulation program for Aut Collision Repair ACCEPTED INTO AUTOMOTIVE Painting 4 Accepted into the articulation program for Aut Collision Repair ACCEPTED INTO AUTOMOTIVE Painting 4 Accepted into the articulation program for Aut Collision Repair ACCEPTED INTO AUTOMOTIVE Painting ACCEPTED INTO AUTOMOTIVE Painting ACCEPTED INTO AUTOMOTIVE Painting ACCEPTED INTO AUTOMOTIVE Painting Accepted into the articulation program for Automotive Painting Accepted			3		ENGL 30 or appropriate placement test score
BSAD 109 Principles of Supervision EHSS 100 Intro to Environmental Health and Safety 3 AUTO 100 Intro to Automotive Services 2 AUTO 106 Automotive Electrical Systems 6 AUTO 171 Automotive Chassis Systems 6 AUTO 172 Automotive Automotive Air Conditioning 4 AUTO 100 or concurrent enrollment AUTO 173 Automotive Air Conditioning 4 AUTO 100 and 166 Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Automotive Air Collision Repair AUTO 125 Structural Analysis and Damage Repair 6 AUTO 130 Non-Structural Analysis and Damage Repair 6 AUTO 130 Non-Structural Analysis and Damage Repair 6 AUTO 135 Plastics and Adhesives 3 AUTO 140 Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting Accepted into the articulation program for Automotive Paint	Specific Pro				
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AUTO 100 Intro to Automotive Services AUTO 166 Automotive Electrical Systems AUTO 171 Automotive Chassis Systems AUTO 264 Automotive Air Conditioning Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding AUTO 125 Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Refinishing		Principles of Supervision			
AUTO 166 Automotive Electrical Systems 6 AUTO 171 Automotive Chassis Systems 6 AUTO 172 Automotive Chassis Systems 6 AUTO 173 Automotive Air Conditioning 7 AUTO 264 Automotive Air Conditioning 8 AUTO 100 and 166 8 AUTO 100	EHSS 100	Intro to Environmental Health and Safety	3		
AUTO 171 Automotive Chassis Systems AUTO 264 Automotive Air Conditioning 4 AUTO 100 or concurrent enrollment AUTO 264 Automotive Air Conditioning 4 AUTO 100 and 166 Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Automotive Repair AUTO 125 Structural Analysis and Damage Repair 6 Accepted into the articulation program for Automotive Repair AUTO 130 Non-Structural Analysis and Damage Repair 6 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 5 Accepted into the articulation program for Automotive Painting 6 Accepted into the articulation program for Automotive Painting 7 Accepted into the articulation program for Automotive Painting 8 Accepted into the articulation program for Automotive Painting 9 Accepted into the articulation program for Automotive Painting 9 Accepted into the articulation program for Automotive Painting Paginishing	AUTO 100	Intro to Automotive Services	2		
AUTO 264 Automotive Air Conditioning AUTO 100 and 166 Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding AUTO 125 Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Refinishing AUTO 144 Automotive Refinishing AUTO 145 Automotive Refinishing AUTO 146 Automotive Refinishing AUTO 147 Automotive Refinishing AUTO 147 Automotive Refinishing	AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment
Specific Program Requirements Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding AUTO 125 Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Polinishing Accepted into the articulation program for Autocollision Repair	AUTO 171	Automotive Chassis Systems	6		AUTO 100 or concurrent enrollment
Provided by participating articulation agreement schools AUTO 120 MIG and Structural Welding 3 Accepted into the articulation program for Aut Collision Repair AUTO 125 Structural Analysis and Damage Repair 6 Accepted into the articulation program for Aut Collision Repair AUTO 130 Non-Structural Analysis and Damage Repair 6 Accepted into the articulation program for Aut Collision Repair AUTO 135 Plastics and Adhesives 3 Accepted into the articulation program for Aut Collision Repair AUTO 140 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair AUTO 141 Automotive Politicipa	AUTO 264	Automotive Air Conditioning	4		AUTO 100 and 166
AUTO 120 MIG and Structural Welding AUTO 125 Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Repairs ACcepted into the articulation program for Autocollision Repair					
AUTO 125 Structural Analysis and Damage Repair AUTO 125 Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Repair Collision Repair Accepted into the articulation program for Automotive Painting Accepted into the articulation program for Automotive Repair	Provided by	participating articulation agreement schools			
AUTO 130 Non-Structural Analysis and Damage Repair AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives AUTO 140 Automotive Painting AUTO 141 Automotive Polinishing Collision Repair Accepted into the articulation program for Automotive Painting Automotive Polinishing Accepted into the articulation program for Automotive Polinishing Automotive Polinishing Accepted into the articulation program for Automotive Polinishing Accepted into the articulation program for Automotive Polinishing	AUTO 120	MIG and Structural Welding	3		Accepted into the articulation program for Auto Collision Repair
AUTO 130 Non-Structural Analysis and Damage Repair AUTO 135 Plastics and Adhesives 3 Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut Collision Repair Accepted into the articulation program for Aut	AUTO 125	Structural Analysis and Damage Repair	6		Accepted into the articulation program for Auto Collision Repair
AUTO 135 Plastics and Adhesives 3 Accepted into the articulation program for Aut Collision Repair AUTO 140 Automotive Painting 4 Accepted into the articulation program for Aut Collision Repair AUTO 141 Automotive Polinishing 4 Accepted into the articulation program for Automotive Regiments Accepted into the Automotiv	AUTO 130	Non-Structural Analysis and Damage Repair	6		Accepted into the articulation program for Auto Collision Repair
AUTO 141 Automotive Painting 4 Collision Repair AUTO 141 Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the articulation program for Automotive Painting 4 Accepted into the Automotive Paintin	AUTO 135	Plastics and Adhesives	3		Accepted into the articulation program for Auto
	AUTO 140	Automotive Painting	4		
Collision Repair	AUTO 141	Automotive Refinishing	4		Accepted into the articulation program for Auto Collision Repair
Total Credit Hours Required 73	Total Credi	t Hours Required	73		

The Collision Repair Technology Option, which includes courses offered by participating articulation agreement schools, prepares students to work as collision repair technicians.

A.A.S. Ford/ASSET emphasis

A.A.S. FOIU/ASSET EIIIPITASIS Constal Education Descriptions				
General Edu	cation Requirements	Credits	Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech <i>or</i>	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication			ENGL of appropriate placement test soore
Any course(s)	numbered 100 or above from the following disciplines: ART,			
ANTH, ECON	, ENGL, Foreign Language, GEOG (except 104 & 110), HIST,	3-6		
HUMN, MSC	M, MUSÍ, PHIL, POLS, PŠYĆ, SIGN, SOSĆ, SOCI			
	numbered 100 or above from the following disciplines: BIOL,	3-6		
CHEM, GEO	G (104 & 110), GEOL, MATH, PHYS			
	I General Education Credit Hours	18		
Ford/ASSET				
AUTO 100	Introduction to Automotive Service	2		
				Be enrolled in the Ford emphasis area, maintain
AUTO 105	Cooperative Work Experience I	1 1		a 2.0 GPA, and be approved by by a sponsoring
				dealer
				Be enrolled in the Ford emphasis area, maintain
AUTO 106	Cooperative Work Experience II	1		a 2.0 GPA, and be approved by by a sponsoring
	·			dealer
				Be enrolled in the Ford emphasis area, maintain
AUTO 107	Cooperative Work Experience III	1		a 2.0 GPA, and be approved by by a sponsoring
	·			dealer
				Be enrolled in the Ford emphasis area, maintain
AUTO 108	Cooperative Work Experience IV	1		a 2.0 GPA, and be approved by by a sponsoring
	·			dealer
AUTO 150	Automotive Engine Repair	6		AUTO 100 or concurrent enrollment
AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment
AUTO 171	Automotive Chassis Systems	6		AUTO 100 or concurrent enrollment
AUTO 174	Manual Drivetrain & Axles	4		AUTO 100 or concurrent enrollment
	A.L	_		Be a student in good standing in the Ford ASSET
AUTO 260	Advanced Diagnosis	6		program
AUTO 264	Automotive Air Conditioning	4		AUTO 100 and 166
	<u> </u>			AUTO 100, 166 and one of the following:
AUTO 272	Automatic Transmissions and Transaxles	6		AUTO 150, 171, 174, 276, 279, 280
ALUTO 076	A (AUTO 100, 150 and 166 and concurrent
AUTO 276	Automotive Engine Performance	6		enrollment or completion of AUTO 279
AUTO 279	Automotive Electronic Systems	6		AUTO 100 and 166
				AUTO 100, 150, 166, 171, 174, 264 and 272 and
AUTO 280	Diagnosis and Repair	4		concurrent enrollment or completion of AUTO 276
	-0	'		and 279.
Total Credit	Hours Required	78-84		
. Jun J. Jun				

A.A.S. GM/ASEP emphasis

	A.A.S. GW/AGEF emphasis					
General Edu	cation Requirements	Credits	Taken	Prerequisites		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score		
HIST 120	United States History to 1865 or					
HIST 121	United States History Since 1865 or					
POLS 135	Introduction to Political Science or	3				
POLS 136	Introduction to American National Politics or					
POLS 137	Introduction to State and Local Politics					
SPDR 100	Fundamentals of Speech <i>or</i>	3		ENGL 30 or appropriate placement test score		
SPDR 102	Fundamentals of Human Communication	J		LINGE 30 of appropriate placement test score		
Any course(s)	numbered 100 or above from the following disciplines: ART,					
ANTH, ECON	, ENGL, Foreign Language, GEOG (except 104 & 110), HIST,	3-6				
HUMN, MSCN	II, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI					
Any course(s)	numbered 100 or above from the following disciplines: BIOL,	3-6				
CHEM, GEO	G (104 & 110), GEOL, MATH, PHYS					
Minimum Tota	I General Education Credit Hours	18				
GM/ASEP						
AUTO 100	Introduction to Automotive Service	2				
AUTO 105	Cooperative Work Experience I	1		Be enrolled in the GM emphais area, maintain a		
A010 103	Cooperative vvoik Experience i	'		2.0 GPA and be approved by sponsoring dealer.		
AUTO 106	Cooperative Work Experience II	1		Be enrolled in the GM emphais area, maintain a		
A010 100	Cooperative vvoik Experience ii	ı		2.0 GPA and be approved by sponsoring dealer.		
AUTO 107	Cooperative Work Experience III	1		Be enrolled in the GM emphais area, maintain a		
A010 107	Cooperative work Experience in	Į.		2.0 GPA and be approved by sponsoring dealer.		
AUTO 108	Cooperative Work Experience IV	1		Be enrolled in the GM emphais area, maintain a		
AU10 106	Cooperative vvoik Experience iv	ı		2.0 GPA and be approved by sponsoring dealer.		
AUTO 150	Automotive Engine Repair	6		AUTO 100 or concurrent enrollment		
AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment		
AUTO 171	Automotive Chassis Systems	6		AUTO 100 or concurrent enrollment		
AUTO 174	Manual Drivetrain and Axles	4		AUTO 100 or concurrent enrollment		
ALITO OCO	A disease d Diamentic	_		Be a student in good standing in the General		
AUTO 260	Advanced Diagnosis	6		Motors ASEP program		
AUTO 264	Automotive Air Conditioning	4		AUTO 100 and 166		
AUTO 272	Automatic Transmissions and Transaxles	6		AUTO 100, 166 and one of the following:		
7010212	תענטווומנוכ וזמווסווטווס מווע וזמווסמגוכס	U		AUTO 150, 171, 174, 276, 279, 280		
AUTO 276	Automotive Engine Performance	6		AUTO 100, 150, 166 and concurrent enrollment		
	J			or completion of AUTO 279		
AUTO 279	Automotive Electronic Systems	6		AUTO 100 and 166		
AUTO 280	Diagnosis and Repair	4		AUTO 100, 150, 166, 171, 174, 264 and 272		
	o			Concurrent or completion of AUTO 276 and 279		
Total Credit	Hours Required	78-84				

A.A.S. Automotive Industrial Mechanic Emphasis

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech <i>or</i>	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication	_		ENGE of appropriate placement test score
SPAN 100	Beginning Occupational Spanish	3		
ANTH, ECON	numbered 100 or above from the following disciplines: ART, , ENGL, Foreign Language, SPAN 101, GEOG, 110), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SOCI	3-5		
	numbered 100 or above from the following disciplines: BIOL, 6 (104 & 110) GEOL, MATH, PHYS	3		
Minimum Tota	I General Education Credit Hours	18-20		
Specific Pro	gram Requirements			
Autmotive Ir	ndustrial Mechanical			
CSOF 100	Introduction to Personal Computing	1		
WELD 100	Introduction to Welding/Cutting Processes	1		
AUTO 150	Automotive Power Plants	6		AUTO 100 or concurrent enrollment
AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment
AUTO 170	Automotive Braking Systems	4		AUTO 100 or concurrent enrollment
AUTO 172	Automotive Suspension and Steering	4		
AUTO 174	Manual Drivetrain and Axle	4		concurrent enrollment or completion of AUTO 100
AUTO 279	Automotive Electronic Systems	6		AUTO 100 and 166
AUTO 160 Dia	agnosis and Repair or			
	nission & Fuel Control System or			AUTO 150, 166, and 176
	esel Diagnosis and Repair or	4-6		AUTO 150, 166, and 176
	Conditioning or	4-0		AUTO 150 and 166
AUTO 272 Au	tomatic Transmission and Transaxles			AO 130 and 100
Mechanic App	renticeship *(Credit by Certification)	8		
	Hours Required	63-65		
* Cadanall	y approved Mechanic approprieschip program that contains a		-F 111 -lI: I	and alarmous and instruction and according

^{*} Federally approved Mechanic apprenticeship program that contains a minimum of 144 clock hours of classroom and instruction and 2000 clock hours of on-the-job training. Transcribed upon the completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

A.A.S. Automotive Technology Mechanical Emphasis

General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication	_		ENGE 30 of appropriate placement test score
	numbered 100 or above from the following disciplines: ART,			
ANTH, ECON	, ENGL, Foreign Language, GEOG (except 104 & 110), HIST,	3-6		
	M, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI			
	numbered 100 or above from the following disciplines: BIOL,	3-6		
	G (104 & 110), GEOL, MATH, PHYS			
	I General Education Credit Hours	18		
	gram Requirements			
AUTO 100	Introduction to Automotive Service	2		
AUTO 150	Automotive Engine Repair	6		AUTO 100 or concurrent enrollment
AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment
AUTO 171	Automotive Chassis Systems	6		AUTO 100 or concurrent enrollment
AUTO 174	Manual Drivetrains and Axles	4		AUTO 100 or concurrent enrollment
AUTO 264	Automotive Air Conditioning	4		AUTO 100 and 166
AUTO 272	Automatic Transmissions and Transaxles	6		AUTO 100, 166 and one of the following:
A010 272	Automatic Transmissions and Transaxies	0		AUTO 150, 171, 174, 276, 279, 280.
AUTO 276	Automotive Engine Performance	6		AUTO 100, 150, and 166 and concurrent
A010 270	Automotive Engine Fenormance	U		enrollment or completion of AUTO 279
AUTO 279	Automotive Electronic Systems	6		AUTO 100 and 166
				AUTO 100, 150, 166, 174, 264, and 272.
AUTO 280	Diagnosis and Repair	4		Concurrent enrollment or completion of AUTO
				276 and 279
Total Credit	Hours Required	68-74		

The Mechanical Option prepares students to work as a technician in dealerships, service centers, independent garages or service stations.

Automotive Service, Maintenance and Light Repair Certificate

Specific Program Requirements		
AUTO 100 Introduction to Automotive Service	2	
AUTO 117 Automotive Service Maintenance and Light Repair	6	AUTO 100 or concurrent enrollment
AUTO 171 Automotive Chassis Systems	6	AUTO 100 or concurrent enrollment
Any other course numbered 100 or above. Note: Students desiring to become Honda Express Tech Certified must take AUTO 201	2-6	
Total Credit Hours Required	16-20	

Automotive Technology Certificate

Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
AUTO 100	Introduction to Automotive Service	2		
AUTO 150	Automotive Engine Repair	6		AUTO 100 or concurrent enrollment
AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment
AUTO 171	Automotive Chassis Systems	6		AUTO 100 or concurrent enrollment
AUTO 174	Maunual Drivetrain and Axles	4		AUTO 100 and 166
AUTO 264	Automotive Air Conditioning	4		AUTO 100 and 166
AUTO 272	Automatic Transmissions and Transaxles	6		AUTO 100, 166, and one of the following: AUTO 150, 171, 174, 276, 279, 280.
AUTO 276	Automotive Engine Performance	6		AUTO 100, 150 and 166 and concurrent enrollment or completion of AUTO 279.
AUTO 279	Automotive Electronic Systems	6		AUTO 100 and 166
AUTO 280	Diagnosis and Repair	4		AUTO 100, 150, 166, 171, 174, 264, and 272. Concurrent enrollment or completion of AUTO 276 and 279.
Total Credi	t Hours Required	50		

Collision Repair Technology Certificate

Specific Pro Provided by	gram Requirements participating articulation agreement schools	Credits	Semester Taken	Prerequisites
AUTO 120	MIG and Structural Welding	3		Accepted into the articulation program for Auto Collision Repair
AUTO 125	Structural Analysis and Damage Repair	6		Accepted into the articulation program for Auto Collision Repair
AUTO 130	Non-Structural Analysis and Damage Repair	6		Accepted into the articulation program for Auto Collision Repair
AUTO 135	Plastics and Adhesives	3		Accepted into the articulation program for Auto Collision Repair
AUTO 140	Automotive Painting	4		Accepted into the articulation program for Auto Collision Repair
AUTO 141	Automotive Refinishing	4		Accepted into the articulation program for Auto Collision Repair
Specific Pro	gram Requirements			
AUTO 100	Introduction to Automotive Service	2		
AUTO 166	Automotive Electrical Systems	6		AUTO 100 or concurrent enrollment
AUTO 171	Automotive Chassis Systems	6		AUTO 100 or concurrent enrollment
AUTO 264	Automotive Air Conditioning	4		AUTO 100 and 166
Total Credi	Hours Required	44		

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Biotechnology

Offered at Johnson County Community College Coordinated at MCC

A.S. Biotechnology	. 76-80 Credits
A.A.S. Biotechnology	. 69-71 Credits
Biotechnology Certificate	. 35-41 Credits

The Biotechnology Associate of Science degree program will prepare students who wish to pursue a baccalaureate degree in the biological sciences. Upon completion of this degree, students will be able to find entry-level or higher positions in the diverse field of biotechnology. Along with the basic and more advanced courses, students will take specialized courses in subjects such as laboratory safety and biotechnology methods. Students must be accepted into the program by both MCC and JCCC. The student is awarded the degree

from JCCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

The Biotechnology Associate in Applied Science degree program will prepare students to work in biotechnology laboratories associated with university medical centers, research institutions, and a variety of industrial applications. The biotechnology certificate is for students seeking employment in the biotechnology industry either in private or academic research laboratories. Students must be accepted into the program by both MCC and JCCC. The student is awarded the degree from JCCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.S. Biotechnology

Specific Dro	gram Daguiromanta		Semester	
	gram Requirements	Credits		Prerequisites
Must be take	n at one of the MCC Campuses		Taken	· ·
CHEM 111	General College Chemistry I	5		MATH 120 or two units of high school Algebra and
		_		CHEM 107 or high school Chemistry
CHEM 112	General College Chemistry II	5		CHEM 111
CHEM 221	Organic Chemistry I	5		CHEM 112
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
HIST 133	Foundation in Western Civilization	3		
MATH 115	Statistics	3		MATH 110 or appropriate placement test score
PHYS 130	General Physics I	5		MATH 130
PHYS 131	General Physics II	5		PHYS 130
SOCI 160	Introduction to Sociology ~ or			
SOCI 163	Social Problems ~ or			
POLS 234	Introduction to International Relations ~	3		
SPDR 100	Fundamentals of Speech	3		
HUMN	Electives	3		See Courses section of this catalog for individual
ECON/Social	Science Electives	3		course prerequisites.
PHED	Elective	1		
BIOL 214	Principles of Genetics	4		BIOL 101 or BIOL 104 or BIOL 106
Must be take	n at Johnson County Community College			
BIOL 135	Principles of Cell & Molecular Biology*	4		
BIOL 150	Biology of Organisms*	5		
BIOT 160	Introduction to Biotechnology*	2		See JCCC course descriptions in the Courses
BIOT 165	Laboratory Safety*	1		section of this catalog for individual course
BIOT 230	Microbiology for Biotechnology	5		prerequisites.
BIOT 260	Biotechnology Methods*	5		
BIOT 265	Biotechnology Internship (Optional)*	4		
	างเหลือนที่ Regulifed ~meets Cultural Diversity Requirement	76-80	Optional course	s do not qualify for in-state tuition rates as part o

Humanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, GERM 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 134, HIST 140, HIST 150, HUMN 103, HUMN 133, HUMN 134, HUMN 140, HUMN 145, MUSI 108, MUSI 160, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128.

MCC/JCCCC requirement

Social Science and Economics Electives that will transfer from MCC to JCCC:

ANTH 100, ANTH 110, ANTH 120, ECON 110, ECON 210, ECON 211, GEOG 111, GEOG 112, POLS 135, POLS 136, POLS 137, POLS 234, PSYC 140, SOCI 160, SOCI 163, SOCI 170, SOCI 220

Health, Physical Education & Recreation Electives that will transfer from MCC to JCCC:

DANC 100, DANC 111, DANC 121, DANC 122, EMS 100, PHED 105, PHED 106, PHED 107, PHED 108, PHED 109, PHED 110, PHED 113, PHED 114, PHED 117, PHED 118, PHED 119, PHED 120, PHED 121, PHED 122, PHED 123, PHED 126, PHED 127, PHED 128, PHED 129, PHED 130, PHED 131, PHED 135, PHED 136, PHED 137, PHED 141, PHED 142, PHED 143, PHED 144, PHED 145, PHED 146, PHED 147, PHED 151, PHED 157, PHED 158, PHED 159, PHED 165, PHED 166, PHED 167, PHED 168, PHED 173, PHED 174, PHED 179, PHED 180

Biotechnology

A.A.S. Biotechnology

	gram Requirements n at one of the MCC Campuses	Credits	Semester Taken	Prerequisites	
BIOL 109	Anatomy & Physiology	6		BIOL 100 or CHEM 105	
CHEM 105 Note: CHEM	Introductory Chemistry for Health Sciences 105 must be taken before BIOL 135, BIOT 160 and BIOT 165	5			
BIOL 214	Principles of Genetics	4		BIOL 101 or BIOL 104 or BIOL 106	
CHEM 205	Organic Chemistry	5		CHEM 105 or CHEM 111	
CSIS 115	Introduction to Microcomputer Applications	3			
ENGL 101	Composition and Reading I	3			
ENGL 215	Technical Writing	3		ENGL 101	
MATH 103	Technical Mathematics I (or higher)	3-5		MATH 40 or 40L	
HUMN	Humanities Elective	3		Con Courses anotion of this estalog for individual	
ECON/Social	Sciences/Economics Elective	3		See Courses section of this catalog for individual	
PHED	Physical Education Elective	1		course prerequisites.	
Must be take	n at Johnson County Community College				
BIOL 135	Principles of Cell & Molecular Biology*	4			
BIOL 145	Human Anatomy and Physiology Dissection*	1			
BIOT 160	Introduction to Biotechnology*	2		0 1000 di-ti i- th 0	
BIOT 165	Laboratory Safety*	1		See JCCC course descriptions in the Courses	
BIOT 260	Biotechnology Methods*	5		section of this catalog for individual course pre-	
BIOT 265	Biotechnology Internship*	4		requisites.	
BIOT 230	Microbiology (JCCC)*	3			
PHYS 133	Applied Physics*	5			
Total Credit	Hours Required	69-71			

Humanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, GERM 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 134, HIST 140, HIST150, HUMN 103, HUMN 133, HUMN 134, HUMN 140, HUMN 145, MUSI 108, MUSI 160, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128

Health, Physical Education & Recreation Electives that will transfer from MCC to JCCC:

DANC 100, DANC 111, DANC 121, DANC 122, EMS 100, PHED 105, PHED 106, PHED 107, PHED108, PHED 109, PHED 110, PHED 113, PHED 114, PHED 117, PHED 118, PHED 119, PHED 120, PHED 121, PHED 122, PHED 123, PHED 126, PHED 127, PHED 128, PHED 129, PHED 130, PHED 131, PHED 135, PHED 136, PHED 137, PHED 141, PHED 142, PHED 143, PHED 144, PHED 145, PHED 146, PHED 147, PHED 151, PHED 157, PHED 158, PHED 159, PHED 165, PHED 166, PHED 167, PHED 168, PHED 173, PHED 174, PHED 178, PHED 179, PHED 180

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Social Science and Economics Electives that will transfer from MCC to JCCC:

ANTH 100, ANTH 110, ANTH 120, ECON 110, ECON 210, ECON 211, GEOG 111, GEOG 112, POLS 135, POLS 136, POLS 137, POLS 234, PSYC 140, SOCI 160, SOCI 163, SOCI 170, SOCI 220

^{*}Prerequisite/corequisite required

Biotechnology

Biotechnology Certificate					
Specific Program Requirements	Credits	Semester	Prerequisites		
Must be taken at one of the MCC Campuses	Orcuits	Taken	1 Terequisites		
CHEM 105 Introductory Chemistry for Health Sciences	. 5				
Note: CHEM 105 must be taken before BIOL 135, BIOT 160 and BIOT 165	3				
CHEM 205 Organic Chemistry	5		CHEM 105 or CHEM 111		
MATH 103 Technical Mathematics I (or higher)	3-5		MATH 40 or 40L		
Must be taken at Johnson County Community College					
BIOL 135 Principles of Cell & Molecular Biology*	4				
BIOT 160 Introduction to Biotechnology*	2				
BIOT 165 Laboratory Safety*	1		See JCCC course descriptions in the Courses		
BIOT 230 Microbiology* (JCCC)	5		section of this catalog for individual course		
BIOT 260 Biotechnology Methods*	5		prerequisites.		
PHYS 133 Applied Physics*	5				
BIOT 265 Biotechnology Internship (Optional)*	4				
Total Credit Hours Required	35-41				
*Prerequisite/corequisite required					

Business, Management & Technology

Business

Offered at all Campuses

A.A.S. Business	
Accounting	65 Credits
Logistics Management	65 Credits
Management	65 Credits
Office Management	65 Credits

This program offers an Associate in Applied Science degree with emphasis areas in accounting, logistics management, management and office management.

A.A.S. Business Accounting Emphasis

	First Year Seminar	1		
General Educ	cation Requirements	Credits	Semester Taken	Prerequisites
ECON 210	Macroeconomics	3		MATH 40/40L or appropriate placement test score
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 100 MATH 110	Mathematics for Business or Intermediate Algebra or higher	3		MATH 20/20L or appropriate placement test score (MATH 100) MATH 40/40L or appropriate placement test score (MATH 110)
PSYC 140	General Psychology <i>or</i>	3		
SOCI 160	Sociology	J		
SPDR 100	Fundamentals of Speech <i>or</i>	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication			El voe de appropriate placement test score
	ram Requirements			
	Accounting Principles I	3		
BSAD 204	Business Management	3		
BSAD 205	Marketing	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement test score
BSAD 254	Business Law I or			
BSAD 255	Business Law II or	3		
	Legal Environment of Business			
	Intro to Microcomputer Applications	3		
	Any course numbered 100 or above	6		
	hasis Requirements			
Accounting				
	Accounting Principles II	3		BSAD 101
	Accounting Information Systems	3		BSAD 101
BSAD 154	Managerial Accounting	3		BSAD 101
BSAD 155	Accounting Using Spreadsheet	3		BSAD 101
BSAD 202	Intermediate Accounting I	3		BSAD 102
BSAD 252	Individual Income Tax	3		BSAD 101
BSAD 290	Business Capstone	1		
BSAD Elective		3		
Total Credit	Hours Required	65		

Business

A.A.S. Business Logistics Management Emphasis

	First V- = 0 0 min = 1	1 4		
COLL 100	First Year Seminar	1	0	
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ECON 210	Macroeconomics	3		MATH 40/40L or appropriate placement test score
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
MATH 100 MATH 110	Mathematics for Business or Intermediate Algebra or higher	3		MATH 20/20L or appropriate placement test score (MATH 100) MATH 40/40L or appropriate placement test score (MATH 110)
PSYC 140 SOCI 160	General Psychology or Sociology	3		
SPDR 100 SPDR 102	Fundamentals of Speech <i>or</i> Fundamentals of Human Communication	3		ENGL 30 or appropriate placement test score
Specific Pro	gram Requirements			
BSAD 101	Accounting Principles I	3		
BSAD 204	Business Management	3		
BSAD 205	Marketing	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement test score
BSAD 254 BSAD 255 BSAD 270	Business Law I or Business Law II or Legal Environment of Business	3		
CSIS 115	Intro to Microcomputer Applications	3		
Electives	Any course numbered 100 or above	6		
Logistics Ma	inagement			
BSAD 210	Logistics Management	3		
BSAD 211	Operations Management	3		
BSAD 212	Transportation Operations and Management	3		
BSAD 213	Warehouse and Distribution Centers	3		
BSAD 290	Business Capstone	1		
BSAD Elective		9		
Total Credit	Hours Required	65		

Business

A.A.S. Business Management Emphasis

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ECON 210	Macroeconomics	3		MATH 40/40L or appropriate placement test score
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
MATH 100 MATH 110	Mathematics for Business or Intermediate Algebra or higher	3		MATH 20/20L or appropriate placement test score (MATH 100) MATH 40/40L or appropriate placement test score (MATH 110)
PSYC 140 SOCI 160	General Psychology <i>or</i> Sociology	3		
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication	•		and a draw appropriate placement took occident
	gram Requirements			
BSAD 101	Accounting Principles I	3		
BSAD 204	Business Management	3		
BSAD 205	Marketing	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement test score
BSAD 254 BSAD 255 BSAD 270	Business Law I or Business Law II or Legal Environment of Business	3		
CSIS 115	Intro to Microcomputer Applications	3		
Electives	Any course numbered 100 or above	6		
Managemen	t			
BSAD 105	Human Resources Management	3		
BSAD 109	Principles of Supervision	3		
BSAD 120	Organizational Behavior	3		
BSAD 127	Management Internship I	3		
BSAD 128	Management Internship II	3		BSAD 127
BSAD 290	Business Capstone	1		
BSAD Elective		6		
Total Credit	Hours Required	65		

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Business

A.A.S. Business Office Management Emphasis

/ \./ \.O. Du	siness Office Management Emphasis			
COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ECON 210	Macroeconomics	3		MATH 40/40L or appropriate placement test score
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
MATH 100 MATH 110	Mathematics for Business or Intermediate Algebra or higher	3		MATH 20/20L or appropriate placement test score (MATH 100) MATH 40/40L or appropriate placement test score (MATH 110)
PSYC 140 SOCI 160	General Psychology or Sociology	3		
SPDR 100	Fundamentals of Speech or	2		ENGL 20 as assumption also assume that are a
SPDR 102	Fundamentals of Human Communication	3		ENGL 30 or appropriate placement test score
Specific Pro	gram Requirements			
BSAD 101	Accounting Principles I	3		
BSAD 204	Business Management	3		
BSAD 205	Marketing	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement test score
BSAD 254 BSAD 255	Business Law I or Business Law II or	3		
BSAD 270	Legal Environment of Business			
CSIS 115	Intro to Microcomputer Applications	3		
Electives	Any course numbered 100 or above	6		
Office Mana				
BSAD 103	Business English	3		ENGL 30 or appropriate placement test score
BSAD 161	Professional Development and Business Careers	3		
BSAD 190	Office Management	3		
CSIS 103	Document Processing I	3		
CSIS 104	Document Processing II	3		CSIS 103
CSIS 116	Introduction to Desktop Publishing	3		CSIS 103 or 115
BSAD 290	Business Capstone	1		
BSAD Electi	ives	3		
Total Credit	t Hours Required	65		

Human Services

Child Growth and Development

Offered at MCC-Penn Valley

A.A.S. CDCG	66-68 Credits
Child Growth & Development	
Certificate	31 Credits

This program, which leads to either an Associate in Applied Science degree or a certificate of proficiency, prepares students for jobs in child care. Requirements for the degree and certificate are listed below.

Admission to the Program

To be admitted to the program, students must complete the following application process:

- 1. Attend Child Growth and Development Orientation. Contact the Child Growth and Development Department for scheduled orientations.
- 2. Complete a "Request for Child Abuse or Neglect/Criminal Record." (Every student must complete this process, which involves completing a form, paying the MDHSS fee and mailing the complete form. Information received by MCC-Penn Valley pertinent to this process will be used solely for MCC-Penn Valley's internal purposes in determining the suitability of the applicant for admission to the program.
- 3. Complete the MCC-Penn Valley admissions process.

For more information, go to www.mcckc.edu/cdcg

A.A.S. Child Growth & Development

COLL 100 First Year Seminar		1		
General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101 Composition and Reading		3		ENGL 30 or appropriate placement test score
HIST 120 United States History to 1				
HIST 121 United States History Since				
POLS 135 Introduction to Political Sc		3		
POLS 136 Introduction to American N				
POLS 137 Introduction to State and I				
SPDR 100 Fundamentals of Speech		3		ENGL 30 or appropriate placement test score
SPDR 102 Fundamentals of Human (0		ENGE 30 of appropriate placement test score
General Education Electives: Any course(
following disciplines: ART, ANTH, ECON,		3-5		
(except 104, 110 and GIS Courses), HIST, I	HUMN, MSCM, MUSI, PHIL, POLS,			
PSYC, SIGN, SOSC, SOCI, SPDR.				
General Education Electives: Any course	(s) numbered 100 or above from	_		
the following disciplines: BIOL, CHEM, G	EOG (104 & 110), GEOL,	3-5		
MATH, PHSC, PHYS				
Total General Education Requirem	ents	18		
Specific Emphasis Requirements				
CDCG 101 Fundamentals of Early Ca	re and Education	3		ENGL 30 or appropriate placement test score, or concurrent enrollment
CDCG 110 Child Health, Safety and N	Nutrition	3		ENGL 30 or appropriate placement test score
CDCG 113 Child Growth and Develop		3		CDCG 101, ENGL 30 or appropriate placement test score
CDCG 128 Curriculum in Early Childh	ood Education	3		CDCG 113
CDCG 132 Learning Environment I	COG EddCattOff	3		ENGL 30 or appropriate placement test score
CDCG 149 Child Development Interns	shin I	3		CDCG 113, ENGL 101
CDCG 201 Language Development	stilp i	3		CDCG 113, ENGL 101
CDCG 213 Child Growth & Development	ent II	3		CDCG 149 or concurrent enrollment
CDCG 217 Literature for Children	ent n	3		ENGL 30 or appropriate placement test score
CDCG 220 Child Care Management		3		CDCG 110, 113 and 132
CDCG 236 Learning Environments II		3		CDCG 110, 113 and 132
CDCG 255 Child Development Interns	phin II	3		CDCG 213 CDCG 236 or concurrent enrollment
CDCG 260 Education of the Exception		3		CDCG 236 of concurrent enfoliment
CDCG 260 Education of the Exception CDCG 262 Families, Early Care, and		3		
CDCG 270 Portfolio Design	Communities	2		ENGL 30 or appropriate placement test score
CDCG 270 PORIONO DESIGN				Final semester in AAS program
HUSC 100 Careers in Human Science	es	3		ENGL 30 or appropriate placement test score, or concurrent enrollment
Total Credit Hours Required		66-68		

Child Growth and Development

Child Growth and Development Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
SPDR 100 SPDR 102	Fundamentals of Speech or Fundamentals of Human Communication	3		ENGL 30 or appropriate placement test score
CDCG 101	Fundamentals of Early Care and Education	3		
CDCG 110	Child Health, Safety and Nutrition	3		
CDCG 113	Child Growth and Development I	3		CDCG 101
CDCG 128	Curriculum in Early Childhood Education	3		
CDCG 132	Learning Environments I	3		
CDCG 149	Child Development Internship I	3		CDCG 113
CDCG 217	Literature for Children	3		
HUSC 100	Careers in Human Sciences	3		
Total Credit	Hours Required	31		

Industrial & Engineering Technology

Computer Aided Drafting & Design Technology

Offered at MCC-Business & Technology

A.A.S. Computer Aided Drafting & Design
Technology69-70 Credits
Computer Aided Drafting
& Design Certificate17-19 Credits

This program leads to an Associate in Applied Science degree and certificate. The degree prepares the student for employment in a broad range of engineering, architectural and related fields. Graduates will have a strong background with multiple computer aided design technologies and an understanding of basic design principles in various engineering and architectural fields. This program transfers to area universities if the student wishes to pursue a four-year degree in Computer Aided Drafting and Design.

A.A.S. Computer Aided Drafting and Design Technology

General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 120	College Algebra and			MATH 110 (MATH 120)
MATH 130	Trigonometry	5-6		MATH 120 (MATH 130)
	or	3-0		MATH 110 or appropriate placement test score
MATH 150	Precalculus			(MATH 150)
PHYS 130	General Physics I	5		MATH 130 (PHYS 130)
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	gram Requirements			
EHSS 111	Introduction to Health & Safety for General Industry or	1		
EHSS 112	Introduction to Health & Safety for Construction	·		
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L
ETEC 153	Descriptive Geometry	3		ETEC 152
ETEC 170	CADD I, Microstation	3		ETEC 152
ETEC 200	Applied Statics & Mechanics	3		MATH 104 or 130
ETEC 210	Introduction to Commercial Architecture	3		ETEC 152
ETEC 211	Building Information Modeling, Revit	3		ETEC 210 or concurrent enrollment
ETEC 258	Introduction to Mechanical Design	3		ETEC 152
ETEC 265	Introduction to Civil Design	3		ETEC 152
ETEC 268	Intro to Structural Design	3		ETEC 152
ETEC 269	CADD II	4		ETEC 152 or 169
ENGR 101	Introduction to the Profession	1		
ETEC 270	Parametric Modeling, Inventor	3		ETEC 152 or concurrent enrollment
ETEC 271	Parametric Modeling, Solidworks	3		ETEC 152 or concurrent enrollment
ETEC 272	Advanced Parametric Modeling, Inventor or	3		ETEC 270
ETEC 273	Advanced Parametric Modeling, Solidworks			ETEC 271
ETEC 290	Internship in Engineering Technolgy or	3		ETEC 152 (ETEC 290)
ETEC 295	Capstone Project in Engineering Technology	-		ETEC 152, 269, 270, or 271 (ETEC 295)
Total Credit	Hours Required	69-70		

Computer Aided Drafting & Design Technology

Computer Aided Drafting and Design Certificate

Specific Pro	gram Requirements	Credits	Semester	Prerequisites
Specific 1 10	gram requirements	Ciedits	Taken	i rerequisites
ENGR 101	Intro to the Profession	1		
ETEC 152	Engineering Graphics and CADD I or	3-5		MATH 40/40L or appropriate placement test score
ETEC 169	CADD I	3-5		MATH 40/40L of appropriate placement test score
ETEC 269	CADD II	4		ETEC 152 or 169
Choose 3 cou	urses from the following:			ETEC 152
ETEC 170	CADD I, Microstation			ETEC 210 or concurrent enrollment
ETEC 211	Building Information Modeling, Revit			ETEC 152 or concurrent enrollment
ETEC 270	Parametric Model, Inventor	9		ETEC 152 or concurrent enrollment
ETEC 271	Parametric Modeling, Solidworks			ETEC 132 of concurrent enfollment
ETEC 272	Advanced Parametric Modeling, Inventor			ETEC 270
ETEC 273	Advanced Parametric Modeling, Protoyping Solidworks			ETEC 2/T
Total Credit	t Hours Required	17-19		

Computer Integrated Machining & Manufacturing

Offered at MCC-Business & Technology

Computer Integrated Machining and Manufacturing workers use manual lathes, manual mills and computer numerical control (CNC) equipment to manufacture precision metal parts.

This program, designed by MCC-BT's Precision Machining Consortium industry partners, begins with an intensive, one-semester certificate that prepares students to begin a career in manufacturing and machining

Lathe Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CIMM 100	Introduction to Machining & Manufacturing	3		
CIMM 105	Introduction to Blueprint Reading	1		
CIMM 110	Manual Lathe Operations	3		CIMM 100 on current enrollment
CIMM 120	CNC Programming Fundamentals	2		CIMM 105, CIMM 110 or CIMM 115 or concurrent enrollment
CIMM 121	CNC Lathe Operation Fundamentals	3		CIMM 110 and CIMM 120 or concurrent enrollment
CIMM 150	Lathe Co-Op	3		CIMM 100, 105, 110, 120, 121 or concurrent enrollment
CSOF 100	Introduction to Personal Computing	1		
INTE 124	Employment Strategies for Technical Careers	2		
Total Credit	Hours Required	19		

Mill Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CIMM 100	Introduction to Machining & Manufacturing	3		
CIMM 105	Introduction to Blueprint Reading	1		
CIMM 115	Manual Mill	3		CIMM 100
CIMM 120	CNC Programming Fundamentals	2		CIMM 105 and CIMM 110 or CIM 115 or concurrent enrollment
CIMM 122	CNC Mill Operation Fundamentals	3		CIMM 120
CIMM 151	Mill Co-Op	3		CIMM 100, 105, 115, 120, 122 or concurrent enrollment
CSOF 100	Introduction to Personal Computing	1		
INTE 124	Employment Strategies for Technical Careers	2		
Total Credit	Hours Required	19		

Offered at all campuses

The Associate in Applied Science in Computer Science and Information Systems degree programs are intended to qualify individuals for entry-level positions in computer-related industry.

A.A.S. Computer Science and Inf	formation Systems
CCNP	65-71 Credits
CISCO	65-71 Credits
Security	63-69 Credits
Software Development	
Systems Administration & Enginee	
,	
Web Technologies	

Certificates	
CCNA and CCNP2	9 Credits
CCNA and Security2	4 Credits
CCNA and Technology 3	2 Credits
Cisco Academy 1	7 Credits
Software Development 3	7 Credits
Systems Administration & Engineering	
3	7 Credits
Web Technologies 3	

^{*} Some programs are only offered at one campus. Please see an advisor for more information.

A.A.S. Computer Science and Information Systems: CCNP

COLL 100	First Year Seminar	1		
	ncation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition & Reading I	3		ENGL 30 or appropriate placement score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra or higher Mathematics course	3		MATH 40/40L or appropriate placement score
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement score
SPDR 102	Fundamentals of Human Communications	3		ENGL 30 of appropriate placement score
Any course nu	umbered 100 or above from the following disciplines:			
	ECON, ENGL, Foreign Language, GEOG (except 104 & 10	3-6		
and GIS cours	ses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	3-0		
SOSC, SOCI,				
Any course nu	umbered 100 or above from the following disciplines:	3-6		
BIOL, CHEM,	GEOG (104 & 110), GEOL, MATH 120 or above, PHYS	3-0		
Total Gener	al Education Requirements	18		
	al Education Requirements gram Requirements	18 Credits	Semester Taken	Prerequisites
	<u> </u>			Prerequisites
Specific Prog	gram Requirements	Credits		Prerequisites ENGL 30 or appropriate placement score
Specific Prog	gram Requirements Organizational Behavior	Credits 3		·
Specific Prog BSAD 120 BSAD 221	gram Requirements Organizational Behavior Business Communications	Credits 3 3		·
Specific Prog BSAD 120 BSAD 221 CSIS 110	Gram Requirements Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications	Credits 3 3 3		·
Specific Prod BSAD 120 BSAD 221 CSIS 110 CSIS 115	Gram Requirements Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications	Credits 3 3 3		·
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea	Credits 3 3 3 3		ENGL 30 or appropriate placement score
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea Microcomputer Hardware Concepts	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		ENGL 30 or appropriate placement score CSIS 110
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar CSIS 111 CSIS 112	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I	Credits 3 3 3 3 4		ENGL 30 or appropriate placement score CSIS 110 CSIS 110 or CSIS 115
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar CSIS 111 CSIS 112 CSIS 113	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II	3 3 3 3 4 4 4		ENGL 30 or appropriate placement score CSIS 110 CSIS 110 or CSIS 115 CSIS 112
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar CSIS 111 CSIS 112 CSIS 113 CSIS 212	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II LAN Switching and Wireless CCNA Exploration III	3 3 3 3 4 4 4 4 4		CSIS 110 CSIS 110 or CSIS 115 CSIS 112 CSIS 113
Specific Production Pr	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II LAN Switching and Wireless CCNA Exploration III Accessing the WAN CCNA Exploration IV	3 3 3 3 4 4 4 4 4 4 4		CSIS 110 CSIS 110 or CSIS 115 CSIS 112 CSIS 113 CSIS 212
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar CSIS 111 CSIS 112 CSIS 113 CSIS 212 CSIS 213 CSIS 216	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II LAN Switching and Wireless CCNA Exploration III Accessing the WAN CCNA Exploration IV Implementing Cisco IP Routing CCNP I	3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		CSIS 110 CSIS 110 or CSIS 115 CSIS 112 CSIS 113 CSIS 212 CSIS 213
Specific Prog BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis Ar CSIS 111 CSIS 112 CSIS 113 CSIS 212 CSIS 213 CSIS 216 CSIS 217	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications Tea Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II LAN Switching and Wireless CCNA Exploration III Accessing the WAN CCNA Exploration IV Implementing Cisco IP Routing CCNP I Implementing IP Switching CCNP II	3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		CSIS 110 CSIS 110 or CSIS 115 CSIS 112 CSIS 113 CSIS 212 CSIS 213 CSIS 213

A.A.S. Computer Science and Information Systems- Cisco

	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition & Reading I	3		ENGL 30 or appropriate placement score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra or	3		MATH 40/40L or appropriate placement score
higher Mather				With the 402 of appropriate placement score
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement score
SPDR 102	Fundamentals of Human Communications	J		ENGE 30 of appropriate placement score
	umbered 100 or above from the following disciplines:			
ART, ANTH, F	ECON, ENGL, Foreign Language, GEOG (except 104 & 110	3-6		
	ses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	0 0		
SOSC, SOCI,				
	ımbered 100 or above from the following disciplines:	3-6		
	GEOG (104 & 110), GEOL, MATH 120 or above, PHYS			
Total Gener	al Education Requirements	18		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 120	Organizational Behavior	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement score
CSIS 110	Technology & Information Management	3		
0010 445	Introduction to Microcomputer Applications			
CSIS 115	introduction to wicrocomputer Applications	3		
Emphasis A		3		
	ea	3		CSIS 110
Emphasis Aı	rea Microcomputer Hardware Concepts			
Emphasis Ai	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I	3 4		CSIS 110 CSIS 110 or CSIS 115 CSIS 112
Emphasis Ai CSIS 111 CSIS 112	rea Microcomputer Hardware Concepts	3		CSIS 110 or CSIS 115
Emphasis Ai CSIS 111 CSIS 112 CSIS 113	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II Introduction to E-Commerce	3 4 4		CSIS 110 or CSIS 115 CSIS 112
Emphasis Ai CSIS 111 CSIS 112 CSIS 113 CSIS 129	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II Introduction to E-Commerce Linux Operating System	3 4 4 3		CSIS 110 or CSIS 115 CSIS 112 CSIS 110 CSIS 110
Emphasis Ai CSIS 111 CSIS 112 CSIS 113 CSIS 129 CSIS 152 CSIS 170	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II Introduction to E-Commerce Linux Operating System Principles of Information Assurance	3 4 4 3 3 3		CSIS 110 or CSIS 115 CSIS 112 CSIS 110 CSIS 110 CSIS 110
Emphasis Ai CSIS 111 CSIS 112 CSIS 113 CSIS 129 CSIS 152 CSIS 170 CSIS 172	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II Introduction to E-Commerce Linux Operating System Principles of Information Assurance LAN Windows Server	3 4 4 3 3 3 3		CSIS 110 or CSIS 115 CSIS 112 CSIS 110 CSIS 110 CSIS 110 CSIS 110
Emphasis Ai CSIS 111 CSIS 112 CSIS 113 CSIS 129 CSIS 152 CSIS 170 CSIS 172 CSIS 212	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II Introduction to E-Commerce Linux Operating System Principles of Information Assurance LAN Windows Server LAN Switching and Wireless CCNA Exploration III	3 4 4 3 3 3 3 4		CSIS 110 or CSIS 115 CSIS 112 CSIS 110 CSIS 110 CSIS 110 CSIS 110 CSIS 1110 CSIS 1110
Emphasis Ai CSIS 111 CSIS 112 CSIS 113 CSIS 129 CSIS 152 CSIS 170 CSIS 172	Microcomputer Hardware Concepts Network Fundamentals CCNA Exploration I Routing Protocols and Concepts CCNA Exploration II Introduction to E-Commerce Linux Operating System Principles of Information Assurance LAN Windows Server	3 4 4 3 3 3 3		CSIS 110 or CSIS 115 CSIS 112 CSIS 110 CSIS 110 CSIS 110 CSIS 110

A.A.S. Computer Science and Information Systems: Security

COLL 100 First Year Seminar	1		
General Education Requirements	Credits	Semester Taken	Prerequisites
ENGL 101 Composition & Reading I	3		ENGL 30 or appropriate placement score
HIST 120 United States History to 1865 or			
HIST 121 United States History Since 1865			
POLS 135 Introduction to Political Science or	3		
POLS 136 Introduction to American National Politics <i>or</i>			
POLS 137 Introduction to State and Local Politics			
MATH 110 Intermediate Algebra <i>or</i> higher Mathematics course	3		MATH 40/40L or appropriate placement score
SPDR 100 Fundamentals of Speech or	3		ENGL 30 or appropriate placement score
SPDR 102 Fundamentals of Human Communications	3		LIVOL 30 of appropriate placement score
Any course numbered 100 or above from the following disciplines:			
ART, ANTH, ECON, ENGL, Foreign Language, GEOG (except 104 & 110	3-6		
and GIS courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	3-0		
SOSC, SOCI, SPDR			
Any course numbered 100 or above from the following disciplines:	3-6		
BIOL, CHEM, GEOG (104 & 110), GEOL, MATH 120 or above, PHYS			
Total General Education Requirements	18		
Specific Program Requirements	Credits	Semester Taken	Prerequisites
BSAD 120 Organizational Behavior	3		
BSAD 221 Business Communications	3		ENGL 30 or appropriate placement score
CSIS 110 Technology & Information Management	3		
CSIS 115 Introduction to Microcomputer Applications	3		
Emphasis Area			
CSIS 112 Network Fundamentals CCNA Exploration I	4		CSIS 110 or CSIS 115
CSIS 113 Routing Protocols and Concepts CCNA Exploration II	4		CSIS 112
CSIS 129 Introduction to E-commerce	3		CSIS 110
CSIS 152 Linux Operating System	3		CSIS 110
CSIS 170 Principles of Information Assurance	3		CSIS 110
CSIS 212 LAN Switching and Wireless CCNA Exploration III	4		CSIS 113
CSIS 213 Accessing the WAN CCNA Exploration IV	4		CSIS 212
	4		CSIS 113
CSIS 272 Network Security	. 4		
CSIS 272 Network Security CSIS 290 Field Competencies and Employment Strategies	3		Instructor approval

A.A.S. Computer Science and Information Systems: Software Development

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition & Reading I	3		ENGL 30 or appropriate placement score
HIST 120 HIST 121	United States History to 1865 <i>or</i> United States History Since 1865			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra <i>or</i> higher Mathematics course	3		MATH 40/40L or appropriate placement score
SPDR 100 SPDR 102	Fundamentals of Speech or Fundamentals of Human Communications	3		ENGL 30 or appropriate placement score
ART, ANTH, E and GIS cours SOSC, SOCI,		3-6		
BIÓL, CHEM,	umbered 100 or above from the following disciplines: GEOG (104 & 110), GEOL, MATH 120 or above, PHYS	3-6		
Total Gener	al Education Requirements	18		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 120	Organizational Behavior	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement score
CSIS 110	Technology & Information Management	3		
CSIS 115	Introduction to Microcomputer Applications	3		
Emphasis A	rea			
CSIS 123	Programming Fundamentals	3		MATH 40/40L or appropriate placement score (CSIS 123)
CSIS 223	Object-Oriented Programming	3		CSIS 123 and MATH 110
CSIS 128	Web Development	3		CSIS 110 or 115
CSIS 228	Advanced Web Development	3		CSIS 128
CSIS 141 MATH 141	Discrete Structures Comp. Science I or Discrete Structures Comp. Science I	3		MATH 120 or 150
CSIS 143	Database Design and Management	3		CSIS 110 or 115
	Linux Operating System	3		CSIS 110
CSIS 152		2		CSIS 110
CSIS 152 CSIS 161	Networking Fundamentals	3		
		3		CSIS 110
CSIS 161	Networking Fundamentals Principles of Information Assurance Web Database Programming			
CSIS 161 CSIS 170	Principles of Information Assurance	3		CSIS 110

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A.A.S. Computer Science and Information Systems: Systems Administration & Engineering

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition & Reading I	3		ENGL 30 or appropriate placement score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra or higher Mathematics course	3		MATH 40/40L or appropriate placement score
SPDR 100 SPDR 102	Fundamentals of Speech or Fundamentals of Human Communications	3		ENGL 30 or appropriate placement score
ART, ANTH, and GIS cour SOSC, SOCI		3-6		
	umbered 100 or above from the following disciplines: GEOG (104 & 110), GEOL, MATH 120 or above, PHYS	3-6		
	ral Education Requirements	18		
Total Gener	ai Luucation Nequirements	10		
			Compoter	
•	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 120	Organizational Behavior	3		·
BSAD 120 BSAD 221	Organizational Behavior Business Communications	3		Prerequisites ENGL 30 or appropriate placement test score
BSAD 120 BSAD 221 CSIS 110	Organizational Behavior Business Communications Technology & Information Management	3 3 3		·
BSAD 120 BSAD 221 CSIS 110 CSIS 115	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications	3		·
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications	3 3 3		ENGL 30 or appropriate placement test score
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications	3 3 3		ENGL 30 or appropriate placement test score CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea	3 3 3 3		ENGL 30 or appropriate placement test score
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts	3 3 3 3 3		ENGL 30 or appropriate placement test score CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management	3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts	3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 110 CSIS 110 CSIS 110 CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161 CSIS 170	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System	3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System Networking Fundamentals Principles of Information Assurance LAN Windows Server	3 3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 110 CSIS 110 CSIS 110 CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161 CSIS 170	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System Networking Fundamentals Principles of Information Assurance	3 3 3 3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 110 CSIS 110 CSIS 110 CSIS 110 CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161 CSIS 170 CSIS 172	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System Networking Fundamentals Principles of Information Assurance LAN Windows Server Technologies Used on Local Area Networks Service and Support of Local Area Networks	3 3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161 CSIS 170 CSIS 172	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System Networking Fundamentals Principles of Information Assurance LAN Windows Server Technologies Used on Local Area Networks	3 3 3 3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 112 or 161 and CSIS 151 CSIS 172
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161 CSIS 170 CSIS 172 CSIS 174 CSIS 175	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System Networking Fundamentals Principles of Information Assurance LAN Windows Server Technologies Used on Local Area Networks Service and Support of Local Area Networks	3 3 3 3 3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 112 or 161 and CSIS 151 CSIS 172 CSIS 172
BSAD 120 BSAD 221 CSIS 110 CSIS 115 Emphasis A CSIS 111 CSIS 143 CSIS 151 CSIS 152 CSIS 161 CSIS 170 CSIS 172 CSIS 174 CSIS 175 CSIS 178 CSIS 290	Organizational Behavior Business Communications Technology & Information Management Introduction to Microcomputer Applications rea Microcomputer Hardware Concepts Database Design and Management Microcomputer Operating Systems Concepts Linux Operating System Networking Fundamentals Principles of Information Assurance LAN Windows Server Technologies Used on Local Area Networks Service and Support of Local Area Networks Internetworking with TCP/IP	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		CSIS 110 CSIS 110 or CSIS 115 CSIS 110 CSIS 112 or 161 and CSIS 151 CSIS 172 CSIS 172 CSIS 172

A.A.S. Computer Science and Information Systems: Web Technologies

	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition & Reading I	3		ENGL 30 or appropriate placement score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra or higher Mathematics course	3		MATH 40/40L or appropriate placement score
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement score
SPDR 102	Fundamentals of Human Communications	3		ENGE 30 of appropriate placement 3core
	umbered 100 or above from the following disciplines:			
	ECON, ENGL, Foreign Language, GEOG (except 104 & 110	3-6		
	ses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,			
SOSC, SOCI,				
	imbered 100 or above from the following disciplines:	3-6		
	GEOG (104 & 110), GEOL, MATH 120 or above, PHYS			
Total Gener	al Education Requirements	18		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 120	Organizational Behavior	3		
BSAD 221	Business Communications	3		ENGL 30 or appopriate placement score
CSIS 110	Technology & Information Management	3		
CSIS 115	Introduction to Microcomputer Applications	_		
		3		
	ea	3		
Emphasis Ar GDES 110		3		
Emphasis Ar	Computers in Design I	-		MATH 40/40L or appropriate placement score
Emphasis Ar GDES 110		3		MATH 40/40L or appropriate placement score CSIS 123
Emphasis Ar GDES 110 CSIS 123	Computers in Design I Programming Fundamentals Object-Oriented Programming	3 3		
Emphasis Ar GDES 110 CSIS 123 CSIS 223	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development	3 3 3 3		CSIS 123
Emphasis Ar GDES 110 CSIS 123 CSIS 223 CSIS 128	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development Advanced Web Development	3 3 3		CSIS 123 CSIS 110 or 115
Emphasis Ar GDES 110 CSIS 123 CSIS 223 CSIS 128 CSIS 228	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development	3 3 3 3 3		CSIS 123 CSIS 110 or 115 CSIS 128
Emphasis Ar GDES 110 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 143 CSIS 161	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development Advanced Web Development Database Design and Management	3 3 3 3 3 3		CSIS 123 CSIS 110 or 115 CSIS 128 CSIS 110 or 115 CSIS 110
Emphasis Ar GDES 110 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 143	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development Advanced Web Development Database Design and Management Networking Fundamentals	3 3 3 3 3 3 3		CSIS 123 CSIS 110 or 115 CSIS 128 CSIS 110 or 115
Emphasis Ar GDES 110 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 143 CSIS 161 CSIS 162 CSIS 262	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development Advanced Web Development Database Design and Management Networking Fundamentals Introduction to Digital Media Advanced Digital Media and Development	3 3 3 3 3 3 3 3 3		CSIS 123 CSIS 110 or 115 CSIS 128 CSIS 110 or 115 CSIS 110 or 115 CSIS 110
Emphasis Ar GDES 110 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 143 CSIS 161 CSIS 162	Computers in Design I Programming Fundamentals Object-Oriented Programming Web Development Advanced Web Development Database Design and Management Networking Fundamentals Introduction to Digital Media	3 3 3 3 3 3 3 3		CSIS 123 CSIS 110 or 115 CSIS 128 CSIS 110 or 115 CSIS 110 or 115 CSIS 110 or 115 CSIS 110 or 115

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CSIS CCNA and CCNP Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CSIS 112	Network Fundamentals CCNA Exploration I	4		CSIS 110 or CSIS 115
CSIS 113	Routing Protocols and Concepts CCNA Exploration II	4		CSIS 112
CSIS 212	LAN Switching and Wireless CCNA Exploration III	4		CSIS 113
CSIS 213	Accessing the WAN CCNA Exploration IV	4		CSIS 212
CSIS 216	Implementing Cisco IP Routing: CCNP I	4		CSIS 213
CSIS 217	Implementing IP Switching CCNP II	4		CSIS 213
CSIS 218	Maintaining and Troubleshooting IP Networks CCNP III	4		CSIS 216 and 217
Total Credit	Hours Required	29		

CSIS CCNA and Security Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CSIS 112	Network Fundamentals CCNA Exploration I	4		CSIS 110 or CSIS 115
CSIS 113	Routing Protocols and Concepts CCNA Exploration II	4		CSIS 112
CSIS 170	Principles of Information Assurance	3		CSIS 110
CSIS 212	LAN Switching and Wireless CCNA Exploration III	4		CSIS 113
CSIS 213	Accessing the WAN CCNA Exploration IV	4		CSIS 212
CSIS 272	Network Security	4		CSIS 113
Total Credi	t Hours Required	24		

CSIS CCNA and Technology Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 120	Organizational Behavior <i>or</i>	3		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement score
CSIS 110	Technology and Information Management or	3		
CSIS 115	Intro to Microcomputer Applications	3		
CSIS 111	Microcomputer Hardware Concepts	3		CSIS 110
CSIS 112	Network Fundamentals CCNA Exploration I	4		CSIS 110 or CSIS 115
CSIS 113	Routing Protocols and Concepts CCNA Exploration II	4		CSIS 112
CSIS 152	Linux Operating System	3		CSIS 110
CSIS 170	Principles of Information Assurance	3		CSIS 110
CSIS 212	LAN Switching and Wireless CCNA Exploration III	4		CSIS 113
CSIS 213	Accessing the WAN CCNA Exploration IV	4		CSIS 212
Total Credit	Hours Required	32		

CSIS Cisco Academy Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CSIS 112	Network Fundamentals CCNA Exploration I	4		CSIS 110 or CSIS 115
CSIS 113	Routing Protocols and Concepts CCNA Exploration II	4		CSIS 112
CSIS 212	LAN Switching and Wireless CCNA Exploration III	4		CSIS 113
CSIS 213	Accessing the WAN CCNA Exploration IV	4		CSIS 212
Total Credit Hours Required		17		

CSIS Software Development Certificate

COLL 100	First Year Seminar	1		
Specific Program Requirements		Credits	Semester Taken	Prerequisites
CSIS 110	Technology and Information Management	3		
CSIS 123	Programming Fundamentals	3		MATH 40/40L or appropriate placement score
CSIS 223	Object-Oriented Programming	3		MATH 110 and CSIS 123
CSIS 128	Web Development	3		CSIS 110 or CSIS 115
CSIS 228	Advanced Web Development	3		CSIS 128
CSIS 141 MATH 141	Discrete Structures Comp Science I or Discrete Structures Comp Science I	3		MATH 120 or MATH 150
CSIS 143	Database Design and Management	3		CSIS 110 or CSIS 115
CSIS 152	Linux Operating System	3		CSIS 110
CSIS 161	Networking Fundamentals	3		CSIS 110
CSIS 170	Principles of Information Assurance	3		CSIS 110
CSIS 279	Web Database Programming	3		CSIS 123, 128, and 143
CSIS 290	Field Competencies and Employment Strategies	3		Instructor approval
Total Credit Hours Required		37		

CSIS Systems Administration & Engineering Certificate

COLL 100	First Year Seminar	1		
Specific Program Requirements		Credits	Semester Taken	Prerequisites
CSIS 110	Technology and Information Management	3		
CSIS 111	Microcomputer Hardware Concepts	3		CSIS 110
CSIS 143	Database Design and Management	3		CSIS 110 or CSIS 115
CSIS 151	Micocomputer Operating Systems Concepts	3		CSIS 110
CSIS 152	Linux Operating System	3		CSIS 110
CSIS 161	Networking Fundamentals	3		CSIS 110
CSIS 170	Principles of Information Assurance	3		CSIS 110
CSIS 172	LAN Windows Server	3		CSIS 110
CSIS 174	Technologies Used on Local Area Networks	3		CSIS 172
CSIS 175	Service and Support of Local Area Networks	3		CSIS 172
CSIS 178	Internetworking with TCP/IP	3		CSIS 172
CSIS 290	Field Competencies and Employment Strategies	3		Instructor approval
Total Credit Hours Required				

CSIS Web Technologies Certificate

COLL 100	First Year Seminar	1		
Specific Program Requirements		Credits	Semester Taken	Prerequisites
GDES 110	Computers in Design I	3		
CSIS 110	Technology and Information Management	3		
CSIS 123	Programming Fundamentals	3		MATH 40/40L or appropriate placement score
CSIS 128	Web Development	3		CSIS 110 or CSIS 115
CSIS 143	Database Design and Management	3		CSIS 110 or CSIS 115
CSIS 161	Networking Fundamentals	3		CSIS 110
CSIS 162	Introduction to Digital Media	3		CSIS 110 or CSIS 115
CSIS 223	Object-Oriented Programming	3		MATH 110 and CSIS 123
CSIS 228	Advanced Web Development	3		CSIS 128
CSIS 262	Advanced Digital Media Design and Development	3		CSIS 162
CSIS 279	Web Database Programming	3		CSIS 123, 128, and 143
CSIS 290	Field Competencies and Employment Strategies	3		Instructor approval
Total Credit Hours Required		37		

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Construction Management

Offered at MCC-Business & Technology

This Associate in Applied Science degree is intended to qualify individuals for entry-level careers in the residential or commercial construction industry, in management or support roles. Construction specialty (CSMG) classes are held in the evening at the Builders' Association Education and Training Center, 105 W. 12th Avenue. North Kansas City, Missouri.

A.A.S. Indus. Tech. Construction Management

COLL 100	First Year Seminar	1		
General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
				MATH 20/20L or appropriate placement test score
MATH 100	Mathematics for Business <i>or</i>	3		(MATH 100)
MATH 110	Intermediate Algebra			MATH 40/40L or appropriate placement test score
				(MATH 110)
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	ation Electives:	•		
ART 108, 150	151, PHIL 100, PSYC 140, SOCI 160, HIST 120, 121, POLS	6		
135, ENGL 21				
BSAD 100	gram Requirements			
BSAD 100 BSAD 101	Introduction to Accounting <i>or</i> Accounting Principles I	3		
BSAD 101	Principles of Supervision or			
BSAD 109	Organizational Behavior	3		
BSAD 127	Management Internship I and			
BSAD 127	Management Internship II			
DOAD 120	or			
Select three o	f the following four CSMG courses:			
CSMG 150	Construction Management Leadership	6		
CSMG 160	Construction Project Management			
CSMG 100	Communications for the Construction Trades			
CSMG 170	General and Specialty Contractor Dynamics			
BSAD 219	Entrepreneurship or			
BSAD 204	Business Management	3		
BSAD 153	Accounting Information Systems or			
CSIS 115	Intro to Microcomputer Applications <i>or</i>	3		BSAD 101 (BSAD 153)
CSIS	Any Programming Language Course			101 (BOND 100)
BSAD 205	Marketing	3		
BSAD 221	Business Communications	3		
BSAD 254	Business Law I or	- 5		
BSAD 255	Business Law II or	3		
BSAD 270	Legal Environment of Business			
CSMG 110	Problem Solving/Decision Making	1		
CSMG 120	OSHA and Site Security	1		
CSMG 130	Cost Awareness/Production Control	1		
CSMG 140	Beginning Print Reading	2		
CSMG 205	Intermediate Print Reading	2		CSMG 140
CSMG 210	Accident Prevention and Loss Control	1		3
CSMG 220	Construction Planning and Scheduling	2		
CSMG 230	Productivity Improvement	2		
CSMG 250	Construction Estimating	2		
CSMG 260	Contract Documents	2		
CSMG 270	Advanced Print Reading	2		CSMG 205
	Hours Required	64		333 233
Total Orealt	Hours Required	VT		

Industrial & Engineering Technolgy

Construction Trades Apprenticeship Program Offered at MCC-Business & Technology

These degree completion programs grant college credit by certification for certain federally approved apprenticeship programs. An eligible apprenticeship must contain a minimum 450 clock hours of classroom instruction and a program-specific number of clock hours of on-thejob training. Thirty to forty-two hours of MCC credit leading toward an AAS in Industrial Technology will be awarded upon completion of 15 hours of MCC coursework and receipt of a certificate and/or journeyman card for the appropriate craft.

A.A.S. Industrial Technologies		Floor Layer	64-66 Credits
Bricklayer	64-66 Credits	Glaziers	64-66 Credits
Construction Carpentry	64-66 Credits	Inside Wiring	
Construction Cement Masons	64-66 Credits	3 -Year program	64-66 Credits
Construction Driver & Logistics	63-67 Credits	5 -Year program	67-68 Credits
Construction Ironwork	64-66 Credits	Painter	64-66 Credits
Construction Laborer	64-66 Credits	Plumbing	64-66 Credits

Bricklayer Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 130 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total Genera	Education Requirements	18		
Specific Pro	gram Requirements			
Bricklayer				
BSAD 109	Principles of Supervision	3		
CSOF 100 CSIS 115	Introduction to Personal Computing or Introduction to Microcomputer Applications or higher	1-3		
EHSS 112	Introduction to Health & Safety for Construction	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3		
General Elect		6		
	prenticeship (Credit by Certification*)	29		
Total Credit I	iours	64-66		

^{*} Federally approved bricklaying apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

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Construction Carpentry Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103 MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON GIS Courses) SOSC, SOCI,		3-5		
Total Credit F	lours	18		

Specific Pro	gram Requirements		
BSAD 109	Principles of Supervision	3	
CSOF 100	Introduction to Personal Computing or	1-3	
CSIS 115	Introduction to Microcomputer Applications or higher	1-3	
EHSS 112	Introduction to Health and Safety for Construction	1	
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3	
Carpentry App	prenticeship (Credit by Certification*)	29	
General Elect	ives	6	
Total Credit I	Hours	64-66	

^{*}Federally approved carpentry apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Construction Cement Masons Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120R MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, I, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total Genera	I Education Requirements	18		

Specific Pro	Specific Program Requirements			
BSAD 109	Principles of Supervision	3		
CSOF 100	Introduction to Personal Computing or	1-3		
CSIS 115	Introduction to Microcomputer Applications or higher	1-5		
EHSS 112	Introduction to Health and Safety for Construction	1		
INTE 124	Employment Strategies for Technical Careers	2		
Cement Mas	ons Apprenticeship (Credit by Certification*)	29		
General Elec	tives	9	CSOF 100 or CSIS 115 or higher	
Total Credit	Total Credit Hours 64-66			

^{*} Federally approved cement masons apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

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A.A.S. Indus. Construction Driver & Logistics

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Precalculus or higher	5-8		MATH 20/20L or appropriate score on placement test (MATH 103R) MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score on the math placement test (MATH 150)
SPAN 100 SPAN 101	Beginning Occupational Spanish <i>or</i> Elementary Spanish I	3-5		
Total Genera	Education Requirements	18		
	gram Requirements			
EHSS 111	Introduction to Health and Safety for General Industry	1		
EHSS 112	Introduction to Health and Safety for Construction	3		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115
CSIS 110	Technology and Information Management	3		
CSIS 115	Introduction to Microcomputer Applications	3		
INTE 151	Industrial Rigging	3		
BSAD 109	Principles of Supervision	3		
BSAD 210	Logistics Management	3		
BSAD 211	Operations Management	3		
BSAD 212	Transportation and Operations and Management	3		
BSAD 213	Warehouse and Distribution Centers	3		
BSAD 219	Entrepreneurship	8		
	orker Apprenticeship*	8		
Electives				
	to meet the minimum credit hours to complete the degree.			
Total Credit	Hours Required	63-67		k hours of classroom and instruction and 2000 clock

^{*}Federally approved Warehouse Worker apprenticeship program that contains a minimum of 144 clock hours of classroom and instruction and 2000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate.

Construction Ironworker Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120R MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, I, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total Genera	I Education Requirements	18		

Specific Pro	ogram Requirements		
BSAD 109	Principles of Supervision	3	
CSOF 100	Introduction to Personal Computing or	1-3	
CSIS 115	Introduction to Microcomputer Applications or higher	1-3	
EHSS 112	Introduction to Health and Safety for Construction	1	
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3	
General Elect	tives	6	
Ironworking A	pprenticeship (Credit by Certification*)	29	
Total Credit I	Hours	64-66	

^{*} Federally approved ironworking apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

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Construction Laborer Apprenticeship Degree Completion Program

Credits Semester Taken Prerequisites	COLL 100	First Year Seminar	1	
HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or United States History Since 1865 or HIST 121 United States History Since 1865 or Introduction to Political Science or 3 Introduction to Political Science or 3 Introduction to American National Politics or Introduction to State and Local Politics or Introduction to College Algebra or Warth 103 Technical Mathematics I w/ review or College Algebra or View and Technical Mathematics I w/ review and Technical Mathematics II or Technical Mathematics II o	General Edu	cation Requirements	Credits	 Prerequisites
HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 135 Introduction to Mareican National Politics or Introduction to State and Local Politics SPDR 10 Introduction to State and Local Politics SPDR 10 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Option 1: MATH 103 Technical Mathematics I or Technical Mathematics I will review or College Algebra or College Algebra or College Algebra will review and Technical Mathematics II or Trigonometry Option 2: MATH 104 Technical Mathematics II or Trigonometry Option 2: MATH 150 Calculus or higher Any course numbered 100 or higher from the following disciplines: ART, ANTH, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR Total General Education Requirement 18 Specific Program Requirements BSAD 109 Principles of Supervision 3 CSOF 100 Introduction to Personal Computing or CISIS 115 Introduction to Personal Careers 2 CSOF 100 or CSIS 115 or higher Interest Introduction to Microcomputer Applications or higher Interest Introduction to Microcomputer Applications or higher Introduction to Microcomputer Applications or higher Introduction to Health and Safety for Construction 1 INTE 124 Employment Strategies for Technical Careers 2 CSOF 100 or CSIS 115 or higher Introduction Laborer Apprenticeship (Credit by Certification*) 29	ENGL 101	Composition and Reading I	3	
Option 1: MATH 103 MATH 103 Technical Mathematics I or MATH 103 MATH 103 Technical Mathematics I w/ review or College Algebra or MATH 120 MATH 120 College Algebra w/ review and MATH 120 Trigonometry Option 2: MATH 150 Calculus or higher Any course numbered 100 or higher from the following disciplines: ART, ANTH, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR Total General Education Requirement BSAD 109 Principles of Supervision CSIS 115 Introduction to Dersonal Computer Applications or higher EHSS 112 Introduction to Health and Safety for Construction INTE 124 Employment Strategies for Technical Careers Construction Laborer Apprenticeship (Credit by Certification*) MATH 40/40L or appropriate placement test score (MATH 103), MATH 110 or appropriate placement test score (MATH 120), MATH 110 or appropriate placement test score (MATH 120) or appropriate placement test score (MATH 120 or appropriate placement tes	HIST 121 POLS 135 POLS 136	United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or	3	
MÄTH 103 Technical Mathematics I or MATH 103 Technical Mathematics I w/ review or MATH 120 College Algebra or MATH 120 College Algebra w/ review and MATH 120 Technical Mathematics II or MATH 120 Trigonometry Option 2: MATH 130 Trigonometry Option 2: MATH 150 Calculus or higher Any course numbered 100 or higher from the following disciplines: ART, ANTH, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR Total General Education Requirement Specific Program Requirements Specific Program Requirements SSAD 109 Principles of Supervision CSOF 100 Introduction to Personal Computing or CSIS 115 Introduction to Microcomputer Applications or higher EHSS 112 Introduction to Health and Safety for Construction INTE 124 Employment Strategies for Technical Careers Construction Laborer Apprenticeship (Credit by Certification*) Specific Crostruction Laborer Apprenticeship (Credit by Certification*)	SPDR 100	Fundamentals of Speech	3	ENGL 30 or appropriate placement test score
ANTH, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR Total General Education Requirememt 18 Specific Program Requirements BSAD 109 Principles of Supervision CSOF 100 Introduction to Personal Computing or CSIS 115 Introduction to Microcomputer Applications or higher EHSS 112 Introduction to Health and Safety for Construction INTE 124 Employment Strategies for Technical Careers INTE 151 Industrial Rigging General Electives Construction Laborer Apprenticeship (Credit by Certification*) 3-5 3-5 3-5 3-6 3-7 3-7 3-7 3-7 3-7 3-7 3-7	MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8	or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math
Specific Program Requirements BSAD 109 Principles of Supervision CSOF 100 Introduction to Personal Computing or CSIS 115 Introduction to Microcomputer Applications or higher EHSS 112 Introduction to Health and Safety for Construction INTE 124 Employment Strategies for Technical Careers INTE 151 Industrial Rigging General Electives 6 Construction Laborer Apprenticeship (Credit by Certification*) 2 CSOF 100 or CSIS 115 or higher CSOF 100 or CSIS 115 or higher 2 CSOF 100 or CSIS 115 or higher 2 CSOF 100 or CSIS 115 or higher	ANTH, ECON GIS Courses) SOSC, SOCI,	, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR		
BSAD 109 Principles of Supervision 3 SID SUPERVISION S	Total Genera	Education Requirememt	18	
CSOF 100 Introduction to Personal Computing or CSIS 115 Introduction to Microcomputer Applications or higher EHSS 112 Introduction to Health and Safety for Construction INTE 124 Employment Strategies for Technical Careers INTE 151 Industrial Rigging General Electives 6 Construction Laborer Apprenticeship (Credit by Certification*) 1-3 CSOF 100 or CSIS 115 or higher CSOF 100 or CSIS 115 or higher 2 CSOF 100 or CSIS 115 or higher 3 CSOF 100 or CSIS 115 or higher 2 CSOF 100 or CSIS 115 or higher 2 CSOF 100 or CSIS 115 or higher 3 CSOF 100 or CSIS 115 or higher				
EHSS 112 Introduction to Health and Safety for Construction 1 INTE 124 Employment Strategies for Technical Careers 2 CSOF 100 or CSIS 115 or higher INTE 151 Industrial Rigging 3 General Electives 6 Construction Laborer Apprenticeship (Credit by Certification*) 29	CSOF 100	Introduction to Personal Computing or		
INTE 124 Employment Strategies for Technical Careers 2 CSOF 100 or CSIS 115 or higher INTE 151 Industrial Rigging 3 Seneral Electives General Electives 6 Construction Laborer Apprenticeship (Credit by Certification*) 29			1	
General Electives 6 Construction Laborer Apprenticeship (Credit by Certification*) 29	INTE 124		2	CSOF 100 or CSIS 115 or higher
General Electives 6 Construction Laborer Apprenticeship (Credit by Certification*) 29	INTE 151	Industrial Rigging	3	
Total Credit Hours 64-66	Construction I	ves aborer Apprenticeship (Credit by Certification*)	29	
	Total Credit F	lours	64-66	

^{*} Federally approved construction laborer apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Floor Layer Apprenticeship

COLL 100	First Year Seminar	1		
General Edu	ncation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON GIS Courses) SOSC, SOCI,	umbered 100 or higher from the following disciplines: ART, RNGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5 18		
Total Gellera	Luucation Requirements	10		

Specific Pro	ogram Requirements		
BSAD 109	Principles of Supervision	3	
CSOF 100	Introduction to Personal Computing or	1-3	
CSIS 115	Introduction to Microcomputer Applications or higher	1-3	
EHSS 111	Introduction to Health and Safety for General Industry	1	
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3	
Floor Layer A	pprenticeship (Credit by Certification*)	29	
General Elec	tives	6	
Total Credit	Hours	64-66	

^{*} Federally approved glazier apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Glaziers Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120R MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, , ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total Genera	Education Requirements	18		

Specific Pro	Specific Program Requirements				
BSAD 109	Principles of Supervision	3			
CSOF 100	Introduction to Personal Computing or	1-3			
CSIS 115	Introduction to Microcomputer Applications or higher	1-3			
EHSS 112	Introduction to Health and Safety for Construction	1			
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher		
INTE 151	Industrial Rigging	3			
General Elect	ives	6			
Glazier Appre	nticeship (Credit by Certification*)	29			
Total Credit I	Hours	64-66			

^{*} Federally approved glazier apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Inside Wiring- 3 Year Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 orappropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103 MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, , ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total General	Education Requirements	18		

Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 109	Principles of Supervision	3		
CSOF 100	Introduction to Personal Computing or	1-3		
CSIS 115	Introduction to Microcomputer Applications or higher	1-5		
INTE 107	Industrial Electrical Safety	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3		
General Elect	ives	6		
Electrical App	renticeship	29		
Total Credit	Hours	64-66		

^{*} Federally approved inside wiring apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

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Inside Wiring- 5 Year Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher Imbered 100 or higher from the following disciplines: ART,	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
	, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total General	Education Requirements	18		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
CSOF 100 CSOS 115	Introduction to Personal Computing or Introduction to Microcomputer Applications or higher	1-3		
INTE 107	Industrial Electircal Safety	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
Electrical Appr		42		
Total Credit H	ours	67-68		

^{*} Federally approved inside wiring apprenticeship program that contains a minimum 750 clock hours of classroom instruction and 10,000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Painter Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR			
Total General	Education Requirements	18		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 109	Principles of Supervision	3		
CSOF 100 CSIS 115	Introduction to Personal Computing <i>or</i> Introduction to Microcomputer Applications or higher	1-3		
EHSS 112	Introduction to Health and Safety for Construction	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3		
General Elect	ves	6		
	nticeship (Credit by Certification*)	29		
Total Credit H	lours	64-66		
* Fodorolly or	annoyed pointer appropriacehin program that contains a minim	4E0 ala	and hours of als	paragraphic instruction and 6000 alask bours of an the

^{*} Federally approved painter apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-thejob training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Plumbing Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120R MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, , ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total General	Education Requirements	18		

Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 109	Principles of Supervision	3		
CSOF 100 CSIS 115	Introduction to Personal Computing or Introduction to Microcomputer Applications or higher	1-3		
EHSS 112	Introduction to Health & Safety for Construction	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3		
General Elect	ives	6		
Plumber Appr	enticeship (Credit by Certification*)	29		
Total Credit H	lours	64-66		

^{*} Federally approved plumber apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-thejob training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Criminal Justice

Offered at MCC-Blue River and MCC-Penn Valley

A.A.S. Criminal Justice Adult		
Corrections Emphasis	. 67-69	Credits
A.A.S. Criminal Justice Juvenile		
Services Emphasis	. 67-69	Credits
A.A.S. Criminal Justice Police		
Science	. 64-68	Credits
Police Science Certificate-600 Program	37	Credits

This program leads to the Associate in Applied Science degree with three emphasis areas: Adult Corrections, Juvenile Services and Police Science. The program prepares students for jobs in law enforcement and corrections. The Police Science program is offered at MCC-Blue River. Penn Valley offers the Adult Corrections and Juvenile Services emphasis areas.

A.A.S. Criminal Justice Adult Corrections Emphasis

COLL 100 First Year Seminar	1		
General Education Requirements	Credits	Semester Taken	Prerequisites
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 United States History to 1865 or			
HIST 121 United States History Since 1865 or			
POLS 135 Introduction to Political Science <i>or</i>	3		
POLS 136 Introduction to American National Politics <i>or</i>			
POLS 137 Introduction to State and Local Politics			
MATH 100 Mathematics for Business or higher numbered course	3		MATH 20/20L or appropriate placement test score
PSYC 140 General Psychology	3		
SOCI 160 Sociology	3		
SPDR 100 Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
General Education Electives: Any course(s) numbered 100 or above from the	3-5		
following disciplines: ECON, HIST, Foreign Language	3-3		
Specific Core Requirements			
CRJU 101 Intro to Criminal Justice	3		
CRJU 122 Procedural Law	3		
CRJU 165 Criminology	3		
CRJU 168 Juvenile Delinquency	3		
CRJU 169 Family Violence and Sexual Abuse	3		
CRJU 223 Criminal Law I or	3		
CRJU 230 Missouri Criminal Law	3		
Adult Corrections Emphasis			
CRJU 105 American Corrections	3		CRJU 101
CRJU 126 Corrections in the Community	3		
CRJU 162 Correctional Psychology	3		
CRJU 200 Internship in Criminal Justice	3		15 credit hours of CRJU including CRJU 101
CRJU 228 Fundamentals of Probation and Parole	3		
CRJU 233 Principles of Management in Criminal Justice Systems or	3		
CRJU 236 Correctional Administration			
Electives: Any course(s) numbered 100 or above from the following disciplines	9		
CRJU, Foreign Language, HUMS, PSYC, SOCI	9		
Total Credit Hours Required	67-69		

Criminal Justice

A.A.S. Criminal Justice Juvenile Services Emphasis

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 100	Mathematics for Business or higher numbered course	3		MATH 20/20L or appropriate placement test score
PSYC 140	General Psychology	3		
SOCI 160	Sociology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
General Educa	ation Electives: Any course(s) numbered 100 or above from the	3-5		
	plines: ECON, HIST, Foreign Language	J-5		
	e Requirements			
CRJU 101	Intro to Criminal Justice	3		
CRJU 122	Procedural Law	3		
CRJU 165	Criminology	3		
CRJU 168	Juvenile Delinquency	3		
CRJU 169	Family Violence and Sexual Abuse	3		
CRJU 223	Criminal Law I <i>or</i>	3		
CRJU 230	Missouri Criminal Law	3		
Juvenile Serv	rices Emphasis			
CRJU 200	Internship in Criminal Justice	3		15 credit hours of CRJU including CRJU 101
CRJU 215	Juvenile Law	3		
CRJU 244	Group and Individual Counseling in Corrections	3		CRJU 105
HUMS 160	Principles of Youth Work	3		
HUMS 166	Behavior Management	3		
PSYC 245	Adolescent Psychology	3		PSYC 140
Electives: Any	course(s) numbered 100 or above from the following disciplines:			
	Foreign Language, HUMS, PSYC	9		
Total Credit	Hours Required	67-69		

Human Services

Criminal Justice

This program leads to an Associate in Applied Science Degree. It prepares students for jobs as police officers.

A.A.S. Criminal Justice - Police Science

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 100	Mathematics for Business or higher numbered course	3		MATH 20/20L or appropriate placement test score
PSYC 140	General Psychology or	3		
SOCI 160	Sociology			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
General Educ	ation Electives: Any course(s) numbered 100 or above from the	3-5		
	plines: ECON, HIST, Foreign Language			
	ce Emphasis Requirements			
LWEN 101	Introduction to Law Enforcement	3		LWEN 100
LWEN 111	Law Enforcement Operational Procedures	3		LWEN 101
LWEN 112	Traffic Control and Investigation	3		LWEN 101
LWEN 114	Law Enforcement Report Writing	3		LWEN 100
LWEN 122	Procedural Law for Law Enforcement	3		LWEN 101
LWEN 143	Defensive Tactics for Law Enforcement	4		LWEN 101
LWEN 200	Law Enforcement Skills	5		LWEN 101
LWEN 203	Criminal Investigation I for Law Enforcement	3		LWEN 101
LWEN 204	Criminal Investigation II for Law Enforcement	3		LWEN 101 and 203
LWEN 230	Missouri Statutory Law	3		LWEN 101
EMS 110	First Responder	3		
Electives	•			
Choose three	courses numbered 100 or above from the following			
disciplines:	3	0.44		
	HIST, HUMS, LWEN, POLS, PSYC, SOCI or Foreign	9-11		
Language	, , , , , , , , , , , , , , , , , , ,			
	Hours Required	64-68		
	• • • • • • • • • • • • • • • • • • • •			

Human Services

Criminal Justice

This program provides basic peace officer training. With the completion of the Police Training Academy the candidate will have the required training to apply at any Class A County department. All instructors at the academy are current members of area police departments and possess the Missouri Peace Officer Standards and Training Program, (POST) state instructor certification.

Police Science Certificate - 600 Program

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
LWEN 101	Introduction to Law Enforcement	3		LWEN 100
LWEN 111	Law Enforcement Operational Procedures	3		LWEN 101
LWEN 112	Traffic Control and Investigation	3		LWEN 101
LWEN 114	Law Enforcement Report Writing	3		LWEN 100
LWEN 122	Procedural Law for Law Enforcement	3		LWEN 100
LWEN 143	Defensive Tactics for Law Enforcement	4		LWEN 101
LWEN 200	Law Enforcement Skills	5		LWEN 101
LWEN 203	Criminal Investigations I for Law Enforcement	3		LWEN 101
LWEN 204	Criminal Investigations II for Law Enforcement	3		LWEN 101 and 203
LWEN 230	Missouri Statutory Law	3		LWEN 101
EMS 110	First Responder	3		
Total Credit	Hours Required	37		

Health Services

Dental Assisting

Offered at MCC-Penn Valley

A.A.S. Dental Assisting......72-78 Credits Dental Assisting Certificate52 Credits

This program, which leads to either an Associate in Applied Science degree or a certificate of proficiency, prepares the student to enter the workforce as a trained dental assistant. Graduates of this program are eligible to take the national certifying examination given by the Dental Assisting National Board.

Admission to the Dental Assisting Program
Because enrollment in the program is limited, a student must meet the requirements and apply for admission.
For more information, go to www.mcckc.edu/dentalassisting

A.A.S. Dental Assisting

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
BIOL 109	Human Anatomy and Human Physiology (BIOL 110 and 210 may be substituted)	6-10		BIOL 100 or CHEM 105
BIOL 208	Microbiology	5		BIOL 100 or CHEM 105 or higher, plus one of the following courses: BIOL 100, 104, 106, 108, 109, or 110.
BIOL 100 CHEM 105	Cell Biology or Introductory Chemistry	3-5		
ENGL 101	Composition and Reading I	3		FNCL 20 or appropriate placement test score
HIST 120	United States History to 1865 <i>or</i>	<u>ა</u>		ENGL 30 or appropriate placement test score
HIST 120				
POLS 135	United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i>	3		
POLS 136	Introduction to American National Politics <i>or</i>	J		
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra (or higher)	3		MATH 40 or 40L
PSYC 140	General Psychology	3		INDICTION OF THE
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
SOCI 160	Intro to Sociology	3		Entre de di appropriate placement test coord
	gram Requirements			
DENA 100	Introduction to Dental Assisting	1		
DENA 101	Body Structure and Function	2		Admission to the Dental Assisting program
DENA 102	Head and Neck Anatomy	2		Admission to the Dental Assisting program
DENA 103	Dental Anatomy	2		Admission to the Dental Assisting program
DENA 104	Dental Emergencies and Pharmacology	1		Admission to the Dental Assisting program
DENA 105	Dental Materials I	2		Admission to the Dental Assisting program
DENA 108	Oral Microbiology & Infection Control	2		Admission to the Dental Assisting program
DENA 110	Chairside Assisting I	5		Admission to the Dental Assisting program
DENA 115	Dental Radiology I	4		DENA 102
DENA 125	Clinical Experience I	2		Admission to the Dental Assisting program and completion of CPR for healthcare workers
DENA 205	Dental Materials II	3		DENA 105
DENA 210	Chairside Assisting II	5		DENA 110
DENA 215	Dental Radiology II	2		DENA 115
DENA 225	Dental Office Management	2		Enrollment in the Dental Assisting program
DENA 230	Oral Pathology	1		DENA 108 and 110
DENA 250	Clinical Experience II	4		DENA 125
DENA 260	Dental Assisting Seminar	2		DENA 125
Total Credit	Hours Required	72-78		

Dental Assisting

Dental Assisting Certificate

	Totaling Contained to			
COLL 100	First Year Seminar	1		
General Edu	ication Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Specific Pro	gram Requirements			
DENA 100	Introduction to Dental Assisting	1		
DENA 101	Body Structure and Function	2		Admission to the Dental Assisting program
DENA 102	Head and Neck Anatomy	2		Admission to the Dental Assisting program
DENA 103	Dental Anatomy	2		
DENA 104	Dental Emergencies and Pharmacology	1		
DENA 105	Dental Materials I	2		Admission to the Dental Assisting program
DENA 108	Oral Microbiology and Infection Control	2		
DENA 110	Chairside Assisting I	5		Admission to the Dental Assisting program
DENA 115	Dental Radiology	4		DENA 102
DENA 125	Clinical Experience I	2		Admission to the Dental Assisting program and completion of CPR for healthcare workers
DENA 205	Dental Materials II	3		DENA 105
DENA 210	Chairside Assisting II	5		DENA 110
DENA 215	Dental Radiology II	2		DENA 115
DENA 225	Dental Office Management	2		Enrollment in the Dental Assisting program
DENA 230	Oral Pathology	1		DENA 108 and 110
DENA 250	Clinical Experience II	4		DENA 125
DENA 260	Dental Assisting Seminar	2		DENA 125
Total Credit	Hours Required	52		

Industrial & Engineering Technology

Engineering Technology

Offered MCC-Business & Technology

This program leads to an Associate in Applied Science degree and prepares the student to enter the workforce in the mechanical engineering, civil engineering, architecture, computer and electronics fields and construction management. Graduates will have a strong background in mathematics, design principles, computer aided design and other technologies relating to the engineering fields. Graduates will assist engineering professionals in the design process and be an integral part of the design team. This program transfers to area universities if the student wishes to pursue a four-year degree in engineering technology or related degree.

A.A.S. Engineering Technology: Architecture Emphasis

General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
HIST 120	U.S. History to 1865 or			
HIST 121	U.S. History since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 120	College Algebra and			MATH 110 or satisfactory placement test score
MATH 130	Trigonometry or	5-6		
MATH 150	Pre-Calculus			
MATH 180	Analytic Geometry and Calculus I	5		MATH 130 or 150
Specific Prog	ram Requirements			
EHSS 111	Intro to Health & Safety for General Industry or	1		
EHSS 112	Intro to Health & Safety for Construction	'		
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L or appropriate placement test score
ETEC 153	Descriptive Geometry	4		ETEC 152
ETEC 200	Applied Statics & Mechanics	3		MATH 104 or 130
ETEC 268	Introduction to Structural Steel Design	3		ETEC 152
ETEC 269	CADD II	4		ETEC 152 or 169
ENGR 101	Introduction to the Profession	1		
PHYS 130	General Physics	5		MATH 130 or appropriate placement test score.
ETEC 170	CADD I, Microstation	3		ETEC 152
ETEC 210	Introduction to Commercial Architecture	3		ETEC 152 and 155
ETEC 211	Building Information Modeling, Revit	3		ETEC 220
ETEC 265	Introduction to Civil Design	3		ETEC 152
ETEC 290	Internship in Engineering Technology or	2		
ETEC 295	Capstone Project in Engineering Technology	3		
SRVY 135	Elementary Surveying	3		MATH 130 or 150
Total Credit	Hours Required	65-66		

A.A.S. Engineering Technology: Civil Emphasis

	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
EHSS 111	Introduction to Health & Safety for General Industry	1		
SPAN 100	Beginning Occupational Spanish	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
HIST 120	U.S. History to 1865 or			
HIST 121	U.S. History since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 180	Analytic Geometry and Calculus I	5		MATH 130 or 150
	gram Requirements for:			
Civ	il & Mechanical/Manufacturing g & Architecture			
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L or appropriate placement test score
ETEC 153	Descriptive Geometry	4		ETEC 152
ETEC 200	Structural Design	3		MATH 104 or 130
ETEC 268	Structural Steel Blueprint Reading	3		ETEC 152
ETEC 269	CADD II	4		ETEC 152 or 169
ENGR 101	Introduction to the Profession	1		
PHYS 130	General Physics	5		MATH 130 or appropriate placement test score.
Specific Emp	phasis Requirements Civil			
ETEC 265	Introduction to Civil Drafting	3		ETEC 152
GEOG 120	Introduction to Geographic Information Systems	3		
GEOG 220	GIS Database and Design	3		GEOG 120
GEOG 224	Applications in Geographic Information Systems	3		GEOG 120 and 220
SRVY 135	Elementary Surveying	3		MATH 105, 130 or 150
SRVY 235	Advanced Surveying	3		SRVY 135
Total Credit	Hours Required	64		

A.A.S. Engineering Technology: Computer & Electronics Emphasis

General Edu	ication Requirements		Semester	
	k Electronics)	Credits	Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
HIST 120	U.S. History to 1865 or			
HIST 121	U.S. History since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 120	College Algebra and			MATH 110 or satisfactory placement test score
MATH 130	Trigonometry or	5-6		
MATH 150	Pre-Calculus			
MATH 180	Analytic Geometry and Calculus I	5		MATH 130 or 150
Specific Prog	gram Requirements			
CHEM 111	General College Chemistry I or			MATH 120 or satisfactory score on placement test
PHYS 130	General Physics I or	5		(CHEM 111)
PHYS 220	Engineering Physics I			MATH 130
				Enrollment in or completion of MATH 190
CSIS 123	Programming Fundamentals	3		MATH 40/40L or placement test
CSIS 223	Object-Oriented Programming	3		MATH 110 and CSIS 123
EHSS 111	Intro to Health & Safety for General Industry or	1		
EHSS 112	Intro to Health & Safety for Construction			
ETEC 152	Engineering Graphics & CADD I	5		MATH 40/40L
ETEC 118	AC Circuit Analysis	4		ETEC 110 or ETEC 110
ETEC 130	Digital Electronics	4		ETEC 110 or ETEC 110
ETEC 220	Analog Devices	4		ETEC 118
ETEC 230	Microcontroller Architecture	4		ETEC 130
ETEC 240	Design Project or	3		ETEC 270
ETEC 275	Build Project	J J		ETEC 220
ETEC 290	Internship in Engineering Technology or	3		
ETEC 295	Capstone Project in Engineering Technology	٥		
ENGR 101	Introduction to the Profession	1		
INTE 110	Industrial Electrical Principle	4		
Electives- cho	ose one: CSIS or INTE	3-4		
Total Credit	Hours Required	64-66		

A.A.S. Engineering Technology: Construction Management

General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 HIST 121	United States History to 1865 or United States History since 1865	3		
MATH 120 MATH 130 MATH 150	College Algebra and Trigonometry or Pre-Calculus	5-6		MATH 110 or satisfactory placement test score
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate test score
PHYS 101	Introductory Physics	5		
Specific Prog	gram Requirements			
BSAD 101	Accounting Principles I	3		
BSAD 254 BSAD 270	Business Law or Legal Environment of Business	3		
CSIS 115	Introduction to Microcomputer Applications	3		
ECON 210	Macroeconomics	3		MATH 40 or 40L or satisfactory placement test score
ENGR 101	Introduction to the Profession	1		
ETEC 152	Engineering Graphics & CADD I	5		MATH 40 or 40L
ETEC 155	Introduction to Residental Architecture	3		ETEC 152
ETEC 200	Applied Statics and Mechanics	3		MATH 104 or MATH 130
ETEC 210	Introduction to Commercial Architecture	3		ETEC 152 and 155
ETEC 211	Building Information Modeling	3		ETEC 152
SRVY 135	Elementary Surveying	3		MATH 130 or 150
Specific Ma	jor Requirements (offered at UCM Summit)			
CMGT 1300	Introduction to Construction Management	2		
CMGT 2325	Project Cost Estimating	3		CMGT 2310 or GRAP 1110
CMGT 3320	Principles of Construction Management (online)	3		
CMGT 3330	Building Codes & Code Administration (online)	3		CMGT 2310, or consent of instructor
Total Credit	Hours Required	65-66		

A.A.S. Engineering Technology: Mechanical/Manufacturing Emphasis

General Edi	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
EHSS 111	Introduction to Health & Safety for General Industry	1		
SPAN 100	Beginning Occupational Spanish	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
HIST 120	U.S. History to 1865 or			
HIST 121	U.S. History since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 130	Trigonometry or	3		MATH 120 or satisfactory score or placement test
MATH 150	PreCalculus	5		MATH 110 or satisfactory score or placement test
MATH 180	Analytic Geometry and Calculus I	5		MATH 130 or 150
Specific Pro	gram Requirements for:			
	ril & Mechanical/Maufacturing & Architecture			
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L or appropriate placement test score
ETEC 153	Descriptive Geometry	4		ETEC 152
ETEC 200	Applied Statics & Mechanics	3		MATH 104 or 130
ETEC 268	Structural Steel Blueprint Reading	3		ETEC 152
ETEC 269	CADD II	4		ETEC 152 or 169
ENGR 101	Introduction to the Profession	1		
PHYS 130	General Physics or	5		MATH 130 or appropriate placement test score.
PHYS 220	Engineering Physics	5		Enrollment in or completion of MATH 190
	phasis Requirements			
	chanical/Manufacturing			
ETEC 258	Introduction to Machine Design	3		ETEC 152
ETEC 270	Parametric Modeling or	3		ETEC 152 or 169
ETEC 271	Parametric Modeling, Alternate			
MATE 116	Geometric Dimensioning and Tolerancing Printreading	2		MATE 115
MATE 130	Machining for Related Occupations	5		
MATE 210	Computerized Numerical Control - Lathe or			MATE 101 or 130. MATH 103 or concurrent
	Compatenzea Hamenear Control Editio	3		enrollment.
MATE 215	Computer Numerical Control - Mill			MATE 101 or 130. MATH 103 or concurrent enrollment.
MATE 225	Master Cam I	3		CSIS 110, MATE 210 and 215
	t Hours Required	68-70		00.0 1.0, MITE 210 did 210

Environmental Health & Safety Technology Offered at MCC-Business & Technology

A.A.S. Environmental	. 66-69 Credits	Green Manufacturing	. 19 Credits
A.A.S. Health & Safety	. 66-69 Credits	Health & Safety Management	. 28 Credits
A.A.S. Envir. Health & Safety Tech	. 66-69 Credits	Health & Safety Specialist	. 31 Credits

Certificates

Envir. Health & Safety Tech 34 Credits Environmental Specialist 31 Credits This program provides a specialized technical background necessary to work in the field of environmental health and safety.

A.A.S. EHSS Environmental

COLL 100	First Year Seminar	1		
COLL 100	First real Seminal	Į.	Camaatan	
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
	of the following:			
BIOL 101	General Biology or			BIOL 100 or CHEM 105 (BIOL 109)
BIOL 102	Environmental Science or			
BIOL 108	Introductory Anatomy and Physiology <i>or</i>	5-6		
BIOL 109	Anatomy and Physiology <i>or</i>			
GEOL 103	Environmental Geology <i>or</i>			
PHYS 101	Physics			
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score (
ENGL 215	Technical Writing	3		ENGL 101
CHEM 105	Introductory Chemistry or	5		MATH 20 or two units of high school algebra and
CHEM 111	General College Chemistry I			CHEM 107 or high school chemistry (CHEM 111)
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
BSAD 120	Organizational Development or	3		
BSAD 221	Business Communications	3		
MATH 103R	Technical Math I or			
MATH 103	Technical Mathematics <i>or</i>	3-5		MATH 40/40L (MATH 103)
MATH 120	College Algebra <i>or</i>	3-3		INIATTI 40/40E (INIATTI 100)
MATH 120R	College Algebra w/ Review			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	ucation Requirements	28-31		
Core Progra	nm Requirements	22		
EHSS 101	Hazardous Waste Operations & Emergency Response (HAZWOPER)	3		
EHSS 110	Properties and Hazards of Hazardous Materials	3		
EHSS 200	Safety and Health Regulations and Standards	3		
EHSS 201	EHS Laboratory	1		EHSS 101
EHSS 202	Transportation and Storage of Hazardous Materials	3		EHSS 203
EHSS 203	Environmental Regulations	3		
EHSS 204	Emergency Preparedness and Planning	3		EHSS 101
EHSS 290	EHS Program Capstone	3		EHSS 204
EHSS 275	Analytical Applications for EHS	3		MATH 130 or higher
Environment	al Emphasis			
Choose three	of the following:			EHSS 101 (EHSS 217)
EHSS 217	Concepts of Sustainability Recycling and Pollution Prevention			EHSS 203 (EHSS 220)
EHSS 220	Air Quality Management or	9		EHSS 203 (EHSS 225)
EHSS 225	Water Quality Management or			EHSS 203 (EHSS 230)
EHSS 230	Waste Management			L1100 200 (L1100 200)
Total Credit	Hours Required	66-69		

A.A.S. EHSS Health and Safety

COLL 100	First Year Seminar	1		
COLL 100	riist teal Sellilliai	'	Semester	
	cation Requirements	Credits	Taken	Prerequisites
Choose one	of the following:			
BIOL 101	General Biology or			BIOL 100 or CHEM 105 (BIOL 109)
BIOL 102	Environmental Science or			
BIOL 108	Introductory Anatomy and Physiology or	5-6		
BIOL 109	Anatomy and Physiology <i>or</i>			
GEOL 103	Environmental Geology or			
PHYS 101	Physics			
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score (
ENGL 215	Technical Writing	3		ENGL 101
CHEM 105	Introductory Chemistry or	5		MATH 20 or two units of high school algebra and
CHEM 111	General College Chemistry I	9		CHEM 107 or high school chemistry (CHEM 111)
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
BSAD 120	Organizational Development or	3		
BSAD 221	Business Communications	3		
MATH 103R	Technical Math I or			
MATH 103	Technical Mathematics or	3-5		MATH 40/40L (MATH 103)
MATH 120	College Algebra <i>or</i>	3-5		WATTI 40/40L (WATTI 103)
MATH 120R	College Algebra w/ Review			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	ucation Requirements	28-31		
	am Requirements	22		
EHSS 101	Hazardous Waste Operations & Emergency	3		
	Response (HAZWOPER)	3		
EHSS 110	Properties and Hazards of Hazardous Materials	3		
EHSS 200	Safety and Health Regulations and Standards	3		
EHSS 201	EHS Laboratory	1 1		EHSS 101
EHSS 202	Transportation and Storage of Hazardous Materials	3		EHSS 203
EHSS 203	Environmental Regulations	3		
EHSS 204	Emergency Preparedness and Planning	3		EHSS 101
EHSS 275	Analytical Applications for EHS	3		MATH 103 or higher
EHSS 290	EHS Program Capstone	3		EHSS 204
Health & Sat	fety Emphasis			
	of the following:			
EHSS 205	Principles of Industrial Hygiene or			
EHSS 210	Incident & Accident Investigation or	9		EHSS 200
EHSS 211	Workers Compensation Legislation for EHS or			
EHSS 218	Industrial Process and Hazard Control			
Total Credit	Hours Required	66-69		

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A.A.S. EHSS Environmental Health and Safety Technology

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
	of the following:			
BIOL 101	General Biology or			BIOL 100 or CHEM 105 (BIOL 109)
BIOL 102	Environmental Science or	_		
BIOL 108	Introductory Anatomy and Physiology or	5-6		
BIOL 109	Anatomy and Physiology or			
GEOL 103	Environmental Geology <i>or</i>			
PHYS 101	Introductory Physics			
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
BSAD 221	Business Communications or	3		ENGL 30 or appropriate placement test score
BSAD 120	Organizational Development	3		'''''
CHEM 105	Introductory Chemistry or	5		MATH 20 or two units of high school algebra and
CHEM 111	General College Chemistry I	5		CHEM 107 or high school chemistry (CHEM 111)
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 103R	Technical Math I or			
MATH 103	Technical Mathematics or	2.5		MATH 40/401 (MATH 402)
MATH 120	College Algebra or	3-5		MATH 40/40L (MATH 103)
MATH 120R	College Algebra w/ Review			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
General Ed	ucation Requirements	28-31		
Core Progra	m Requirements			
EHSS 101	Hazardous Waste Operations & Emergency	0		
	Response (HAZWOPER)	3		
EHSS 110	Properties and Hazards of Hazardous Materials	3		
EHSS 200	Safety and Health Regulations and Standards	3		
EHSS 201	EHS Laboratory	1		EHSS 101
EHSS 202	Transportation and Storage of Hazardous Materials	3		EHSS 203
EHSS 203	Environmental Regulations	3		
EHSS 204	Emergency Preparedness and Planning	3		EHSS 101
EHSS 275	Analytic Applications for EHS	3		MATH 103 or higher
EHSS 290	EHS Program Capstone	3		EHSS 204
	tal Health & Safety Emphasis			21100 204
	of the following:			
EHSS 205	Principles of Industrial Hygiene or			
EHSS 210	Incident & Accident Investigation <i>or</i>	6		EHSS 200
EHSS 211	Workers Compensation Legislation for EHS or	١ ،		1100 200
EHSS 218	Industrial Process & Hazard Control			
	of the following:			
EHSS 217	Concepts of Sustainability Recycling and Pollution Prevention			EHSS 101 (EHSS 217)
or	Concepts of Sustainability (Necycling and Foliution Prevention			EHSS 203 (EHSS 220)
EHSS 220	Air Quality Management or	6		EHSS 230 (EHSS 225)
EHSS 225	Water Quality Management or			Li 100 200 (Li 100 220)
EHSS 230	Waste Management			
	Hours Required	66-69		
Total Credit	nours nequired	60-09		

Environmental Health and Safety Technology Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 221	Business Communications or			ENGL 30 or appropriate placement test score
ENGL 119	Introduction to Report Writing or	3		(BSAD 221)
ENGL 215	Technical Writing			ENGL 101 (ENGL 215)
EHSS 101	Hazardous Material Management and Emergency Response Operations	3		
EHSS 110	Properties and Hazards of Hazardous Materials	3		
EHSS 200	Safety and Health Regulations and Standards	3		
EHSS 202	Transportation and Storage of Hazardous Materials	3		EHSS 203
EHSS 203	Environmental Regulations	3		
EHSS 204	Emergency Preparedness and Planning	3		EHSS 101
EHSS 205	Principles of Industrial Hygiene	3		EHSS 200
EHSS 210	Incident and Accident Investigation or	3		FUEC 200 (FUEC 240)
EHSS 211	Workers Compensation Legislation for EHS	3		EHSS 200 (EHSS 210)
EHSS 217	Concepts of Waste Minimization, Recycling, and			
	Pollution Prevention or	3		EHSS 101 (EHSS 217)
EHSS 230	Waste Management			
EHSS 290	EHS Program Capstone	3		EHSS 204
Total Credit	Hours Required	34		

Environmental Specialist Certificate

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COLL 100	First Year Seminar	1				
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites		
BSAD 221	Business Communications	3		ENGL 30 or appropriate placement test score (BSAD 221)		
EHSS 101	Hazardous Material Management and Emergency Response Operations	3				
EHSS 110	Properties and Hazards of Hazardous Materials	3				
EHSS 200	Safety and Health Regulations and Standards	3				
EHSS 202	Transportation and Storage of Hazardous Materials	3		EHSS 203		
EHSS 203	Environmental Regulations	3				
EHSS 204 EHSS 217	Emergency Preparedness and Planning <i>or</i> Concepts of Waste Minimization, Recycling, and Pollution Prevention	3		EHSS 101		
EHSS 220	Air Quality Management	3		EHSS 203		
EHSS 225	Water Quality Management	3		EHSS 203		
EHSS 290	EHS Capstone	3		EHSS 204		
Total Credit	Hours Required	31				

Green Manufacturing Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CSOF 100	Introduction to Personal Computing	1		
EHSS 101	Hazardous Material Management &	2		
	Emergency Response Operations	3		
EHSS 111	Introduction to Health & Safety for General Industry	1		
EHSS 217	Concepts of Sustainability, Recycling and	9		EHSS 101
	Pollution Prevention	3		L1133 101
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
CIMM 100	Introduction to Machining and Manufacturing	3		
MATE 117	Processes & Quality	4		
Total Credit	Hours Required	19		

Health and Safety Management Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 101	Accounting Principles I	3		
BSAD 105	Human Resources Management	3		
BSAD 120	Organizational Behavior	3		
BSAD 221	Business communications	3		ENGL 30 or appropriate placement test score
Environment	al Health and Safety			
EHSS 200	Safety and Health Regulations and Standards	3		
EHSS 210	Incident and Accident Investigation	3		EHSS 200
EHSS 211	Workers Compensation Legislation for EHS	3		EHSS 200
EHSS 218	Industrial Process and Hazard Control	3		EHSS 200
EHSS 290	EHS Capstone	3		EHSS 204
Total Credit	Hours Required	28		

Health and Safety Specialist Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 221	Business Communications	3		Satisfactory ASSET score or ENGL 30 (BSAD 221)
EHSS 101	Hazardous Material Management and Emergency Response Operations	3		
EHSS 110	Properties and Hazards of Hazardous Materials	3		
EHSS 200	Safety and Health Regulations and Standards	3		
EHSS 202	Transportation and Storage of Hazardous Materials	3		EHSS 203
EHSS 203	Environmental Regulations	3		
EHSS 204	Emergency Preparedness and Planning	3		EHSS 101
EHSS 205	Principles of Industrial Hygiene or	3		EHSS 200 (EHSS 205)
EHSS 218	Industrial Process and Hazard Control	3		EHSS 200 (EHSS 218)
EHSS 210	Incident and Accident Investigation or	3		EHSS 200
EHSS 211	Workers Compensation Legislation for EHS	3		ENSS 200
EHSS 290	EHS Capstone	3		EHSS 204
Total Credi	t Hours Required	31		

Human Services

Fire Science Technology

Offered at MCC-Blue River

 This program, which offers an Associate in Applied Science degree and certificate, provides advanced professional training in fire science.

Most metropolitan fire departments require FFI and FFII certification prior to employment. The Public Safety Institute of MCC-Blue River satisfies all requirements for FFI and FFII as well as CPAT, Haz-Mat awareness, Haz-Mat operations, and EMT. The Academy offers two levels of firefighting training. Full-time day and part-time night classes are available.

Successful graduates of the Academy will obtain their state certification in the above mentioned areas.

A.A.S. Fire Science Technology

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 100	Mathematics for Business or higher	3		MATH 20 or 20L or appropriate placement score
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech <i>or</i>	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication	_		Error of appropriate placement test seers
	ation elective 100 or above	3-5		
Specific Pro	gram Requirements			
EMS 150	Emergency Medical Technician-Basic	8		Student must be 18 years old by the end of the course
FSTE 161	Fire Investigation I	3		FSTE 204, FSTE 205
FSTE 169	Fire Prevention	3		
FSTE 170	Haz-Mat Awareness and Operations	3		
FSTE 172	Strategies and Tactics	3		FSTE 104
FSTE 179	Principles of Emergency Services	4		
FSTE 192	Fire Protection Systems	3		
FSTE 193	Legal Aspects of the Fire Service	3		
FSTE 202	Intro to Fire and Emergency Services Administration	3		
FSTE 203	Managing in Today's Fire Service/ Capstone	3		FSTE 200, 204
FSTE 204	Principles of Fire Emergency Safety and Survival	3		
FSTE 205	Fire Behavior and Combustion	3		
FSTE 206	Fire Investigation II	3		
FSTE 107	Fire Science Physical Fitness I	1		Enrollment in Fire Academy
FSTE 108	Fire Science Physical Fitness II	1		FSTE 107
FSTE 109	Fire Science Physical Fitness III	1		FSTE 108
Total Credit	Hours Required	67-69		

Fire Science Technology

Fire Science Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
EMS 150	Emergency Medical Technician-Basic	8		The student must be 18 years old by the end of the course and must hold a high school diploma or GED.
FSTE 161	Fire Investigation I	3		FSTE 204, FSTE 205
FSTE 169	Fire Prevention	3		
FSTE 170	Haz-Mat Awareness and Operations	3		
FSTE 179	Principles of Emergency Services	4		
FSTE 189	Fire Fighter II	4		FSTE 179
FSTE 107	Fire Science Physical Fitness I	1		Enrollment in MCC Fire Academy
FSTE 108	Fire Science Physical Fitness II	1		FSTE 107
FSTE 109	Fire Science Physical Fitness III	1		FSTE 108
FSTE 204	Principles of Fire Emergency Safety and Survival	3		
Total Credi	t Hours Required	32		

Arts & Communication

Foreign Language Interpreting

Offered at MCC-Maple Woods

Foreign Language	
Interpreting Certificate	16 Credits

This program provides students with the fundamentals of foreign language interpreting with an emphasis in medical and legal settings. Admission to the program required.

Foreign Language Interpreting Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
FLIN 100	Introduction to Interpreting	3		Admission to certificate program
FLIN 105	Fundamentals of Interpreting	3		FLIN 100 or concurrent enrollment
FLIN 110	Medical Interpreting	3		FLIN 105
FLIN 115	Legal Interpreting	3		FLIN 105
FLIN 120	Practicum	3		FLIN 110 and FLIN 115
Total Credit	Hours Required	16		

Human Services

Forensic Chemistry

Offered at Kansas City Kansas Community College Coordinated at MCC

A.A.S. Forensic Chemistry 68-70 Credits

There are two goals for this program: 1) direct placement into a crime or chemistry related laboratory, or 2) continuation of degree in forensics, chemistry, dentistry, pre-law, pre-med, environmental science, etc.

Students must be accepted into the program by both MCC and KCKCC. The student is awarded the degree from KCKCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Forensic Chemistry

Specific Program Requirements Must be taken at one of the MCC campuses	Credits	Semester Taken	Prerequisites
BIOL Electives Any Biology course except BIOL 204	4-5		See Courses section of this catalog for individual course prerequisites.
CHEM 111 General College Chemistry I	5		MATH 120 or two units of high school algebra and CHEM 107 or high school chemistry
CHEM 112 General College Chemistry II	5		CHEM 111
CRJU 165 Criminology	3		
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102 Composition and Reading II	3		ENGL 101
MATH 180 Analytic Geometry & Calculus I	5		MATH 130 or 150
PHYS Physics Electives	4-5		
SPDR 100 Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Humanities Core Elective: Choose two of the following: Literature, Philosophy, ART 108, MUSI 108, HIST/HUMN 133, or HIST/HUMN 134	6		See Courses section of this catalog for individual course prerequisites.
Suggested Social Science Core Electives Include: PSYC 140, SOCI 160, ANTH 100	3		course prerequisites.
Specific Program Requirements Must be taken at Kansas City Kansas Community College			
HUDV 100/101 Strateges for Academic Excellence/ Lifelong Learning	1-2		
CHEM 101 Introduction to Forensic Science	5		
CHEM 201 Forensic Science Analytical Techniques	3		
CHEM 211 Organic Chemistry I	3		
CHEM 213 Organic Chemistry I Lab	2		
CHEM 212 Organic Chemistry II	3		
CHEM 214 Organic Chemistry II Lab	2		
Recommended Courses (not necessary for degree):			
CHEM 250 Biochemistry	2-4		
CHEM 251 Biochemistry Lab			
Total Credit Hours Required	68-70		

Business, Management & Technology

Game Development

Offered at JCCC. Coordinated at all campuses.

A.A.S. Game Development 64 credits

The game development Associate in Applied Science degree provides students with the focused knowledge and understanding of game design and development useful in qualifying for entry level industry positions as game programmers, tool builders, collision detections developers, engine builders and interface programmers as well as video and online training developers, Q/A (Question/Answer) Testers, customer supporters and simulations developers.

Completion of this degree program will greatly enhance students' ability to create code for 2D/3D graphics and real time virtual environments. Additional skills will include an understanding of game ethics, of the proper presentation of "game bibles" and of math and physics required to model a realistic game world. Program course and credit hours are subject to change because of the requirement changes at the degree-granting institution. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Game Development

Specific Program Requirements (Must be taken at JCCC)	Credits	Semester Taken	Prerequisites
GAME 102 The Business of Games	3		
GAME 104 Introduction to Game Development	1		
GAME 105 Beginning Game Creation	3		
GAME 180 Artificial Intelligence for Games*	3		
GAME 240 Agile Game Development*	2		
GAME 250 Game Capstone*	4		
Game Elective	3		
Design Track Courses or	28		
Programming Track Courses	20		
Design Track Courses			
ENGL 150 Digital Narratives*	3		
GAME 120 Game Design I*	4		
GAME 132 Game Level Editing*	4		
GAME 134 Game World Creation*	4		
GAME 136 Game Prototyping*	4		
GAME 220 Game Design II*	4		
GAME 235 Game Quality Assurance*	2		
GAME 238 Serious Game Design*	3		
Programming Track Courses			
CS 201 Concepts of Programming Algorithms Using C#*	4		
CS 236 Object-Oriented Programming Using C#*	4		
GAME 110 Flash Gaming	4		
GAME 121 Game Programming I*	4		
GAME 221 Game Programming II*	4		
GAME 255 Mobile Game Programming*	4		
MATH 191 Math & Physics for Games I* or			
PHYS 191 Math & Physics for Games I*	4		
Game Electives			
GAME 110 Flash Gaming	4		
GAME 120 Game Design I*	4		
GAME 121 Game Programming I*	4		
GAME 132 Game Level Editing*	4		
GAME 134 Game World Creation*	4		
GAME 136 Game Prototyping*	4		
GAME 220 Game Design II*	4		
GAME 221 Game Programming II*	4		
GAME 235 Game Quality Assurance*	2		
GAME 238 Serious Game Design*	3		
GAME 255 Mobile Game Programming*	4		
GAME 292 Special Topics:*	3		
ENGL 150 Digital Narratives*	3		
HUM 155 Classical Mythology	3		
HUM 156 World Mythology	3		
* Prerequisite/Corerequisite required			

continued on next page

Game Development

A.A.S. Game Development continued...

Specific Programs Requirement- Must be taken at MCC	Credits	Semester Taken	Prerequisites/Equivalences
CSIS 123 Programming Fundamentals	3		
ENGL 101 Composition & Reading I	3		
MATH 120 College Algebra	3		
SPDR 100 Fundamentals of Speech or			
SPDR 102 Fundamentals of Human Communication <i>or</i>	3		
SPDR 103 Interpersonal Communication			
Humanities Elective	3		
Social Science/Economics Elective	3		
Physical Education Elective	1		
Total Credit Hours Required	66		

Social Science and Economics Electives that will transfer from MCC to JCCC:

ANTH 100, ANTH 110, ANTH 120, ECON 110, ECON 210, ECON 211, GEOG 111, GEOG 112, POLS 135, POLS 136, POLS 137, POLS 234, PSYC 140, SOCI 160, SOCI 163, SOCI 170, SOCI 220

Health, Physical Education & Recreation Electives that will transfer from MCC to JCCC:
DANC 100, DANC 111, DANC 121, DANC 122, EMS 100, PHED 105, PHED 106, PHED 107, PHED 108, PHED 109, PHED 110, PHED 113, PHED 114, PHED 117, PHED 118, PHED 119, PHED 120, PHED 121, PHED 122, PHED 123, PHED 126, PHED 127, PHED 128, PHED 129, PHED 130, PHED 131, PHED 135, PHED 136, PHED 137, PHED 141, PHED 142, PHED 143, PHED 144, PHED 145, PHED 146, PHED 147, PHED 157, PHED 158, PHED 159, PHED 166, PHED 167, PHED 168, PHED 173, PHED 179, PHED 179, PHED 180

Geographic Information Systems

Offered at MCC-Maple Woods and MCC-Longview

Geographic	Information	Systems		
Certificate			34-40	Credits

This is a professional certificate that gives the GIS user the tools needed to obtain a good job in the field of GIS or to advance in their chosen field. It also prepares students to complete their AA degree or transfer to a four-year institution. GIS professionals are found in the fields of city, county and state government, economics, natural resources, conservation, pollution, industry, science, infrastructure planning, public works, transportation, architecture, education, healthcare, travel, and space industry.

Geographic Information Systems Certificate

COLL 100	First Year Seminar	1			
Specific Program Requirements		Credits	Semester Taken	Prerequisites	
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score	
GEOG 120	Introduction to Geographic Information Systems	3			
GEOG 220	GIS Database and Design	3		GEOG 120	
GEOG 224	Applications in Geographic Information Systems	3		GEOG 120 and 220	
GEOG 228	Administrative Issues in GIS	3		GEOG 120	
GEOG 230	Geographic Information Systems Internship	1-3		GEOG 120 and 220	
One of the fol	lowing:			CSIS 110 or 115 (CSIS 128)	
CSIS 128	Web Development	3		CSIS 110 or 115 (CSIS 126)	
CSIS 143	Database Design and Management	3		One Windows based course (CSIS 177)	
CSIS 177	Database Application and Design with Access			Offe Willdows based course (CSIS 177)	
One of the fol					
GEOG 105	World Geography				
GEOG 113	Cultural/Human Geography	3			
GEOG 114	Introduction to Geography	J 3			
GEOG 207	Geography of the United States and Canada				
GEOG 210	Economic Geography				
One of the fol					
GEOG 104	Physical Geography	5			
GEOL 101	Physical Geology	3			
GEOL 103	Environmental Geology				
	Two courses from the following (not taken above):				
	BIOL 101, 104, 106, 117				
BSAD 204, 205, 210, 211, 212, 213					
CSIS 128, 143, 177					
CRJU 101, 112, 132		6-10		See Courses section of this catalog for individual course prerequisites.	
ETEC 152, 169		0-10			
ECON 110, 210, 211					
GEOG 104, 105, 110, 113, 114, 207, 210					
GEOL 101, 103					
SRVY 135, 13	· · · · · · · · · · · · · · · · · · ·				
Total Credit	Hours Required	34-40			

Graphic Design

Offered at MCC-Penn Valley

A.A.S. Graphic Design...... 64 Credits

This program leads to the Associate in Applied Science degree and prepares students for jobs as graphic designers or transfer to a four-year degree program.

A.A.S. Graphic Design

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ART 103	Design Foundations	3		
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 119	College Math or higher	3		MATH 20 or 20L or appropriate placement test score
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication	3		ENGL 30 of appropriate placement test score
Any ART History course		3		
Specific Prog	gram Requirements			
GDES 110	Computers in Design I	3		
ART 110	Drawing I	3		
ART 115	Orientation to Graphic Communications*	3		
ART 123	Color Theory	3		ART 103 or concurrent enrollment
GDES 160	Graphic Design I*	3		GDES 150 or concurrent enrollment, READ 11/31 or higher, formal acceptance
GDES 150	Computers in Design II	3		GDES 110
ART 247	Digital imaging or			GDES 110 (ART 247)
ART 282	Graphic Media - Advanced Color Correction or	3		GDES 110 and ART 115 (ART 282)
ART 139	Film & Darkroom Photography			, ,
ART 250	Printmaking <i>or</i>	0		
ART 254	Silk Screen Printing I	3		
GDES 210	Graphic Design II*	3		GDES 160
GDES 245	Web Design*	3		GDES 150 or equivalent
GDES 250	Graphic Design III*	3		GDES 210 or concurrent enrollment
GDES 255	Advanced Web Design*	3		GDES 245
ART 281	Introduction to Graphic Media - File Preparation*	3		GDES 110 and ART 115
GDES 264	Art Portfolio- Graphic Design	3		GDES 210 or concurrent enrollment
ART	Elective	6		
Total Credit	Hours Required	64		

Recommended Electives (suggested categories based on student intent

Graphic Desi	ign	Illustration		Graphic Med	lia emphasis	Transfer	
GDES 290*	GD Internship	ART 105	DigitalArtFoundations	ART 282*	GM-Adv Color CX	ART 111	Drawing II
ART 157*	History of GD	ART 270*	Illustration	ART 283*	Adv Graphic Media	ART 220	Painting I
ART 283*	GM-Adv. Color Cx	ART 111	Drawing II	ART 247*	Digital Imaging	ART 170	Ceramics
ART 104	3D Animation	ART 112	Drawing III				
ART 280*	Spec. Studies (in GD)	ART 113	Drawing IV				
ART 139*	Film and Darkroom	ART 220	Painting I				
	Photography	ART 221	Painting II				
ART 247	Digital Imaging	ART 222	Painting III				
ART 242	Photography II	APTX 130*	Fashion Illustration				
ART 282	AdvGM-AdvColorCX		and Technical Drawing				
ART 204	3D Animation II	ART 131*	Fashion Illustration II				
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^{*} These courses are only offered on the Penn Valley campus.

Arts & Communication

Graphic Media

Offered at MCC-Penn Valley

Graphic Media Technician Certificate25 Credits

This program, which leads to a certificate, is for students who want a career in printing and printers who want to update their skills.

Graphic Media Technician Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
GDES 110	Computers in Design I	3		
ART 115	Orientation to Graphic Communications	3		
GDES 202	Computers in Design II	3		GDES 110
ART 281	Introduction to Graphic Media - File Preparation	3		ART 115 and GDES 110
ART 282	Graphic Media - Advanced Color Correction	3		ART 115 and GDES 110
ART 283	Advanced Graphic Media	3		ART 115, 281, 282, GDES 150
ART 285	Variable Data Publishing	3		ART 281 and 282, GDES 150
ART 290	Graphic Media Internship	3		ART 283 and 285
Total Credit	Hours Required	25		

Grounds and Turf Management

Offered at MCC-Longview

A.A.S. Grounds & Turf Management	64	Credits
Grounds Maintenance Certificate		
Horticulture Certificate (JCCC)	31	Credits
Sustainable Agriculture Certificate (JC)	CC)	1
` ` `	,	Credits

This program leads to an Associate in Applied Science degree and a certificate of proficiency in Grounds Maintenance and prepares students for jobs in the groundskeeping and turf management industry. The Horticultural and Sustainability certificates are offered through Johnson County Community College. Students must be accepted into the program by both MCC and JCCC. The student is awarded the certificate from JCCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment in the certificate programs.

A.A.S. Grounds & Turf Management

COLL 100	First Year Seminar	1		
General Edu	rcation Requirements	Credits	Semester Taken	Prerequisites
BIOL 104	General Botany	5		
BIOL 202	Ecology	5		BIOL 101 or 104 or 106
CHEM 107	Preparatory General Chemistry	5		MATH 110 (or equivalent score on placement test) or one unit of High School Algebra
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
MATH 100	Mathematics for Business	3		MATH 20 or 20L or appropriate placement test score
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Specific Pro	gram Requirements			
AGBS 100	Introduction to Urban Agribusiness	3		
AGBS 106	Landscape Design and Maintenance	3		
AGBS 107	Deciduous Trees and Shrubs	3		
AGBS 109	Pest Management/Turf and Ornamental	3		
AGBS 115	Soil Fertility and Fertilizers	3		
AGBS 135	Turfgrass Management I	3		
AGBS 145	Irrigation and Installation	3		
12 hours from	the courses listed below:			
AGBS 108	Evergreens and Herbaceous Plants			
AGBS 140	Turfgrass Management II			
AGBS 151	Special Topics in Horticulture I	12		AGBS 106 (AGBS 206)
AGBS 152	Special Topics in Horticulture II	'-		100 100 (1000 200)
AGBS 153	Special Topics in Horticulture III			
AGBS 200	Occupational Internship			
AGBS 206	Advanced Landscape Design and Maintenance			
Total Credit	Hours Required	64		

Grounds and Turf Management

Grounds Maintenance Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
AGBS 100	Introduction to Urban Agribusiness	3		
AGBS 106	Landscape Design and Maintenance	3		
AGBS 107	Deciduous Trees and Shrubs	3		
AGBS 115	Soil Fertility and Fertilizers	3		
AGBS 135	Turfgrass Management I	3		
AGBS	Elective	3		
Total Credit	Hours Required	19		

Horticulture Certificate

Specific Program Requirements		Semester	
Must be taken at MCC	Credits	Taken	Prerequisites
AGBS 135 Turfgrass Management I	3		
AGBS 206 Advanced Landscape Design & Maintenance	3		
Specific Program Requirements			
Must be taken at Johnson County Community College			
HORT 135 Landscape Design	3		
HORT 201 Intro to Horticulture	4		
HORT 205 Plant Propagation	3		
HORT 214 Woody Plants I, Deciduous	3		
HORT 215 Woody Plants II, Evergreen	3		
HORT 220 Herbaceous Plants	3		
HORT 225 Plant Problems*	3		HORT 214 and 220
Electives			
May be taken at Metropolitan Community College or Johnson County	Community	College	
Choose (3) credit hours from the following:			
May be taken at JCCC:			
SPD 128 Business and Professional Speech			
HORT 150 Fruits, Vegetables, and Herb Crops			
HORT 160 Garden Center Operations			
HORT 255 Landscape Pest Control			
HORT 260 Soils			
HORT 270 Horticulture Internship			
May be taken at MCC:			
BSAD 219 Entrepreneurship			
BSAD 150 Introduction to Business			
Total Credit Hours Required	31		*Prerequisite/corequisite required

Sustainable Agriculture Certificate

	9		
Specific Pro	gram Requirements: Must be Taken at JCCC		
HMGT 165	Food Industry Compliance & Safety	3	
HMGT 167	Local Food Production	3	
HORT 245	Commercial Crop Production	3	
HORT 260	Horticulture Soils	3	
HORT 272	Sustainable Agriculture Fall Practicum	2	
HORT 274	Sustainable Agriculture Spring Practicum	2	
HORT 276	Sustainable Agriculture Summer Practicum	2	
Specific Pro	gram Requirements: Must be Taken at MCC		
AGBS 109	Pest Management/Turf and Ornamental	3	
Elective Pro	gram Requirements		
May be taker	n at JCCC or MCC		
Electives: M	ay be taken at JCCC		
BIOL 134	Principles of Sustainability	3	
ENTR 142	Fast Trac Business Plan	3	
ENTR 180	Opportunity Analysis	2	
SOC 205	Sociology of Food	3	
HORT 165	Arboriculture	3	
HORT 201	Intro to Horticultural Science	4	
Electives: M	ay be taken at MCC		
BSAD 219	Entrepreneurship	3	
BSAD 150	Introduction to Business	3	
Total Credi	t Hours Required	29	
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Health Information Technology

Offered at MCC-Penn Valley

A.A.S. Health Information Technology70.5 Credits Coding Specialist Certificate35.5 Credits

An introduction to information technology specific to healthcare and health information management. Topics include computer hardware, operating systems, networking concepts, programming languages, and user interfaces specific to healthcare. Special emphasis is placed on the practical application of database management principles, including the design and normalization of data tables, data security, and information retrieval and reporting inherent in electronic health records management.

This program offers an Associate in Applied Science degree and a Coding Specialist certificate. The program prepares students in all aspects pertaining to health records, including medical coding, Medicare compliance, analysis of documentation and computerization. Graduates of the A.A.S. program are eligible to take the national certification exam for registered health information technicians. The program is accredited by Commission on Accreditation of Health Informatics and Health Information Management.

Admission to the Program

Since enrollment is limited, students must apply for admission to the Health Information Technology program. For more information, go to **www.mcckc.edu/hite**

A.A.S. Health Information Technology

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
BIOL 108	Introductory Anatomy and Physiology	5.0		
BIOL 137	Intro to Pathology	4.0		BIOL 108
ENGL 101	Composition and Reading I	3.0		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3.0		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3.0		ENGL 30
	C 140 Strongly Recommended)	3.0		
Specific Pro	gram Requirements			
CSIS 115	Intro to Microcomputer Applications	3.0		
HITE 101	Intro to Health Information Technology Profession	2.0		
HITE 102	Health Record Systems, Analysis and Control	3.5		
HITE 103	Medical Terminology for Health Records	3.0		
HITE 106	Health Care Statistics	3.0		HITE 102
HITE 108	Legal Aspects of Health Information	3.0		HITE 102
HITE 109	Professional Practice I	2.5		BIOL 108 and HITE 102
HITE 110	Pharmacology	1.5		BIOL 108 and HITE 103
HITE 200	Intro to Classification Systems	1.0		
HITE 201	Quality Management	3.0		HITE 108
HITE 202	Classification Systems, Nomenclatures, Indexes, and Registers I	4.0		HITE 200
HITE 203	Professional Practice II	2.0		BIOL 108, HITE 202 and 210; or BIOL 108 and concurrent enrollment in HITE 202 and 210
HITE 207	Classification Systems, Nomenclatures, Indexes, and Registers II	3.0		BIOL 108 and HITE 202
HITE 208	Professional Practice III	2.0		HITE 203
HITE 210	Classification Systems and Nomenclatures for Ambulatory Care	3.0		HITE 200, BIOL 108 or concurrent enrollment in BIOL 108
HITE 214	Introduction to Healthcare Reimbursement	3.0		HITE 202 and HITE 210
HITE 211	Organization and Administration in Health Information	3.0		HITE 201, 202 and 203
HITE 216	Technology for Health Information	3.0		HITE 102 and CSIS 115
Total Credit	t Hours Required	70.5		

Health Information Technology

Coding Specialist Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BIOL 108	Introductory Anatomy and Physiology	5.0		
BIOL 137	Introduction to Pathology	4.0		BIOL 108
CSIS 115	Introduction to Microcomputer Applications	3.0		
HITE 103	Medical Terminology for Health Records	3.0		
HITE 110	Pharmacology	1.5		BIOL 108 and HITE 103
HITE 200	Introduction to Classification Systems	1.0		
HITE 202	Classification Systems, Nomenclatures, Indexes, and Registers I	4.0		HITE 200
HITE 203	Professional Practice II	2.0		BIOL 108, HITE 202 and 210; or BIOL 108 and concurrent enrollment in HITE 202 and 210
HITE 207	Classification Systems, Nomenclatures, Indexes, and Registers II	3.0		BIOL 108 and HITE 202
HITE 208	Professional Practice III	2.0		HITE 203
HITE 210	Classification Systems and Nomenclatures for Ambulatory Care	3.0		HITE 200, BIOL 108 or concurrent enrollment in BIOL 108
HITE 214	Introduction to Healthcare Reimbursement	3.0		HITE 202 and HITE 210
Total Credit	Hours Required	35.5		

Heating, Ventilation, Air Conditioning & Refrigeration

Offered at MCC-Business & Technology

A.A.S. HVAC	64-67 Credits
Energy Efficiency Certificate	43 Credits
HVAC Advanced Certificate	
HVAC Certificate	24 Credits

This program offers degree and certificate options leading to heating, ventilation and air conditioning careers.

A.A.S. Heating, Ventilation and Air Conditioning

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
Option 1:				MATH 40/40L or appropriate placement test score
MATH 103	Technical Mathematics I or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 103R	Technical Mathematics I w/ review or			or appropriate placement test score (MATH 120),
MATH 120	College Algebra or			MATH 120 or appropriate placement test score
MATH 120R	College Algebra w/ review and	5-7		(MATH 130)
MATH 104	Technical Mathematics II or			(WINTER TOO)
MATH 130	Trigonometry			MATH 110 or satisfactory score in Math
Option 2:				placement test (MATH 150)
MATH 150	PreCalculus or higher			' '
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Any course numbered 100 or higher from the following disciplines: ART, ANTH,				See Courses section of this catalog for individual
ECON, ENGL,	Foreign Language, GEOG (except 104 or 110 and GIS courses),	4-5		course prerequisites.
	MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR			
	gram Requirements			
EHSS 111	Intro to Health & Safety for General Industry or	1		
EHSS 112	Intro to Health & Safety for Construction			
HVAC 109	Electricity for HVAC/R Technicians	4		
HVAC 109	Electricity for HVAC/R Technicians	4		
HVAC 111	Principles of Heating, Ventilation and Air Conditioning	3		
HVAC 120	Fundamentals of Refrigeration	4		
HVAC 135	Residential Heating and Air Conditioning I	4		HVAC 109 (or take concurrently), HVAC 111, 120
HVAC 136	Residential Heating and Air Conditioning II	4		HVAC 135
HVAC 221	Commercial Refrigeration	4		HVAC 109, 120, 136
HVAC 230	Sheet Metal Layout and Fabrication	4		
HVAC 235	Systems Installation	3		HVAC 136 and 230
HVAC 240	Geo-Thermal & Air Source Heat Pumps	3		HVAC 136
INTE 124	Employment Strategies for Technical Careers	2		CSOS 100 or CSIS 115
INTE 224	Energy Management, Efficiency and Conservation	3		
6 hours from t		6		
HVAC/INTE/W	/ELD electives	_		
Total Credit	Hours Required	64-67		

Heating, Ventilation, Air Conditioning & Refrigeration

Energy Efficiency Certificate

COLL 100	First Year Seminar	1		
General Edu	ncation Requirements	Credits	Semester Taken	Prerequisites
HVAC Job Re	ady Certificate	24		
HVAC 240	Geo-Thermal Heat Pumps	3		HVAC 136
HVAC 201	Stationary Engineering	3		HVAC 111 and 120
INTE 224	Energy Management, Efficiency, and Conservation	2		CSOF 100 or CSIS 115 or higher
GEOL 180	Energy and the Environment	3		
BSAD 219	Entrepreneurship	5		
*Includes HVA	AC 109, 111, 120, 135, 136, 230	3		
Total Credit	Hours Required	43		

Heating, Ventilation and Air Conditioning Advanced Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
HVAC 109	Electricity for HVAC/R Technicians	4		
HVAC 111	Principles of Heating, Ventilation and Air Conditioning	3		
HVAC 120	Fundamentals of Refrigeration	4		
HVAC 135	Residential Heating and Air Conditioning I	4		HVAC 109 (or take concurrently), HVAC 111, 120
HVAC 136	Residential Heating and Air Conditioning II	4		HVAC 135
HVAC 221	Commercial Refrigeration	4		HVAC 109, 120, and 136
HVAC 230	Sheet Metal Layout and Fabrication	4		
HVAC 235	Systems Installation	3		HVAC 136 and 230
HVAC 240	Geo-Thermal & Air Source Heat Pumps	3		HVAC 136
HVAC 201	Stationary Engineering or	3		HVAC 111 and 120 (HVAC 201)
INTE 224	Energy Management, Efficiency, and Conservation	3		HVAC 109 and INTE 115 (INTE 175)
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
MATH 103R	Technical Mathematics I w/ Review or higher	3-4		MATH 40 or 40L
Total Credit	Hours Required	42-43		

Heating, Ventilation and Air Conditioning Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
HVAC 109	Electricity for HVAC/R Technicians	4		
HVAC 111	Principles of Heating, Ventilation and Air Conditioning	3		
HVAC 120	Fundamentals of Refrigeration	4		
HVAC 135	Residential Heating and Air Conditioning I	4		HVAC 109 (or take concurrently), HVAC 111, 120 and 230 (or take concurrently)
HVAC 136	Residential Heating and Air Conditioning II	4		HVAC 135
HVAC 230	Sheet Metal Layout and Fabrication	4		
Total Credi	Hours Required	24		

Offered at Johnson County Community College Coordinated at MCC

A.A.S. Hospitality Mgmt.	
Chef Apprenticeship	75 Credits
Food and Beverage	
Hotel and Lodging	64 Credits
Dietary Manager Certificate	27 Credits

This program leads to an Associate in Applied Science degree with three options: Chef Apprenticeship, Hotel and Lodging, and Food and Beverage as well as Dietary Manager certificate. It provides an overview of the various departmental functions, the position of the industries in the American economic system, and the functions and limitations of those types of establishments. Students must be accepted into the program by both MCC and Johnson County Community College. The student is awarded the degree from JCCC upon successful completion of all requirements.

Program courses and credit hours are subject to change because of requirement changes at the degree-granting institution. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Hospitality Mgmt. Chef Apprenticeship

Specific Pro Must be take	gram Requirements n at one of the MCC campuses	Credits	Semester Taken	Prerequisites
CSIS	Computer Science Elective	1		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HUMN	Humanities Elective	3		See Courses section of this catalog for individual course prerequisites.
MATH 100	Mathematics for Business or higher	3		MATH 20 or 20L or appropriate placement test score
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech or			ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication or	3		(SPDR 102)
SPDR 103	Interpersonal Communications			(SPDR 102)
Specific Pro	gram Requirements			
Must be take	n at Johnson County Community College			
HMEC 151	Nutrition and Meal Planning	3		
HMGT 120	Food Service Sanitation	1		
HMGT 121	Perspectives of Hospitality Management	3		
HMGT 123	Professional Cooking I*	3		See JCCC course descriptions in the Courses
HMGT 128	Supervisory Management*	3		section of this catalog for individual course
HMGT 220	American Regional Cuisine*	3		prerequisites.
HMGT 223	Fundamentals of Baking	3		
HMGT 226	Garde-Manger*	3		Humanities Electives that will transfer from MCC to JCCC: ART 108, ART 150, ART 151, ART 159, ENGL
HMGT 228	Advanced Hospitality Management*	3		120, ENGL 121, ENGL 122, ENGL 124, ENGL 127, ENGL
HMGT 230	Professional Cooking II*	3		128, ENGL 142, ENGL 150, ENGL 151, ENGL 165, ENGL
HMGT 231	Advanced Food Preparation*	4		167, ENGL 220, ENGL 221, ENGL 222, ENGL 223, FREN
HMGT 271	Seminar in Hospitality Management: Purchasing	3		203, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST
HMGT 273	Hospitality Cost Accounting*	3		133, HIST 134, HIST 140, HUMN 140, HUMN 145, MUSI
HMGT 277	Seminar in Hospitality Management: Menu Planning*	3		108, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203,
HMGT 279	Beverage Control	3		SPDR 114, SPDR 128
HMGT 281	Culinary Arts Practicum I*	2		Computer Floatives that will transfer from MCC to
HMGT 282	Culinary Arts Practicum II*	2		Computer Electives that will transfer from MCC to JCCC: CSOF 100, CSOF 101, CSOF 102, CSOF 103,
HMGT 285	Culinary Arts Practicum III*	2		CSOF 104, CSOF 106, CSIS 115
HMGT 286	Culinary Arts Practicum IV*	2		
HMGT 287	Culinary Arts Practicum V*	2]
HMGT 288	Culinary Arts Practicum VI*	2]
HMGT	Hospitality Program Elective	3		
Hospitality P	rogram Electives			

Humanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, GERM 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 134, HIST 140, HIST 150, HUMN 103, HUMN 133, HUMN 134, HUMN 140, HUMN 145, MUSI 108, MUSI 160, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128

Computer Electives that will transfer from MCC to JCCC:

CSOF 100, CSOF 101, CSOF 102, CSOF 103, CSOF 104, CSOF 106, CSIS 115

HMGT 126 Food Management* 4

HMGT 130 Hospitality Law 3

HMGT 132 Seminar in Housekeeping Operations 3

HMGT 150 Sem: Food Service Sales & Marketing 3

HMGT 203 Hotel Sales & Marketing* 3

HMGT 207 Hospitality Human Resource Management* 3

HMGT 221 Design & Facilities Management* 3

HMGT 240 Advanced Baking* 4

HMGT 248 Confectionery Arts 3

HMGT 250 Introduction to Catering 3

HMGT 256 Casino Management 3

HMGT 265 Front Office Management 3

HMGT 268 Hospitality Managerial Accounting*

*Prerequisite/Corequisite required

Total Credit Hours Required

75

A.A.S. Hospitality Management Food and Beverage

Specific Program Requirements Must be taken at one of the MCC campuses	Credits	Semester Taken	Prerequisites
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
MATH 100 Mathematics for Business or higher	3		MATH 20 or 20L or appropriate placement test score
PSYC 140 General Psychology	3		
SPDR 100 Fundamentals of Speech or SPDR 102 Fundamentals of Human Communications or SPDR 103 Interpersonal Communications	3		ENGL 30 or appropriate placement test score (SPDR 102)
Computer Elective	1		See Courses section of this catalog for individual
Humanities Requirement	3		course prerequisites.
Specific Program Requirements Must be taken at Johnson County Community College			
HMEC 151 Nutrition and Meal Planning	3		
HMGT 120 Food Service Sanitation	1		
HMGT 121 Perspectives of Hospitality Management	3		
HMGT 123 Professional Cooking I*	3		
HMGT 126 Food Management*	4		
HMGT 128 Supervisory Management	3		
HMGT 150 Seminar: Food Service Sales & Marketing	3		
HMGT 207 Hospitality Human Resource Management*	3		See JCCC course descriptions in the Courses
HMGT 221 Design and Facilities Management*	3		section of this catalog for individual course
HMGT 228 Advanced Hospitality Management*	3		prerequisites.
HMGT 230 Professional Cooking II*	3		
HMGT 268 Hospitality Managerial Accounting*	3		
HMGT 271 Seminar in Hospitality Management: Purchasing	3		
HMGT 273 Hospitality Cost Accounting*	3		
HMGT 277 Seminar in Hospitality Mgmt: Menu Design & Planning*	3		
HMGT 279 Beverage Control	3		
Hospitality Program Elective - must choose from one course JCCC	3		
Total Credit Hours Required	66		

Computer Electives that will transfer from MCC to JCCC:

CSOF 100, CSOF 101, CSOF 103, CSOF 104, CSOF 106, CSIS 115

Humanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, GERM 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 134, HIST 140, HIST 150, HUMN 103, HUMN 133, HUMN 134, HUMN 140, HUMN 145, MUSI 108, MUSI 160, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128

Hospitality Program Electives:

HMGT 130, HMGT 203, HGMT 223, HGMT 250, HGMT 256, HGMT 275

*Prerequisite/corequisite required

A.A.S. Hospitality Management Hotel and Lodging

Specific Program Requirements Must be taken at one of the MCC campuses	Credits	Semester Taken	Prerequisites	
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score	
MATH 100 Mathematics for Business or higher	3		MATH 20 or 20L or appropriate placement test score	
PSYC 140 General Psychology	3			
SPDR 100 Fundamentals of Speech or SPDR 102 Fundamentals of Human Communications or SPDR 103 Interpersonal Communications	3		ENGL 30 or appropriate placement test score (SPDR 102)	
PHED 158 First Aid/CPR	2			
Computer Elective	1		See Courses section of this catalog for individual	
Humanities Elective	3		course prerequisites.	
Specific Program Requirements Must be taken at Johnson County Community College				
HMGT 120 Food Service Sanitation	1			
HMGT 121 Perspectives of Hospitality Management	3			
HMGT 123 Professional Cooking I*	3			
HMGT 128 Supervisory Management	3			
HMGT 132 Seminar: Housekeeping Operation	3			
HMGT 203 Hotel Sales and Marketing*	3			
HMGT 207 Hospitality Human Resource Management*	3		See JCCC course descriptions in the Courses	
HMGT 228 Advanced Hospitality Management*	3		section of this catalog for individual course pre-	
HMGT 230 Professional Cooking II*	3		requisites.	
HMGT 235 Seminar: Risk Management and Loss Prevention	3		requiotes.	
HMGT 265 Front Office Management	3			
HMGT 268 Hospitality Managerial Accounting*	3			
HMGT 273 Hospitality Cost Accounting*	3			
HMGT 275 Seminar in Hospitality Management: Internship*	3			
HMGT 279 Beverage Control	3			
Recommended Hospitality Management Program Electives	3			
Total Credit Hours Required	64			

Hospitality Electives at JCCC:

HMEC 151 **Nutrition and Meal Planning**

Food Management*

HMGT 126 HMGT 130 Hospitality Law

HMGT 221 Design and Facilities Management*

HMGT 223 Fundamentals of Baking

Introduction to Catering HMGT 250

HMGT 256 Casino Management

HMGT 271 Seminar in Hospitality Management: Purchasing HMGT 277 Seminar in Hospitality Management: Menu Planning

Computer Electives that will transfer from MCC to JCCC:

CSOF 100, CSOF 101, CSOF 102, CSOF 103, CSOF 104, CSOF 106, CSIS 115

Humanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, GERM 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 134, HIST 140, HIST 150, HUMN 103, HUMN 133, HUMN 134, HUMN 140, HUMN 145, MUSI 108, MUSI 160, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128

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*Prerequisite/corequisite required

Dietary Manager Certificate

COLL 100	First Year Seminar	1			
Specific Prog	gram Requirements (must be taken at JCCC)	Credits	Semester Taken	Prerequisites	
HMEC 151	Nutrition & Meal Planning	3			
HMGT 120	Food Service Sanitation	1			
HMGT 123	Professional Cooking I*	3			
HMGT 128	Supervisory Management	3			
HMGT 207	Hospitality Human Resource Management*	3			
DIET 100	Foodservice Management for Dietary Managers	3			
DIET 105	Foodservice Internship for Dietary Managers	1			
DIET 200	Medical Nutrition Therapy*	3			
DIET 205	Medical Nutrition Therapy Seminar*	1			
Specific Pro	gram Requirements (must be taken at MCC)	Credits	Semester Taken	Prerequisites	
ENGL 101	Composition and Reading I	3			
MATH 100	Mathematics for Business or higher	3			
Total Credit	Total Credit Hours Required 27				
* Prerequisite/Corerequisite required					

Human Services

Offered at MCC-Longview

A.A.S. Human Services

Drug Addiction Services 66-68 Credits

Certificates

Drug Addiction Services	31 Credits
Mental Health Technician	23 Credits
Youth Development Worker	13-15 Credits
Youth Work	34 Credits

This program offers an Associate in Applied Science degree and certificate options. The program prepares students for career advancement or entry-level jobs that assist families with their social, behavioral, educational, or mental health needs.

A.A.S. Human Services Drug Addiction Services

General Education Requirements Credits Semester Taken Prerequisites	COLL 100	First Year Seminar	1	
BIOL 132 Human Nutrition 3-5 ENGL 101 Composition and Reading I 3 ENGL 30 or appropriate placement test score HIST 120 United States History Since 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to Political Science or Introduction to State and Local Politics or Introduction to State and Local Politics PSYC 140 General Psychology 3 PSYC 140 General Psychology 3 PSYC 140 General Psychology 3 PSYC 182 Correctional Psychology 3 PSYC 140 General Psychology 3 General	General Edu	ncation Requirements	Credits	 Prerequisites
BIOL 132 Human Nutrition Composition and Reading I 3 ENGL 30 or appropriate placement test score HIST 120 United States History to 1865 or HIST 121 United States History to 1865 or POLS 135 Introduction to Political Science or POLS 135 Introduction to Namician National Politics or Introduction to American National Politics or POLS 137 Introduction to State and Local Politics PSYC 140 General Psychology 3 PSYC 140 Sociology 4			3-5	
HIST 120 United States History to 1865 or HIST 210 United States History Since 1865 or POLS 135 Introduction to Political Science or 3 Introduction to Political Science or 3 Introduction to State and Local Politics or Introduction to State and Local Politics or Introduction to State and Local Politics or PSYC 140 General Psychology 3 PSYC 140 General Psychology 3 PSYC 148 Group Processes 3 PSYC 140 Sociology 3 PSYC 148 Group Processes 3 PSYC 140 Sociology 3 SOSCI 160 Sociology 3 SOSCI 171 Comparative Ethnic and Cultural Studies 3 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or SOSCI 171 Alcohol and Drug Addiction or Addiction Counseling with Special Populations or HUMS 275 Addiction Counseling with Special Populations or HUMS 285 Addiction Counseling with Special Populations 3 Addiction Counseling with Special Populations 3 HUMS 285 Addiction Client Management or Technology and Information Management or SCISI 110 Technology and Information Management or SCISI 110 Technology and Information Management or SCISI 110 Introduction to Human Services 3 HUMS 163 Therapeutic Activities and Recreation 1 HUMS 163 Therapeutic Activities and Recreation 1 HUMS 175 Spirituality in Addiction Recovery 1 HUMS 175 Spirituality in Addiction Recovery 1 HUMS 177 Positive Dependency 1 HUMS 178 Women's Issues in Addiction 1 HUMS 179 Addiction Management 1 HUMS 179 HUMS 201 Lower's Spirituality in Addiction Introduction 1 HUMS 201 Lower's Process Practicum 1 HUMS 201 Lower's Process Practicum 1 HUMS 201 Lower's Practicum I HUMS 201 Lorequisite HUMS 201 Colloquia I HUMS 20				
HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or 9 3 POLS 136 Introduction to Political Science or 9 3 Introduction to Political Science or 9 3 Introduction to State and Local Politics or 100 General Psychology 3 PSYC 140 General Psychology 3 PSYC 162 Correctional Psychology 3 PSYC 140 PSYC 180 Group Processes 3 PSYC 140 PSYC 180 Sociology 3 PSYC 140 PSYC 180 P		Composition and Reading I	3	ENGL 30 or appropriate placement test score
POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics or POLS 137 Introduction to State and Local Politics or PSYC 140 General Psychology 3 PSYC 140 Senderal Psychology 3 PSYC 140 PSYC 148 Group Processes 3 PSYC 140 PSYC 148 Group Processes 3 PSYC 140 PSYC 140 PSYC 140 PSYC 140 PSYC 148 Group Processes 3 PSYC 140 PSYC		United States History to 1865 or		
POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics PSYC 140 General Psychology PSYC 162 Correctional Psychology PSYC 162 Correctional Psychology PSYC 163 Group Processes PSYC 140 Sociology PSYC 162 Sociology PSYC 162 Sociol Welfare				
POLS 137			3	
PSYC 140 General Psychology 3 PSYC 162 Correctional Psychology 3 PSYC 148 Group Processes 3 SOCI 160 Sociology 3 ANTH 110 Cultural Anthropology or 3 SOSC 171 Comparative Ethnic and Cultural Studies 3 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements 8 Security 275 Alcohol and Drug Addiction or 3 Alcohol and Drug Addiction Or 3 CRJU 275 Alcohol and Drug Addiction or 3 Addiction Counseling with Special Populations or 3 Addiction Counseling with Special Populations or 3 Addiction Counseling with Special Populations 3 CRJU 286 Addiction Counseling with Special Populations 3 Addiction Counseling with Special Populations </td <td></td> <td></td> <td></td> <td></td>				
PSYC 162 Correctional Psychology 3 PSYC 140 PSYC 148 Group Processes 3 PSYC 140 SOC 160 Sociology 3 PSYC 140 SOSC 171 Comparative Ethnic and Cultural Studies 3 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements Second and Drug Addiction or 3 CRJU 275 Alcohol and Drug Addiction or 3 HUMS 275 Alcohol and Drug Addiction or 3 HUMS 280 Addiction Counseling with Special Populations or 3 HUMS 280 Addiction Client Management or 3 CSIS 110 Technology and Information Management or 3 CSIS 115 Introduction to Microcomputer Applications 3 HUMS 100 Introduction to Practicum 1 HUMS 168 Introduction to Practicum 1 HUMS 172 Aging, Alcoholism and Medications 1 HUMS 176 Addiction Recovery 1 HUMS 177 Positive Dependency 1				
PSYC 148 Group Processes 3 PSYC 140 SOCI 160 Sociology 3 SOC 171 Cultural Anthropology or SOSC 171 Comparative Ethnic and Cultural Studies 3 SPDR 100 Fundamentals of Speech 3 ENGL 30 or appropriate placement test score Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction or HUMS 275 Addiction Counseling with Special Populations or Addiction Counseling with Special Populations or Addiction Cilent Management or HUMS 280 Addiction Cilent Management or HUMS 280 Addiction Cilent Management or Technology and Information Management or SIS 110 Technology and Information Management or Introduction to Human Services 3 HUMS 163 Therapeutic Activities and Recreation 3 HUMS 163 Therapeutic Activities and Recreation 3 HUMS 163 Introduction to Practicum 1 HUMS 175 Spirituality in Addiction Recovery 1 HUMS 176 Addiction Management 1 HUMS 177 Positive Dependency 1 HUMS 178 Women's Issues in Addiction 1 HUMS 179 HUMS 201 HUMS 202 HUMS 202 Colloquia I HUMS 202 Colloquia I HUMS 202 Corequisite HUMS 203 HUMS 200 Social Welfare 3 HUMS 200 HUMS 200 HUMS 200 HUMS 200 Social Welfare 3 HUMS 200 HUMS 200 HUMS 200 Social Welfare 3 HUMS 200 HUMS 200 Social Welfare 3 HUMS 200 HUMS 200 HUMS 200 HUMS 200 Social Welfare 3 HUMS 200 HUMS 200 HUMS 200 HUMS 200 HUMS 200 HUMS 200 HUM				
SOCI 160 Sociology ANTH 110 Cultural Anthropology or SOSC 171 Comparative Ethnic and Cultural Studies SPDR 100 Fundamentals of Speech Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction or HUMS 285 Addiction Counseling with Special Populations or Addiction Counseling with Special Populations CRJU 285 Addiction Client Management or HUMS 285 Addiction Client Management or CSIS 110 Technology and Information Management or CSIS 115 Introduction to Microcomputer Applications HUMS 100 Introduction to Human Services HUMS 163 Therapeutic Activities and Recreation 3 HUMS 168 Introduction to Practicum HUMS 175 Spirituality in Addiction Recovery 1 HUMS 176 Addiction Management HUMS 176 Addiction Management HUMS 177 Positive Dependency HUMS 178 Women's Issues in Addiction 1 HUMS 201 Human Services Practicum I HUMS 201 Human Services Practicum I HUMS 201 Colloquia II HUMS 201 Colloquia II HUMS 201 Colloquia II HUMS 201 Colloquia II HUMS 202 Social Welfare 3 HUMS 201 Human Services Practicum II HUMS 201 Colloquia II HUMS 202 Social Welfare 3 HUMS 201 Human Services Practicum II HUMS 201 Colloquia II HUMS 202 Social Welfare 3 HUMS 201 Human Services Practicum II HUMS 201 Colloquia II HUMS 202 Social Welfare 3 HUMS 201 Social Welfare 3 HUMS 201 Hums 202 Social Welfare				
ANTH 110 Cultural Anthropology or SOSC 171 Comparative Ethnic and Cultural Studies SPDR 100 Fundamentals of Speech SPDR 100 Fundamentals of Speech Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction or Addiction Counseling with Special Populations or HUMS 275 Alcohol and Drug Addiction Counseling with Special Populations or HUMS 280 Addiction Counseling with Special Populations CRJU 285 Addiction Client Management or Addiction Client Management or Addiction Counseling with Special Populations CSIS 110 Technology and Information Management or CSIS 115 Introduction to Microcomputer Applications HUMS 100 Introduction to Microcomputer Applications HUMS 101 Introduction to Practicum HUMS 163 Therapeutic Activities and Recreation 1 HUMS 172 Aging, Alcoholism and Medications 1 HUMS 175 Spirituality in Addiction Recovery 1 HUMS 176 Addiction Management 1 HUMS 177 Positive Dependency 1 HUMS 178 Women's Issues in Addiction 1 HUMS 179 Positive Dependency 1 HUMS 170 HUMS 201 Human Services Practicum II HUMS 201 Colloquia II HUMS 202 Colloquia II HUMS 203 Colloquia II HUMS 204 Colloquia II HUMS 205 Social Welfare 1 HUMS 200 Social Welfare				PSYC 140
SOSC 171 Comparative Ethnic and Cultural Studies SPDR 100 Fundamentals of Speech Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction or HUMS 280 Addiction Counseling with Special Populations or HUMS 280 Addiction Client Management or HUMS 285 Addiction Client Management or CSIS 110 Technology and Information Management or SIS 110 Introduction to Microcomputer Applications HUMS 163 Therapeutic Activities and Recreation HUMS 163 Introduction to Practicum HUMS 175 Spirituality in Addiction Recovery HUMS 175 Spirituality in Addiction Recovery HUMS 176 Addiction Management HUMS 177 Positive Dependency HUMS 178 Women's Issues in Addiction HUMS 201 Human Services Practicum I HUMS 202 Human Services Practicum II HUMS 204 Colloquia I HUMS 205 Interviewing and Inter		Sociology	3	
SOSC 171 Comparative Etinic and Cultural studies SPDR 100 Fundamentals of Speech Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction CRJU 280 Addiction Counseling with Special Populations or HUMS 280 Addiction Counseling with Special Populations CRJU 285 Addiction Client Management or HUMS 285 Addiction Client Management or CSIS 110 Technology and Information Management or CSIS 110 Introduction to Microcomputer Applications HUMS 100 Introduction to Human Services 3 HUMS 163 Therapeutic Activities and Recreation HUMS 163 Introduction to Practicum HUMS 172 Aging, Alcoholism and Medications 1 HUMS 175 Spirituality in Addiction Recovery HUMS 176 Addiction Management HUMS 177 Positive Dependency 1 HUMS 178 Women's Issues in Addiction HUMS 201 Human Services Practicum II HUMS 201 Colloquia I HUMS 203 Colloquia I HUMS 204 Colloquia I HUMS 205 Social Welfare HUMS 206 Introvivening and Interviewing an		Cultural Anthropology <i>or</i>	3	
Specific Program Requirements CRJU 275 Alcohol and Drug Addiction or HUMS 275 Alcohol and Drug Addiction CRJU 280 Addiction Counseling with Special Populations or HUMS 280 Addiction Client Management or HUMS 285 Addiction Client Management CSIS 110 Technology and Information Management or CSIS 110 Introduction to Microcomputer Applications HUMS 100 Introduction to Human Services 1 Introduction to Practicum 1 HUMS 163 Therapeutic Activities and Recreation 1 HUMS 172 Aging, Alcoholism and Medications 1 HUMS 175 Spirituality in Addiction Recovery 1 HUMS 176 Addiction Management 1 HUMS 177 Positive Dependency 1 HUMS 178 Women's Issues in Addiction 1 HUMS 179 Human Services Practicum I 1 HUMS 201 Human Services Practicum I 1 HUMS 201 Colloquia I 1 HUMS 201 Interviewing and Interpersonal Communications 3 HUMS 201 Interviewing and Interpersonal Communications 3 HUMS 201 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 201 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Foreign 2 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Foreign 2 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Foreign 2 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Foreign 2 Hums 100 Interviewing and Interpersonal Communications 3 HUMS 200 Foreign 2 Hums 2 Hu			-	
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HUMS 275 Alcohol and Drug Addiction CRJU 280 Addiction Counseling with Special Populations or HUMS 280 Addiction Counseling with Special Populations CRJU 285 Addiction Client Management or HUMS 285 Addiction to Microcomputer Applications HUMS 186 Introduction to Microcomputer Applications HUMS 183 Therapeutic Activities and Recreation HUMS 184 Introduction to Practicum HUMS 185 Aging, Alcoholism and Medications HUMS 185 Spirituality in Addiction Recovery HUMS 186 Addiction Management HUMS 187 Positive Dependency HUMS 188 Women's Issues in Addiction HUMS 201 Human Services Practicum I HUMS 202 Human Services Practicum I HUMS 203 Colloquia I HUMS 204 Colloquia I HUMS 205 Colloquia I HUMS 206 Corequisite HUMS 207 Interviewing and Interpersonal Communications HUMS 208 Social Welfare HUMS 209 Social Welfare HUMS 180 HUMS 180 HUMS 180 HUMS 180 HUMS 180 HUMS 180 HUMS 280 Social Welfare HUMS 209 Social Welfare		gram Requirements		
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HUMS 280 Addiction Counseling with Special Populations CRJU 285 Addiction Client Management or HUMS 285 Addiction Client Management CSIS 110 Technology and Information Management or Introduction to Microcomputer Applications HUMS 100 Introduction to Human Services 3 HUMS 168 Introduction to Practicum HUMS 172 Aging, Alcoholism and Medications 1 HUMS 175 Spirituality in Addiction Recovery HUMS 176 Addiction Management HUMS 177 Addiction Management HUMS 178 Women's Issues in Addiction HUMS 179 Women's Issues in Addiction HUMS 201 Human Services Practicum I HUMS 202 Human Services Practicum II HUMS 203 Colloquia I HUMS 204 Interviewing and Interpersonal Communications 3 HUMS 205 Hums 207 Hums 207 Interviewing and Interpersonal Communications 3 HUMS 206 Hums 207 Hums 207 Interviewing and Interpersonal Communications 3 HUMS 207 Hums 208 Hums 209 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 201 Interviewing and Interpersonal Communications 3 HUMS 200 Hums 201 Welfare			3	
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HUMS 177 Positive Dependency 1 HUMS 178 Women's Issues in Addiction 1 HUMS 201 Human Services Practicum I 3 HUMS 100 and 168 HUMS 202 Human Services Practicum II 3 HUMS 201 HUMS 203 Colloquia I 1 HUMS 201 corequisite HUMS 204 Colloquia II 1 HUMS 202 corequisite HUMS 210 Interviewing and Interpersonal Communications 3 PSYC 162 HUMS 220 Social Welfare 3 HUMS 100	HUMS 175	Spirituality in Addiction Recovery	1	
HUMS 178 Women's Issues in Addiction 1 HUMS 201 Human Services Practicum I 3 HUMS 100 and 168 HUMS 202 Human Services Practicum II 3 HUMS 201 HUMS 203 Colloquia I 1 HUMS 201 corequisite HUMS 204 Colloquia II 1 HUMS 202 corequisite HUMS 210 Interviewing and Interpersonal Communications 3 PSYC 162 HUMS 220 Social Welfare 3 HUMS 100	HUMS 176	Addiction Management	1	
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HUMS 203Colloquia I1HUMS 201 corequisiteHUMS 204Colloquia II1HUMS 202 corequisiteHUMS 210Interviewing and Interpersonal Communications3PSYC 162HUMS 220Social Welfare3HUMS 100		Human Services Practicum II		
HUMS 204Colloquia II1HUMS 202 corequisiteHUMS 210Interviewing and Interpersonal Communications3PSYC 162HUMS 220Social Welfare3HUMS 100			1	HUMS 201 corequisite
HUMS 210Interviewing and Interpersonal Communications3PSYC 162HUMS 220Social Welfare3HUMS 100			1	
HUMS 220 Social Welfare 3 HUMS 100			3	
	Total Credit	Hours Required	66-68	

Human Services

Drug Addiction Services Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
PSYC 140	General Psychology	3		
SOCI 160	Sociology	3		
PSYC 162	Correctional Psychology	3		PSYC 140
CRJU 275 HUMS 275	Alcohol and Drug Addiction <i>or</i> Alcohol and Drug Addiction	3		
CRJU 280 HUMS 280	Addiction Counseling with Special Populations <i>or</i> Addiction Counseling with Special Populations	3		HUMS 275 and CRJU 275
CRJU 285 HUMS 285	Addiction Client Management or Addiction Client Management	3		HUMS 280 or CRJU 280
HUMS 100	Introduction to Human Services	3		
HUMS 168	Introduction to Practicum	1		HUMS 100
HUMS 172 HUMS 175	Aging, Alcoholism and Medications <i>or</i> Spirituality in Addiction Recovery <i>or</i>			
HUMS 176	Addiction Management or	1		
HUMS 177	Positive Dependency or			
HUMS 178	Women's Issues in Addiction			
HUMS 201	Human Services Practicum I	3		HUMS 100 and 168
HUMS 203	Colloquia I	1		HUMS 201 corequisite
Total Credit	Hours Required	31		

Mental Health Technician Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
PSYC 140	General Psychology	3		
READ 108	College Success Skills	3		
SOCI 160	Sociology	3		
CRJU 162	Correctional Psychology or	3		PSYC 162 (HUMS 210)
HUMS 210	Interviewing & Interpersonal Communications	J		1 010 102 (110M0 210)
HUMS 100	Introduction to Human Servicees	3		
HUMS 168	Introduction to Practicum	1		HUMS 100
HUMS 190	Community Mental Health	3		
HUMS 201	Human Services Practicum I	3		HUMS 168 and co-enrollment in HUMS 203
HUMS 203	Human Services Colloquia I	1		HUMS 168 and co-enrollment in HUMS 201
Total Credit	Hours Required	24		

Youth Development Worker Certificate

	I			
COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
HUMS 100	Introduction to Human Services	3		
HUMS 160	Principles of Youth Work	3		
HUMS 168	Introduction to Practicum	1		HUMS 100
HUMS 199	Human Services Seminar	1-3		
HUMS 201	Human Services Practicum I	3		HUMS 100 and 168
HUMS 203	Colloquia I	1		HUMS 201 corequisite
Total Credit	Hours Required	13-15		

Human Services

Youth Work Certificate

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
POLS 136	Introduction to American National Politics	3		
PSYC 140	General Psychology	3		
PSYC 245	Adolescent Psychology	3		PSYC 140
SOCI 160	Sociology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Specific Pro	gram Requirements			
CSIS 110 CSIS 115	Technology and Information Management <i>or</i> Introduction to Microcomputer Applications	3		
HUMS 100	Introduction to Human Services	3		
HUMS 160	Principles of Youth Work	3		
HUMS 168	Introduction to Practicum	1		HUMS 100
HUMS 191	Youth Development Seminar	1		
HUMS 201	Human Services Practicum I	3		HUMS 100 and 168
HUMS 203	Colloquia I	1		HUMS 201 corequisite
Total Credit	Hours Required	34		

Industrial Technologies

Offered at MCC-Business & Technology

A.A.S. Industrial Technology

Construction Management64 CreditsCritical Facilities71 CreditsIndustrial Electrical67 CreditsIndustrial Maintenance66 CreditsInstrumentation & Controls67-69 CreditsMilitary Technology64-68 CreditsMillwright65-69 CreditsMulti-craft63 CreditsPhotovoltaics65 CreditsStationary Engineer71 Credits

Industrial Technology Certificates

Industrial Electrical	35-36 Credits
Industrial Maintenance	36-39 Credits
Instrumentation & Controls	35-37 Credits
Millwright Certificate	36-37 Credits
Photovoltaic	36 Credits
Programmable Logic Controller	39-40 Credits
Stationary Engineer	
Sterile Processing and Environmenta	al Services
-	16 Credits

This program offers degree and certificate options leading to careers in Industrial Technology.

A.A.S. Indus. Tech. Construction Management

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
MATH 100 MATH 110	Mathematics for Business or Intermediate Algebra	3		MATH 20/20L or appropriate placement test score (MATH 100) MATH 40/40L or appropriate placement test score (MATH 110)
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	ation Electives: , 151, PHIL 100, PSYC 140, SOCI 160, HIST 120, 121, POLS 5	6		
Total Genera	Education Requirements	20		
Specific Pro	gram Requirements			
BSAD 100 BSAD 101	Introduction to Accounting <i>or</i> Accounting Principles I	3		
BSAD 109 BSAD 120	Principles of Supervision <i>or</i> Organizational Behavior	3		
CSMG 150 CSMG 160 CSMG 170 CSMG 180	Management Internship I and Management Internship II or f the following four CSMG courses: Construction Management Leadership Construction Project Management Communications for the Construction Trades General and Specialty Contractor Dynamics	6		
BSAD 219 BSAD 204	Entrepreneurship or Business Management	3		

continued on next page

Industrial Technologies

Offered at MCC-Business & Technology

A.A.S. Indus. Tech. Construction Management continued

Total Credit	Hours Required	64	
CSMG 270	Advanced Print Reading	2	CSMG 205
CSMG 260	Contract Documents	2	
CSMG 250	Construction Estimating	2	
CSMG 230	Productivity Improvement	2	
CSMG 220	Construction Planning and Scheduling	2	
CSMG 210	Accident Prevention and Loss Control	1	
CSMG 205	Intermediate Print Reading	2	CSMG 140
CSMG 140	Beginning Print Reading	2	
CSMG 130	Cost Awareness/Production Control	1	
CSMG 120	OSHA and Site Security	1	
CSMG 110	Problem Solving/Decision Making	1	
BSAD 270	Legal Environment of Business		
BSAD 255	Business Law II or	3	
BSAD 254	Business Law I or		
BSAD 221	Business Communications	3	
BSAD 205	Marketing	3	
CSIS	Any Programming Language Course		, , , ,
CSIS 115	Intro to Microcomputer Applications or	3	BSAD 101 (BSAD 153)
BSAD 153	Accounting Information Systems, PC or		

AAS INTE - Critical Facilities Emphasis

/ // (0	- Official Facilities Emphasis			
COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215 SPAN 100	Technical Writing or Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	of the following Math options			
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry PreCalculus or higher	5-7		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130)
Any course r ANTH, ECON	numbered 100 or higher from the following disciplines: ART, I, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	3-5		
Total Gener	ral Education Required	20		
Cara Drage	om Doguiromento			
CSOF 100	am Requirements Introduction to Personal Computing	1		
EHSS 111	Introduction to Health & Satety for General Industry	1		
INTE 107	Industrial Electrical Safety	1		
INTE 110 INTE 112 INTE 113	Industrial Electrical Principles or Industrial Electrical DC Principles and Industrial Electrical AC Principles	4		MATH 103 or concurrent enrollment (INTE 110) concurrent enrollment or completion of MATH 103R or higher (INTE 112) INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3		INTE 110
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
	ogram Requirements			
HVAC 111	Principles of Heating, Ventilation and Air Conditioning	3		
HVAC 135	Residental Heating and Air Conditioning I	4		HVAC 109, 111, 120 or taken concurrently
HVAC 136	Residental Heating and Air Conditioning II	4		HVAC 135
HVAC 201	Stationary Engineering	3		HVAC 111 and 120
HVAC 221	Commercial Refrigeration	4		HVAC 109, 120, and 136
HVAC 230	Sheet Metal Layout & Fabrication	4		
INTE 140	Fundamentals of Industrial Maintenance	3		INITE 110, 175 and CCOE 100 or concurrent

Total Credit Hours Required

Programmable Logic Controllers I

Electric Motor Controls II

Electrical Troubleshooting

INTE 271

INTE 275

INTE 276

4

3

3

71

INTE 110, 175 and CSOF 100 or concurrent

enrollment INTE 175

INTE 275

Offered at MCC-Business & Technology

A.A.S. INTE Industrial Electrical emphasis

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215 SPAN 100	Technical Writing <i>or</i> Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1:				
MATH 103	Technical Mathematics I or			MATH 40/40L or appropriate placement test score
MATH 103R	Technical Mathematics I w/ review or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 120	College Algebra or	5-7		or appropriate placement test score (MATH 120),
MATH 120R MATH 104	College Algebra w/ review and Technical Mathematics II or	5-7		MATH 120 or appropriate placement test score (MATH 130)
MATH 130	Trigonometry			MATH 130) MATH 110 or satisfactory score on math
Option 2:	riigonometry			placement test (MATH 150).
MATH 150	Precalculus or higher			pidoement test (W/ (111 100).
	umbered 100 or higher from the following disciplines: ART,			
	, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or	3-5		
GIS Courses)	, HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,			
SOSC, SOCI,				
	Education Requirements	20		
Core Progra	m Requirements			
CSOF 100	Introduction to Personal Computing	1		
EHSS 111	Introduction to Health & Safety for General Industry	1		
INTE 107	Industrial Electrical Safety	1		
INTE 110	Industrial Electrical Principles or			
INTE 112	Industrial Electrical DC Principles and	4		MATH 103 or concurrent enrollment
INTE 113	Industrial Electrical AC Principles	0		INITE 440
INTE 115 INTE 124	Electrical Print Reading Employment Strategies for Technical Careers	3		INTE 110 CSOF 100 or CSIS 115 or higher
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
	ectrical Program Requirements	ა		INVAC 109 OF INTE 115
INTE 142	National Electric Code	3		INTE 110
INTE 142 INTE 225	Industrial Electrical Print Reading	3		INTE 115
				INTE 113
INTE 271	Programmable Logic Controller I	4		enrollment
INTE 273	Variable Speed Motors and Drives	3		INTE 175 and 271
INTE 272	Programmable Logic Controller II	3		INTE 115 and 271
INTE 275	Electric Motor Controls II	3		INTE 175
INTE 277	Program Logic Controller Troubleshooting	3		INTE 115 and 271
INTE 276	Electrical Troubleshooting	3		INTE 275
Electives: CHI	EM, CSIS, INTE, MATE, PHYS, ETEC	6		
Total Credit	Hours Required	67		

Industrial Technologies

AAS INTE – Industrial Maintenance

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215	Technical Writing or	3		ENGL 101 (ENGL 215)
SPAN 100	Beginning Occupational Spanish			
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or	•		
POLS 135	Introduction to Political Science <i>or</i>	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			ENOLOGO I I I I I I I I I I I I I I I I I I
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1:	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			NAATIL 40/401
MATH 103	Technical Mathematics I or			MATH 40/40L or appropriate placement test score
MATH 103R	Technical Mathematics I w/ review or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 120	College Algebra or			or appropriate placement test score (MATH 120),
MATH 120R	College Algebra w/ review and	5-7		MATH 120 or appropriate placement test score
MATH 104	Technical Mathematics II or			(MATH 130)
MATH 130	Trigonometry			MATH 110 or satisfactory score on math
Option 2:				placement test (MATH 150).
MATH 150	Precalculus or higher			
Any course n	umbered 100 or higher from the following disciplines: ART,			
ANTH FCON	, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or	3-5		
	HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,			
SOSC, SOCI,				
	Education Requirements	20		
		20		
	m Requirements	4		
CSOF 100	Introduction to Personal Computing	1		
EHSS 111	Introduction to Health & Safety for General Industry	1		
INTE 107	Industrial Electrical Safety	1		
INTE 110	Industrial Electrical Principles or			MATH 103 or concurrent enrollment (INTE 110)
INTE 112	Industrial Electrical DC Principles and	4		concurrent enrollment or completion of MATH
INTE 113	Industrial Electrical AC Principles and	4		103R or higher (INTE 112)
	industrial Electrical AC Principles			INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3		INTE 110
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
	gram Requirements			
INTE 140	Fundamentals of Industrial Maintenance	3		
CIMM 105	Intro to Blueprint Reading	1		
				INITE 440
INTE 142	National Electric Code	3		INTE 110
INTE 150	Fundamentals of Hydraulics	3		
INTE 151	Industrial Rigging	3		
MATE 130	Machining for Related Occupations	5		
WELD 110	Welding Industry Fundamentals	3		
WELD 120	Thermal Cutting Processes Lecture	1		WELD 110 or taken concurrently
WELD 121	Thermal Cutting Processes Lab	1		WELD 120 or taken concurrently
Choose 1 of th	ne following 3 pairs:			
WELD 140	Shielded Metal Arc Welding I (Stick) Lecture and			WELD 121 or taken concurrently (WELD 140)
WELD 141	Shielded Metal Arc Welding I (Stick) Lab or			WELD 140 or taken concurrently (WELD 141)
WELD 150	Gas Metal Arc Welding I (MIG) Lecture <i>and</i>			WELD 121 or taken concurrently (WELD 150)
WELD 150	Gas Metal Arc Welding I (MIG) Lecture and Gas Metal Arc Welding I (MIG) Lab or			WELD 150 or taken concurrently (WELD 151)
WELD 151 WELD 160				WELD 121 or taken concurrently (WELD 160)
	Gas Tungsten Arc Welding I (TIG) Lecture and			WELD 160 or taken concurrently (WELD 161)
WELD 161	Gas Tungsten Arc Welding I (TIG) Lab	_		, , ,
	EM, CSIS, INTE, MATE, PHYS, ETEC	3		
Total Credit	Hours Required	66		

Industrial Technologies

AAS INTE - Instrumentation & Controls

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3	Idnell	ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215 SPAN 100	Technical Writing <i>or</i> Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
Option 1:				MATH 40/40L or appropriate placement test score
MATH 103	Technical Mathematics I or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 103R	Technical Mathematics I w/ review or			or appropriate placement test score (MATH 120),
MATH 120	College Algebra or			MATH 120 or appropriate placement test score
MATH 120R	College Algebra w/ review and	5-7		(MATH 130)
MATH 104 MATH 130	Technical Mathematics II or			,
Option 2:	Trigonometry			MATH 110 or satisfactory score in Math
MATH 150	Calculus or higher			placement test (MATH 150)
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement score
	umbered 100 or higher from the following disciplines: ART,	3		ENGL 30 of appropriate placement score
	, ENGL, FOREIGN LANGUAGE, GEOG (except 104, 110 or			
	rses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	3-5		
SOSC, SOCI,	SPDR			
Total General	Education Requirements	20		
Core Program	m Requirements			
CSOF 100	Introduction to Personal Computing	1		
INTE 107	Industrial Electrical Safety	1		
EHSS 111	Introduction to Health and Safety for General Industry	1		
	, , , , , , , , , , , , , , , , , , ,			MATH 103 or concurrent enrollment (INTE 110)
INTE 110	Industrial Electrical Principles or	4		concurrent enrollment or completion of MATH
INTE 112 INTE 113	Industrial Electrical DC Principles and Industrial Electrical AC Principles	4		103R or higher (INTE 112)
INTE ITS	industrial Electrical AC Principles			INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3		
INTE 175	Electric Motor Controls I	3		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
	gram Requirements			
CSIS 110	Technology and Information Management or	3		
CSIS 111	Microcomputer Hardware Concepts	3		CSIS 110
CSIS 123	Programming Fundamentals	3		MATH 40/40L or higher or appropriate score on placement test
INTE 225	Industrial Electrical Print Reading	3		INTE 115
INTE 270	Instrumentation & Process Control	3		INTE 225 and INTE 272
INTE 271	Programmable Logic Controllers I	4		INTE 110 and INTE 175 and CSOF 100 or concurrent enrollment
INTE 272	Programmable Logic Controllers II	3		INTE 115 and INTE 271
INTE 277	Programmable Logic Controller Troubleshooting	3		INTE 115 and INTE 271
INTE 280	Networking- HMI for the PLC	4		INTE 272
INTE 290	Programmable Logic Controllers Capstone	4		INTE 277 or concurrent enrollment
				INTE 277 OF CONCUTTENT ENFORMENT
Total Credit	Hours Required	69		

Industrial Technologies

A.A.S. Indus. Tech. Military Technology

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or 90 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Precalculus or higher	5-7		MATH 20 or 20L or appropriate placement test (MATH 103R) MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score on the math placement test (MATH 150)
	ourse numbered 100 or above	3-5		
	Education Requirements	18		
Specific Prog	gram Requirements			
	SS, ETEC, HVAC, INTE, MATE, WELD, CSIS)	15		
4 Year Military	Technology Training & Job Experience	30		
(Credit by Cer				
Total Credit	Hours Required	64-68		

^{*}MCC will award 30 college credits to students who successfully complete a documented military technology training program and the above 33-37 credit hours. The student must submit to the MCC Registrar documentation of successful completion of 4 years military technology training and job experience in the form of a certified page from the member's service record or a certified electronic transcript. The credit will be transcripted upon completion of 15 MCC credits.

Industrial Technologies

AAS INTE – Millwright

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215	Technical Writing or	3		ENGL 101 (ENGL 215)
SPAN 100	Beginning Occupational Spanish			2.102 101 (2.102 2.10)
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or	3		
POLS 135 POLS 136	Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i>	3		
POLS 136	Introduction to American National Politics of			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1:	Fundamentals of Speech	3		
MATH 103	Technical Mathematics or			MATH 40/40L or appropriate placement test score
MATH 103	Technical Mathematics I w/ review or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 120	College Algebra or			or appropriate placement test score (MATH 120),
MATH 120R	College Algebra w/ review and	5-7		MATH 120 or appropriate placement test score
MATH 104	Technical Mathematics II or			(MATH 130)
MATH 130	Trigonometry			1445 C.
Option 2:	···g-·······			MATH 110 or satisfactory score in Math
MATH 150	Calculus or higher			placement test (MATH 150)
Any course no	umbered 100 or higher from the following disciplines: ART,			
	, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or	3-5		
GIS Courses)	, HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,			
SOSC, SOCI,				
	Education Requirements	20		
	m Requirements			
CSOF 100	Introduction to Personal Computing	1		
INTE 107	Industrial Electrical Safety	1		
EHSS 111	Introduction to Health and Safety for General Industry	1		
INTE 110	Industrial Electrical Principles or			MATH 103 or concurrent enrollment (INTE 110)
INTE 112	Industrial Electrical DC Principles and	4		concurrent enrollment or completion of MATH
INTE 113	Industrial Electrical AC Principles	.		103R or higher (INTE 112)
	·			INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3		
INTE 175	Electric Motor Controls I	3		0005 400 0010 445
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115
	gram Requirements	4		
CIMM 105	Intro to Blueprint Reading	1		
INTE 140 INTE 150	Fundamentals of Industrial Maintenance	3		
	Fundamentals of Hydraulics and Pneumatics	3		
INTE 151	Industrial Rigging	3		INITE 440
INTE 260	Industrial Pipefitting and Plumbing Fundamentals	3		INTE 140
MATE 130	Machining for Related Occupations	5 3		
WELD 110	Welding Industry Fundamentals Thermal Cutting Processes Lecture and	-		WELD 110 or token concurrently
WELD 120	Thermal Cutting Processes Lecture and	1		WELD 110 or taken concurrently
WELD 121	Thermal Cutting Processes Lab	2		WELD 120 or taken concurrently
Electives	House Descriped	-		
iotal Credit	Hours Required	65-69		

AAS INTE – Multi-craft Emphasis

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215 SPAN 100	Technical Writing <i>or</i> Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 104 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry or Calculus or higher	5-7		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 130 or satisfactory score in math placement test (MATH 150).
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, I, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or I, HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total Genera	Education Requirements	20		
Core Progra	m Requirements			
CSOF 100	Intro to Personal Computing	1		
EHSS 111	Intro to Health & Safety for General Industry	1		
INTE 107	Industrial Electrical Safety	1		
INTE 110 INTE 112 INTE 113	Industrial Electrical Principles or Industrial Electrical DC Principles and Industrial Electrical AC Principles	4		MATH 103 or concurrent enrollment (INTE 110) concurrent enrollment or completion of MATH 103R or higher (INTE 112) INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3		INTE 110
INTE 124	Employment Strategies for Technical Careers	2		CSIS 115 or CSOF 100 or higher
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
	gram Requirements			
CIMM 105	Intro to Blueprint Reading	1		
INTE 140	Fundamentals of Industrial Maintenance	3		
HVAC 111	Principles of Heating, Ventilation, & Refrigeration	3		
MATE 130	Machining for Related Occupations	5		
	pose from the following disciplines: , INTE, MATE, ETEC	15		
	Hours Required	63		

AAS INTE - Photovoltaic Emphasis

COLL 100	First Year Seminar	1		
General Edu	ication Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215 SPAN 100	Technical Writing or Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Choose one of	of the following Math options			
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry PreCalculus or higher	5-7		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, I, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	3-5		
Total Gener	al Education Required	20		
Coro Broar	Core Program Requirements			
CSOF 100	Introduction to Personal Computing	1		

Core Progr	am Requirements		
CSOF 100	Introduction to Personal Computing	1	
EHSS 111	Introduction to Health & Satety for General Industry	1	
INTE 107	Industrial Electrical Safety	1	
INTE 110 INTE 112 INTE 113	Industrial Electrical Principles <i>or</i> Industrial Electrical DC Principles <i>and</i> Industrial Electrical AC Principles	4	MATH 103 or concurrent enrollment (INTE 110) concurrent enrollment or completion of MATH 103R or higher (INTE 112) INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3	INTE 110
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher
INTE 175	Electric Motor Controls I	3	HVAC 109 or INTE 115
Specific Pr	ogram Requirements		
INTE 142	National Electric Code	3	INTE 110
INTE 185	Photovoltaic Systems	3	
INTE 224	Energy Management, Efficiency & Conservation	3	
INTE 230	Solar/Photovoltaic Design/Installation	4	INTE 142, INTE 185, and either ETEC 110, HVAC 109 or INTE 110
INTE 242	Master and Journeyman Prep	3	INTE 142
INTE 270	Instrumentation and Process Controls	3	INTE 225 and INTE 272
INTE 271	Programmable Logic Controllers I	4	INTE 110, 175 and CSOF 100 or concurrent enrollment
INTE Elective	es	6	
Total Credi	t Hours Required	65	

AAS INTE – Stationary Engineer

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
ENGL 215 SPAN 100	Technical Writing <i>or</i> Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry PreCalculus or higher	5-7		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 130) MATH 110 or satisfactory score on math placement test.
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR			
Total General	Education Requirements	20		

Core Progr	Core Program Requirements					
CSOF 100	Introduction to Personal Computing	1				
EHSS 111	Introduction to Health & Satety for General Industry	1				
INTE 107	Industrial Electrical Safety	1				
INTE 110 INTE 112 INTE 113	Industrial Electrical Principles or Industrial Electrical DC Principles and Industrial Electrical AC Principles	4	MATH 103 or concurrent enrollment (INTE 110) concurrent enrollment or completion of MATH 103R or higher (INTE 112) INTE 112 or equivalent (INTE 113)			
INTE 115	Electrical Print Reading	3	INTE 110			
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher			
INTE 175	Electric Motor Controls I	3	HVAC 109 or INTE 115			
Specific Pr	ogram Requirements					
HVAC 109	Electricity for HVAC/R Technicians	4				
HVAC 111	Principles of Heating, Ventilation and Air Conditioning	3				
HVAC 120	Fundamentals of Refrigeration	4				
HVAC 201	Stationary Engineering	3	HVAC 111 and 120			
HVAC 221	Commercial Refrigeration	4	HVAC 109, 120, and 136			
HVAC 230	Sheet Metal Layout & Fabrication	4				
INTE 270	Instrumentation & Process Controls	3	INTE 225 & 272			
INTE 271	Programmable Logic Controller I	4	INTE 110, 175 and CSOF 100 or concurrent enrollment			
Electives: ET	EC, HVAC, INTE, MATE	3				
Total Credi	t Hours Required	71				

Industrial Electrical Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
CSIS 100	Introduction to Personal Computing	1		
EHSS 111	Introduction to Health and Safety in General Industry	1		
INTE 110	Industrial Electrical Principles	4		MATH 103 or concurrent enrollment
INTE 115	Electrical Print Reading	3		INTE 110
INTE 142	National Electric Code	3		INTE 110
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
INTE 271	Programmable Logic Controller I	4		INTE 110, 175 and CSOF 100 or concurrent enrolment
INTE 273	Variable Speed Motors and Drives	3		INTE 175 and 271
Any 3 of the fo INTE 272 INTE 275 INTE 277 INTE 225	bllowing: Programmable Logic Controller II Electric Motor Controls II Program Logic Controller Troubleshooting Industrial Electrical Print Reading	9		INTE 115 and 271 INTE 175 INTE 115 and 271 INTE 115
MATH 103R	Technical Math I w/ Review or higher	3-4		MATH 20 or appropriate placement score
Total Credit	Hours Required	35-36		

Industrial Maintenance Certificate

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
CSOF 100	Digital Literacy	2		
INTE 107	Industrial Electrical Safety	1		
EHSS 111	Introduction to Health and Safety in General Industry	1		
INTE 110 INTE 112 INTE 113	Industrial Electrical Principles or Industrial Electrical DC Principles and Industrial Electrical AC Principles	4		MATH 103 or concurrent enrollment (INTE 110) concurrent enrollment or completion of MATH 103R or higher (INTE 112) INTE 112 or equivalent (INTE 113)
INTE 115	Electrical Print Reading	3		INTE 110
INTE 124	Emplyment Strategies for Technical Careers	2		
INTE 140	Fundamentals of Industrial Maintenance	3		
INTE 150	Fundamentals of Hydraulics and Pneumatics	3		
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
MATH 103R	Technical Math I w/ review or higher	3-4		MATH 20 or appropriate placement score
MATE 130	Machining for Related Occupations	5		
WELD 100	Introduction to Welding/Cutting Processes	1		MATH 20 or appropriate placement score
Choose 2 of the INTE 121 INTE 221 INTE 142 CIMM 105	Internship & Co-Op and Internship & Co-Op II or National Electric Code and	4-6		INTE 110 (INTE 142)
	Introduction to Blueprint Reading Hours Required	36-39		

Instrumentation & Controls Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
CSIS 123	Programming Fundamentals	3		MATH 40/40L or appropriate placement score
EHSS 111	Intro to Health & Safety for General Industry	1		
Choose one	of the following Math options:			
Option 1:				
MATH 103R	Technical Mathematics I w/ Review or			
MATH 103	Technical Mathematics or			
MATH 120	College Algebra or	5-7		
MATH 120R	College Algebra w/ Review and	5-7		
MATH 104	Technical Mathematics II or			
MATH 130	Trigonometry			
Option 2:				
MATH 150	PreCalclus or higher			
ETEC 130	Digital Electronics or	4		Completion of or concurrent enrollment ETEC 110
INTE 280	Networking- HMI for the PLC	4		or INTE 110
INTE 110	Industrial Electrical Principles	4		
INTE 111	Microcomputer Hardware Repairs	3		
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
INTE 270	Instrumentation & Process Control	3		HVAC 201 or INTE 271
INTE 074	Dragrammahla Lagia Controllera I	4		INTE 110, INTE 175 & CSOF 100 or concurrent
INTE 271	Programmable Logic Controllers I	4		enrollment
INTE 291	Process Controls Capstone	4		INTE 270 and INTE 272
Total Credit	Hours Required	35-37		

Millwright Certificate

COLL 100	First Year Seminar	1		
Specific Program Requirements		Credits	Semester Taken	Prerequisites
CSIS 115	Introduction to Microcomputer Applications	3		
EHSS 111	Introduction to Health and Safety in General Industry	1		
INTE 110	Industrial Electrical Principles	4		MATH 103 or concurrent enrollment
INTE 140	Fundamentals of Industrial Maintenance	3		
INTE 150	Fundamentals of Hydraulics	3		
INTE 151	Industrial Rigging	3		
INTE 260	Industrial Pipefitting and Plumbing Fundamentals	3		INTE 140
MATE 115	Blueprint Reading for the Trades	3		
MATH 103R	Technical Mathematics I w/ review or higher	3-4		MATE 20 or appropriate placement score
WELD 140	Shielded Metal Arc Welding I (stick) Lecture	1		WELD 121 or concurrent enrollment
WELD 141	Shielded Metal Arc Welding I (stick) Lab	2		WELD 140 or concurrent enrollment
WELD 230	Layout & Fabrication Lecture	1		WELD 130; one WELD 100 level lecture & lab
WELD 231	Layout and Fabrication Lab	2		WELD 230
WELD 240	Shielded Metal Arc Welding II (stick) Lecture	1		WELD 141
WELD 241	Shielded Metal Arc Welding II (stick) Lab	2		WELD 240
Total Credit	Hours Required	36-37		

Photovoltaics Certificate

COLL 100	First Year Seminar	1		
General Edi	ucation Requirements	Credits	Semester Taken	Prerequisites
MATH 103	Technical Math or higher	3		MATH 40/40L or appropriate score on placement exam
INTE 110	Industrial Electrical Principles	4		Completion of or concurrent enrollment in MATH 103
INTE 115	Electrical Print Reading	3		INTE 110
INTE 142	National Electrical Code	3		INTE 110
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
INTE 270	Instrumentation and Process Control	3		INTE 225, INTE 272
EHSS 111 EHSS 112	Introduction to Health and Safety for General Industry or Introduction to Health and Safety for Construction	1		
INTE 185	Solar/Photovoltaic Systems	3		
INTE 230	Solar/Photovoltaic Design and Installation	3		INTE 185, INTE 142, and either HVAC 109 or INTE 110, or ETEC 110.
GEOL 180	Energy and the Environment	5		
INTE 271	PLC I	4		INTE 110, INTE 175 and CSOF 100 or concurrent enrollment
Total Credi	t Hours Required	36		

INTE Programmable Logic Controller Certificate

	First Year Seminar	1		
		Credits	Semester Taken	Prerequisites
CSOF 100	Introduction to Personal Computing	1		
EHSS 111	Introduction to Health & Safety for General Industry	1		
ETEC 130	Digital Electronics	4		Completion of or concurrent enrollment in ETEC 110 or INTE 110
INTE 110	Industrial Electrical Principles	4		Completion of or concurrent enrollment in MATH 103 and INTE 115
INTE 115	Electrical Print Reading	3		INTE 110
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
INTE 225	Industrial Electrical Print Reading	3		INTE 115
INTE 271	Programmable Logic Controller I	4		INTE 110, 175 and CSOF 100 or concurrent enrollment
INTE 272	Programmable Logic Controller II	3		INTE 115 and 271
INTE 277	Programmable Logic Controller Troubleshooting	3		INTE 115 and 271
INTE 290	Programmable Logic Controller Capstone	4		INTE 277 or concurrent enrollment
MATH 103R	Technical Mathematics I w/ review	3-4		MATH 20 or appropriate placement scores
Total Credit	Hours Required	39-40		

Stationary Engineer Certificate

COLL 100	First Year Seminar	1		
Specific Program Requirements		Credits	Semester Taken	Prerequisites
EHSS 111	Introduction to Health and Safety for General Industry I	1		
HVAC 109	Electricity for HVAC/R Technicians	4		
HVAC 111	Principles of Heating, Ventilation and Air Conditioning	3		
HVAC 120	Fundamentals of Refrigeration	4		
HVAC 201	Stationary Engineering	3		HVAC 111 and 120
HVAC 221	Commercial Refrigeration	4		HVAC 109, 120, and 136
INTE 115	Electrical Print Reading	3		INTE 110
INTE 150	Fundamentals of Hydraulics	3		
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
INTE 271	Programmable Logic Controller I	4		INTE 110, 175 and CSOF 100 or concurrent enrollment
MATH 103/10	03R Technical Math w/ review or higher	4		MATH 20 or appropriate placement score
Total Credi	t Hours Required	37		

Indus. Tech. Sterile Processing and Environmental Services Certificate

COLL 100	First Year Seminar	1		
General Edu	ication Requirements	Credits	Semester Taken	Prerequisites
CSIS 100	Digital Literacy	2		
EHSS 111	Introduction to Health & Safety for General Industry	1		
INTE 102	Communication for Industry	2		
INTE 103	Environmental Services for the Health Field	4		
INTE 108	Central Services Sterilization Processes	4		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115
Total Credit	Hours Required	16		

Industrial Trades Apprenticeship Program Offered at MCC-Business & Technology

These degree completion programs grant college credit by certification for certain federally approved apprenticeship programs. An eligible apprenticeship must contain a minimum 450 clock hours of classroom instruction and a program-specific number of clock hours of on-thejob training. Thirty to forty-two hours of MCC credit leading toward an AAS in Industrial Technology will be awarded upon completion of 15 hours of MCC coursework and receipt of a certificate and/or journeyman card for the appropriate craft.

A.A.S. Industrial Technology

Industrial Mechanic64-	-66 Credits	Lineman Tech/Cable Splicer	63-65 Credits
Industrial Pipefitter/Sprinkler Fitter 65-	-67 Credits	Maintenance Electrician	63-65 Credits
Industrial Warehouse Worker 62-		Millwright	64-66 Credits
Industrial Welder 65-	-67 Credits	Sheet Metal	64-66 Credits

AAS INTE - Industrial Mechanic

COLL 100	First Year Seminar	1					
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites			
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 orappropriate placement test score			
HIST 120	United States History to 1865 or						
HIST 121	United States History Since 1865 or						
POLS 135	Introduction to Political Science or	3					
POLS 136	Introduction to American National Politics or						
POLS 137	Introduction to State and Local Politics						
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score			
Option 1:				MATH 40/40L or appropriate placement test score			
MATH 103	Technical Mathematics I or			(MATH 103), MATH 103 (MATH 104), MATH 110			
MATH 103R	Technical Mathematics I w/ review or			or appropriate placement test score (MATH 120),			
MATH 120	College Algebra or			MATH 120 or appropriate placement test score			
MATH 120R	College Algebra w/ review and	5-8		(MATH 120 of appropriate placement test score			
MATH 104	Technical Mathematics II or			(MATH 130)			
MATH 130	Trigonometry			MATH 110 or satisfactory score in Math			
Option 2:				placement test (MATH 150)			
MATH 150	Pre Calculus or higher			placement test (MATTI 150)			
	umbered 100 or higher from the following disciplines: ART,						
	, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or	3-5					
	, HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN,	3-5					
SOSC, SOCI,	SPDR						
Total General	Education Requirements	18					
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites			
BSAD 109	Principles of Supervision	3					
CSOF 100	Introduction to Personal Computers or	1-3					
CSIS 115	Introduction to Microcomputer Applications or higher	1-3					
EHSS 111	Intro to Safety & Health for General Industry	1					
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher			
INTE 151	Industrial Rigging or	3-5		_			
MATE 130	Machining for Related Occupations	3-5					
General Electi		6					
Industrial Med	hanic Apprenticeship*	29					
Total Credit	Hours Required	64-66					
*Endorally opr	*Enderally approved Industrial Machanic approprieschip program that						

^{*}Federally approved Industrial Mechanic apprenticeship program that

contains a minimum of 450 clock hours of classroom and instruction and 8000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

AAS INTE - Industrial Pipefitter/Sprinkler Fitter

COLL 100	First Year Seminar	1		
General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
Any course numbered 100 or higher from the following disciplines: ART, ANTH, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR				
Total General	Total General Education Requirements			
Specific Prod	Specific Program Requirements			Prerequisites

Specific Program Requirements		Semester Taken	Prerequisites
Principles of Supervision	3		
Introduction to Personal Computing or	1-3		
Introduction to Health and Safety for Construction	1		
Industrial Electrical Safety	1		
Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
Industrial Rigging	3		
General Electives			
Industrial Pipefitter/Sprinkler Fitter Apprenticeship*			
Total Credit Hours Required			
	Principles of Supervision Introduction to Personal Computing or Introduction to Microcomputer Applications or higher Introduction to Health and Safety for Construction Industrial Electrical Safety Employment Strategies for Technical Careers Industrial Rigging ives effitter/Sprinkler Fitter Apprenticeship*	Principles of Supervision 3 Introduction to Personal Computing or 1-3 Introduction to Microcomputer Applications or higher 1 Introduction to Health and Safety for Construction 1 Industrial Electrical Safety 1 Employment Strategies for Technical Careers 2 Industrial Rigging 3 ives 6 effitter/Sprinkler Fitter Apprenticeship* 29	Principles of Supervision Introduction to Personal Computing or Introduction to Microcomputer Applications or higher Introduction to Health and Safety for Construction Industrial Electrical Safety Employment Strategies for Technical Careers Industrial Rigging ives effitter/Sprinkler Fitter Apprenticeship* Credits Taken 1-3 1-3 1-3 1-3 1-3 1-3 1-3 1-

^{*}Federally approved Industrial Pipefitter/Sprinkler Fitter apprenticeship program that contains a minimum of 450 clock hours of classroom and instruction and 8000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

A.A.S. Indus. Warehouse Worker

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Precalculus or higher	6-8		MATH 20 or 20L or appropriate score on placement test (MATH 103R) MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 130) MATH 110 or satisfactory score on the math placement test (MATH 150)
SPAN 100 SPAN 101	Beginning Occupational Spanish <i>or</i> Elementary Spanish I	3-5		
	Education Requirements	18		
	gram Requirements			
EHSS 111	Introduction to Health and Safety for General Industry	1		
EHSS 100	Introduction to Environmental Health and Safety	3		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115
CSIS 110	Technology and Information Management	3		
CSIS 115	Introduction to Microcomputer Applications	3		
INTE 151	Industrial Rigging	3		
BSAD 109	Principles of Supervision	3		
BSAD 210	Logistics Management	3		
BSAD 211	Operations Management	3		
BSAD 212	Transportation and Operations and Management	3		
BSAD 213	Warehouse and Distribution Centers	3		
BSAD 219	Entrepreneurship	8		
Warehouse Worker Apprenticeship*				
Electives		1-3		
Total Credit	Hours Required	62-65		
*Federally approved Warehouse Worker apprenticeship program that contains a minimum of 144 clock hours of classroom and instruction and 2000 clock				

^{*}Federally approved Warehouse Worker apprenticeship program that contains a minimum of 144 clock hours of classroom and instruction and 2000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate.

AAS INTE - Industrial Welder

COLL 400	First Veer Cominer	4		
COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
Any course numbered 100 or higher from the following disciplines: ART, ANTH, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR				
Total General	Education Requirements	18		
Specific Program Requirements		Credits	Semester Taken	Prerequisites
BSAD 109	Principles of Supervision	3		
CSOF 100 CSIS 115	Introduction to Personal Computing or Introduction to Microcomputer Applications or higher	1-3		
EHSS 112	Introduction to Health and Safety for Construction	1		
INTE 107	Industrial Electrical Safety	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 151 MATE 130	Industrial Rigging <i>or</i> Machining for Related Occupations	3-5		
General Electives		6		
Industrial Welders Apprenticeship*		29		
	Hours Required	65-67		
4E 1 11				

^{*}Federally approved Industrial Welder apprenticeship program that

contains a minimum of 450 clock hours of classroom and instruction and 8000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

AAS INTE - Lineman Technician/Cable Splicer

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United Stated History to 1865 <i>or</i> United States History Since 1865 <i>or</i> Introduction to Political Science <i>or</i> Introduction to American National Politics <i>or</i> Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
MATH 103 MATH 103R MATH 104 MATH 120 MATH 130 MATH 150	Technical Mathematics I or Technical Mathematics I w/ review and Technical Mathematics II or College Algebra and Trigonometry or PreCalculus	5-7		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130)
SPAN 100	Beginning Occupational Spanish	3		
Total General	Education Requirements	18		
	gram Requirements	Credits	Semester Taken	Prerequisites
LINE 106	Safety and Accident Prevention	3		
INTE 110	Industrial Electrical Principles	4		MATH 103
INTE 120	INTE Internship I	3		
INTE 124	Employment Strategies for Technical Careers	2		CSOS 100 or CSIS 115 or higher
INTE 220	INTE Internship II	3		
Technician/Cable Splicer Apprenticeship*		30 63-65		
	Total Credit Hours Required			um of 4F0 clock bours of closers and instruction

^{*}Federally approved Lineman Technician/Cable Splicer apprenticeship program that contains a minimum of 450 clock hours of classroom and instruction and 8000 clockhours of on-the-job training.

Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Ind. Main. Electrician Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or or ENGL 90 orappropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120R MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Pre-Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON	umbered 100 or higher from the following disciplines: ART, , ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or , HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SPDR	3-5		
Total Genera	Education Requirements	18		

Specific Program Requirements				
EHSS 100	Introduction to Environmental, Health & Safety	3		
CSOF 100	Introduction to Personal computers or	1-3		
CSIS 115	Introduction to Microcomputer Applications or higher	1-3		
INTE 124	Employment Strategies for Technical Careers	2	CSOF 100 or CSIS 115 or higher	
INTE 225	Industrial Electrical Print Reading	3		
INTE 272	Programmable Logic Controller II or	2	INTE 115 AND INTE 271	
INTE 277	Programmable Logic Controller Troubleshooting	3	INTETISAND INTEZE	
INTE 276	Electrical Troubleshooting	3	INTE 275	
Industrial Maintenance Electrician Apprenticeship*				
Total Credit Hours Required 63-65				
+F1				

^{*}Federally approved Industrial Maintenance Electrician apprenticeship program that contains a minimum of 450 clock hours of classroom and instruction and 8000 clockhours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Industrial Trades Apprenticeship Program

AAS INTE – Millwright

COLL 100	First Year Seminar	1			
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites	
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score	
HIST 120	United States History to 1865 or				
HIST 121	United States History Since 1865 or				
POLS 135	Introduction to Political Science or	3			
POLS 136	Introduction to American National Politics or				
POLS 137	Introduction to State and Local Politics				
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score	
Option 1: MATH 103 MATH 103R MATH 120R MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)	
ANTH, ECON GIS Courses) SOSC, SOCI,		3-5			
Total Genera	I Education Requirements	18			

Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 109	Principles of Supervision	3		
CSOF 100	Introduction to Personal Computing or	1-3		
CSIS 115	Introduction to Microcomputer Applications or higher	1-3		
EHSS 111	Introduction to Health and Safety for General Industry	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115
INTE 151	Industrial Rigging	3		
General Elect	ives	6		
Millwright Apprenticeship*		29		
Total Credit	Hours Required	64-66		

^{*}Federally approved Millwright apprenticeship program that contains a minimum of 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Industrial Trades Apprenticeship Program

Sheet Metal Apprenticeship Degree Completion Program

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or ENGL 90 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1: MATH 103 MATH 103R MATH 120 MATH 120R MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or College Algebra w/ review and Technical Mathematics II or Trigonometry Calculus or higher	5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score in Math placement test (MATH 150)
ANTH, ECON GIS Courses) SOSC, SOCI,		3-5 18		
Total General	Education Requirements	Ιď		

Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BSAD 109	Principles of Supervision	3		
CSOF 100	Introduction to Personal Computer or	1-3		
CSIS 115	Introduction to Microcomputer Applications or higher	1-3		
EHSS 111	Introduction to Health and Safety for General Industry	1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
INTE 151	Industrial Rigging	3		
General Elect	tives	6		
Sheet Metal A	Apprenticeship (Credit by Certification*)	29		
Total Credit Hours		64-66		

^{*} Federally approved sheet metal apprenticeship program that contains a minimum 450 clock hours of classroom instruction and 6000 clock hours of on-the-job training. Transcripted upon completion of 15 hours of MCC coursework and documentation of certificate and/or journeyman card for the appropriate craft.

Arts & Communication

Interior Design

Offered at Johnson County Community College Coordinated at MCC

A.A.S. Interior Design	68	Credits
A.A.S. Interior Entrepreneurship	68	Credits
A.A.S. Merchandising	68	Credits
· ·		
Interior Design Advanced Certificate	21	Credits
Interior Design Retail Sales/Manufacturers		
Representative Certificate	30	Credits

This program leads to an Associate in Applied Science degree. Associates degrees are offered in interior design, interior merchandising and interior entrepreneurship. Certificates are offered in interior products sales representative and interior design retail sales/manufacturers representative. Students must be accepted into the program by both MCC and JCCC. The student is awarded the degree or certificate from JCCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Interior Design

	gram Requirements n at one of the MCC campuses	Credits	Semester Taken	Prerequisites
ART 150	History of Art I	3	Taken	
BSAD 221	Business Communications	3		
ECON 110 ECON 210	Introduction to Economics <i>or</i> Macroeconomics	3		MATH 40/40L or appropriate placement test score (ECON 210)
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
MATH 100	Mathematics for Business	3		MATH 20/20L or appropriate placement test score
Elective:	Physical Education or Health (see below)	1		See Courses section of this catalog for individual course prerequisites.
	gram Requirements			
Must be take	n at Johnson County Community College			
DRAF 164	Architectural Drafting for Interior Design	3		
DRAF 264	CAD:Interior Design*	3		
ITMD 121	Interior Design	3		
ITMD 123	Space Planning*	3		
ITMD 125	Interior Textiles	3		
ITMD 129	Design Presentation*	3		
ITMD 132	Materials and Resources	3		
ITMD 133	Furniture & Ornamentation/Antiquity to Renaissance	3		
ITMD 140	Window Treatments*	1		
ITMD 145	Upholstered Furniture*	1		
ITMD 148	History of Asian Furniture and Design*	2		
ITMD 149	Casegoods*	1		
ITMD 150	Asian Rugs and Carpets	1		
ITMD 180	Leadership in Design	1		
ITMD 213	Lighting Design & Planning*	3		
ITMD 221	Residential Design*	3		
ITMD 231	Furniture and Ornamentation/Renaissance to 20th Century	3		
ITMD 239	Capstone: Interior Design*	2		
ITMD 271	Budget & Estimating*	3		
ITMD 273	Interiors Seminar: Practices and Procedures*	2		
ITMD 282	Interiors Internship I*	1		
ITMD 284	Interiors Internship II*	1		
MKT 134	Professional Selling	3		
Total Credit	Hours Required	68		

$\label{lem:lemma$

DANC 100, DANC 111, DANC 121, DANC 122, EMS 100, PHED 105, PHED 106, PHED 107, PHED108, PHED 109, PHED 110, PHED 113, PHED 114, PHED 117, PHED 118, PHED 119, PHED 120, PHED 121, PHED 122, PHED 123, PHED 126, PHED 127, PHED 128, PHED 129, PHED 130, PHED 131, PHED 135, PHED 136, PHED 137, PHED 141, PHED 142, PHED 143, PHED 144, PHED 145, PHED 146, PHED 147, PHED 151, PHED 157, PHED 158, PHED 159, PHED 166, PHED 166, PHED 167, PHED 168, PHED 173, PHED 174, PHED 178, PHED 179, PHED 180

A.A.S. Interior Entrepreneurship

Specific Prog	gram Requirements	Credits	Semester	Proroquisitos
Must be take	n at one of the MCC campuses	Credits	Taken	Prerequisites
ART 150	History of Art I	3		
BSAD 221	Business Communications	3		Satisfactory ASSET score or completion of ENGL 30
ECON 110	Introduction to Economics or	3		MATH 40/40L or appropriate placement test score
ECON 210	Macroeconomics	3		(ECON 210)
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
MATH 100	Mathematics for Business or higher	3		MATH 20/20L or appropriate placement test score
Elective:	Physical Education or Health (see below)	1		See Courses section of this catalog for individual
	keting/Entreprenuership Electives at MCC or JCCC**	9		course prerequisites.
Specific Prog	gram Requirements			
Must be take	n at Johnson County Community College			
DRAF 164	Architectural Drafting for Interior Design	3		
ITMD 121	Interior Design	3		
ITMD 123	Space Planning*	3		
ITMD 125	Interior Textiles	3		
ITMD 132	Materials and Resources	3		
ITMD 133	Furniture and Ornamentation/Antiquity to Renaissance	3		
ITMD 180	Leadership in Design	1		
ITMD 231	Furniture and Ornamentation/Renaissance to 20th Century	3		
ITMD 237	Capstone: Merchandising and Entrepreneurship*	2		
ITMD 271	Budgeting & Estimating*	3		
ITMD 273	Seminar: Business Practices and Procedures*	2		
ITMD 282	Interiors Internship I*	1		
ITMD 284	Interiors Internship II*	1		
MKT 134	Professional Selling	3		
ITMD	Electives*	9		
Total Credit	Hours Required	68		

BSAD 101 BSAD 219 BSAD 205 *Recommend ENTR 131 ENTR 142 ENTR 160 ENTR 180 MKT 121	ed Business/Entrepreneurship/Marketing Electives at MCC: Accounting Principles I Entrepreneurship Marketing Marketing d Business/Entrepreneurship/Marketing Electives at JCCC: Financial Management for Small Business FastTrack Business Plan Legal Issues for Small Business ITMD 150 Asian Rugs and Carpets Legal Issues for Small Business ITMD 175 Advanced Floral Design* Lighting Design and Planning* ITMD 213 Interior Electives at JCCC: ITMD 250 20th Century Designers
ITMD 127 ITMD 140 ITMD 143 ITMD 145 ITMD 147 ITMD 148	Elements of Floral Design Window Treatments* Accessory Fundamentals* Upholstered Furniture* Lighting Basics* History of Asian Furniture and Design
ITMD 149	Casegoods*
	al Education and Recreation Elective must be one of the following: DANC 100, 111, 121, 122, EMS 100, HUSC 108, PHED 105, 106,
1 ' '	110, 113, 114, 117, 118, 119, 120, 121, 122, 123, 126, 127, 128, 129, 130, 131, 135, 136, 137, 141, 142, 143, 144, 145, 146, 147, 157, 165, 166, 167, 168, 173, 174, 178, 179

^{*}Prerequisite/corequisite required

A.A.S. Interior Merchandising

Specific Program Requirements	Credits	Semester	Prerequisites
Must be taken at one of the MCC campuses		Taken	Trorogalottoo
ART 150 History of Art I	3		
BSAD 221 Business Communications	3		
ECON 110 Introduction to Economics or	3		MATH 40/40L or appropriate placement test score
ECON 210 Macroeconomics			(ECON 210)
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
MATH 100 Mathematics for Business	3		MATH 20/20L or appropriate placement test score
Elective: Physical Education or Health	1		See Courses section of this catalog for individual
Business/Marketing Electives at MCC or JCCC**	6		course prerequisites.
Specific Program Requirements			
Must be taken at Johnson County Community College			
DRAF 164 Architectural Drafting/Residential Interior Design	3		
ITMD 123 Space Planning*	3		
FASH 125 Visual Merchandising	3		
FASH 135 Image Management <i>or</i>	1		
ITMD 180 Leadership Design	•		
ITMD 121 Interior Design	3		
ITMD 125 Interior Textiles*	3		
ITMD 132 Materials and Resources	3		
ITMD 133 Furniture and Ornamentation/Antiquity to Renaissance	3		
ITMD 231 Furniture and Ornamentation/Renaissance to 20th Century	3		
ITMD 237 Capstone: Merchandising & Entrepreneurship*	2		
IMTD 271 Budgeting & Estimating*	3		
ITMD 273 Interiors Seminar: Business Practices & Procedures*	2		
ITMD 282 Interiors Internship I*	1		
ITMD 284 Interiors Internship II*	1		
MKT 134 Professional Selling	3		
ITMD Electives*	9		
Total Credit Hours Required	68		

*Prerequisite/corequisite required *Recommended Interior Electives at JCCC:

ITMD 127 Elements of Floral Design ITMD 140 Window Treatments* **ITMD 143** Accessory Fundamentals* **ITMD 145** Upholstered Furniture*

Lighting Basics* **ITMD 147**

History of Asian Furniture and Design **ITMD 148**

Casegoods* **ITMD 149**

Asian Rugs and Carpets Advanced Floral Design* **ITMD 150 ITMD 175**

ITMD 213 Lighting Design and Planning*

ITMD 225 Interior Textiles II*

ITMD 250 20th Century Designers

ITMD 295 Field Study: Design and Merchandising*
ITMD 296 Interior Design: The Orient (travel for credit)
*Recommended Business/Marketing Electives at JCCC:

BUS 145 Small Business Management

MKT 121 MKT 221 Retail Management

MKT 221 Sales Management ***Recommended Business/Marketing Electives at MCC:

BSAD 205 Marketing Health, Physical Education & Recreation Electives that will transfer from MCC to JCCC:

DANC 100, DANC 111, DANC 121, DANC 122, EMS 100, PHED 105, PHED 106, PHED 107, PHED 108, PHED 109, PHED 110, PHED 113, PHED 114, PHED 117, PHED 118, PHED 119, PHED 120, PHED 121, PHED 122, PHED 123, PHED 126, PHED 127, PHED 128, PHED 129, PHED 130, PHED 131, PHED 135, PHED 136, PHED 137, PHED 141, PHED 142, PHED 143, PHED 144, PHED 145, PHED 146, PHED 147, PHED 151, PHED 157, PHÉD 158, PHÉD 159, PHÉD 165, PHÉD 166, PHÉD 167, PHÉD 168, PHÉD 173, PHÉD 174, PHÉD 178, PHÉD 179, PHÉD 180

Interior Design Advanced Certificate

This certificate is designed for students who wish to be certified or registered interior designers. Students must have completed the Interior Design AAS degree.

Specific Program Requirements	Cradita	Semester	Dreve suicites
Must be taken at one of the MCC campuses	Credits	Taken	Prerequisites
ART 103 Design Foundations or			
ART 151 Art History II or	3		
Art/Art History Electives			
Specific Program Requirement			
Must be taken at Johnson County Community College			
DRAF 230 Intermediate CAD: AutoCAD* or	3		
ART 129 Design Color	3		
ITMD 225 Interior Textiles II*	3		
ITMD 223 Commercial Design*	3		
ITMD 219 Issues in Interior Design*	3		
ITMD 234 Kitchen and Bath: Planning and Design*	3		
Interior Design Electives	3		
Interior Design Electives			
Must be taken at Johnson County Community College			
Choose 3 credit hours from the following list			
ITMD 127 Elements of Floral Design	1		
ITMD 143 Accessory Fundamentals*	1		
ITMD 175 Advanced Floral Design*	1		
ITMD 250 20th Century Designers	1		
ITMD 295 Field Study: Design and Merchandising*	3		
ITMD 296 Interior Design: The Orient	3		
Total Credit Hours Required	21		

^{*}Prerequisites/corequisites required

Interior Design Retail Sales/Manufacturers Representative Certificate

	gram Requirements on at one of the MCC campuses	Credits	Semester Taken	Prerequisites
MATH 100	Mathematics for Business or higher	3		MATH 20/20L or appropriate placement test score
Specific Pro	gram Requirement			
Must be take	n at Johnson County Community College			
FASH 125	Visual Merchandising	3		
FASH 135	Image Management	1		
ITMD 121	Interior Design I	3		
ITMD 125	Interior Textiles	3		
ITMD 132	Materials and Resources	3		
ITMD 271	Budgeting and Estimating*	3		
ITMD 282	Interiors Internship I	1		
ITMD 284	Interiors Internship II	1		
MKT 121	Retail Management	3		
MKT 134	Professional Selling	3		
ITMD:	Electives*	3		
Total Credit	Hours Required	30		

*Prerequisite/corequisite

*Recommended Electives:

Elements of Floral Design ITMD 127: ITMD 140: Window Treatments ITMD 143: Accessory Fundamentals* ITMD 145: Upholstered Furniture* ITMD 147: Lighting Design and Planning* ITMD 149: Casegoods*

ITMD 213: Lighting Design and Planning* ITMD 225: Interior Textiles II*

ITMD 231: Furniture and Ornamentation: Renaissance-20th Century

ITMD 273: Seminar: Practices and Procedures*

Interior Design & Merchandising Entrepreneurship Certificate

Specific Rec	uirements n at one of the MCC campuses	Credits	Semester Taken	Prerequisites	
BSAD 219	Entrepreneurship	3	iakeii		
MATH 100	Mathematics for Business	3		MATH 20/20L or appropriate placement test score	
	gram Requirement	3		MATTI 20/20L of appropriate placement test score	
	n at Johnson County Community College				
DRAF 164	Architectural Drafting/Residential Interior Design	3			
ITMD 121	Interior Design	3			
ITMD 121	Interior Textiles	3			
ITMD 132	Materials and Resources	3			
ENTR 180	Opportunity Analysis	2			
ITMD 123	Space Planning*	3			
ITMD 271	Budgeting and Estimating*	3			
ITMD 273	Interiors Seminar: Practices and Procedures*	2			
ITMD 282	Interiors Internship I*	1			
ENTR 160	Legal Issues for Small Business	2			
ENTR 142	Fast Trac Business Plan	3			
Choose 3 of	the 5 one-credit hour courses				
Must be taken	at Johnson County Community College				
ITMD 127	Elements of Floral Design	1			
ITMD 175	Advanced Floral Design*	1			
ITMD 140	Window Treatments*	1			
ITMD 145	Upholstered Furniture*	1			
ITMD 147	Lighting Basics*	1			
	Hours Required	30			
	ecommended ENTR Coursework:				
Students may also want to select additional ENTR courses to complement their certificate study- not included in Program Requirements.					
	at Johnson County Community College				
ENTR 195	Franchising*	3			
ENTR 220	Entrepreneurial Marketing*	2			
ENTR 131	Financial Management for Small Business*	2			

Industrial & Engineering Technology

Land Surveying & Geomatics

Offered at MCC-Longview

A.A.S. Land Surveying & Geomatics..... 65-66 Credits Land Surveying Certificate 18-19 Credits

This program leads to an Associate in Applied Science degree or certificate prepares an individual to take the state-licensing exam to become a Land Surveyor in training in the state of Missouri.

A.A.S. Land Surveying & Geomatics

COLL 100	First Year Seminar or	1		
ENGR 101	Introduction to the Profession (preferred)			
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102	Composition and Reading II or	3		ENGL 101
ENGL 215	Technical Writing	3		LNOL 101
HIST 120	United States History to 1865			
HIST 121	United States History Since 1865			ECON 210 (MATH 40/40L or appropriate
POLS 135	Introduction to Political Science	3		placement score)
POLS 136	Introduction to American National Politics			placement edere)
POLS 137	Introduction to State and Local Politics			
MATH 120	College Algebra and			MATH 110 or appropriate placement test score
MATH 130	Trigonometry	5-6		(MATH 120, 130 and 150)
NAATU 450	or December			
MATH 150	Precalculus			MATH 440
MATH 115	Statistics	3		MATH 110 or appropriate placement test score
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication			., .
	gram Requirements			
CSIS 110	Technology and Information Management or	3		
ENGR 113	Engineering Design Microcomputer Applications			MATH 40/401
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L
ETEC 265	Intro to Civil Design	3		ETEC 152
GEOG 120	Introduction to Geographic Information Systems	3		0500.400
GEOG 220	GIS Database and Design	3		GEOG 120
GEOG 224	Applications in Geographic Info Systems	3		GEOG 120, GEOG 220
GEOG 228	Administrative Issues in GIS	3		GEOG 120
SRVY 135	Elementary Surveying	3		MATH 130 or MATH 150
SRVY 235	Advanced Surveying	3		SRVY 135
SRVY 236	Boundary Control and Legal Principles	3		SRVY 135
SRVY 237	Evidence and Procedures for Boundary Location	3		SRVY 135
SRVY 244	Fundamentals of GPS Surveying	3		SRVY 135
	from the following list:			
BSAD 101	Accounting and Principles I			MATH 40/43 or appropriate score or placement
BSAD 204	Business Management	6		test (CSIS 123)
BSAD 219	Entrepreneurship			
CSIS 123	Programming Fundamentals			CSIS 110 or 115 (CSIS 143)
CSIS 143	Database Design and Managment			
Total Credit	: Hours Required	65-66		

Land Surveying Certificate

ENGR 101 COLL 100	Intro to the Profession (preferred) or First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
MATH 120	College Algebra and			
MATH 130	Trigonometry or	5-6		MATH 110 or appropriate placement test score (MATH 120, 130 and 150)
MATH 150	Precalculus			(WATT 120, 100 and 100)
SRVY 135	Elementary Surveying	3		MATH 130 or MATH 150
SRVY 235	Advanced Surveying	3		SRVY 135
SRVY 236	Boundary Control and Legal Principles	3		SRVY 135
SRVY 237	Evidence and Procedures for Boundary Location	3		SRVY 135
Total Credit	Total Credit Hours Required			
This certificate prepares an individual to take the state-licensing exam to become a Land Surveyor in Training with the state of Missouri.				

Industrial & Engineering Technology

Lineman

Offered at MCC-Business & Technology

A.A.S. Lineman	65-67	Credits
Lineman Certificate	51-53	Credits

Electric utility line technicians install and repair poles, conductors, cables and equipment used in electrical power and distribution systems. The certificate program is intended to prepare individuals for employment at any electric utility offering an apprenticeship in the United States. Applicants with formal training typically have higher starting salaries and greater opportunity for advancement within the industry. Applicants must apply to the program.

A.A.S. Lineman

COLL 100	First Year Seminar	1		
	cation Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPAN 100	Beginning Occupational Spanish	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Option 1:				MATH 40/40L or appropriate placement test score
MATH 103	Technical Mathematics I or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 103R	Technical Mathematics I w/ review or			or appropriate placement test score (MATH 120),
MATH 120	College Algebra or			MATH 120 or appropriate placement test score
MATH 120R	College Algebra w/ review and	5-7		(MATH 130)
MATH 104	Technical Mathematics II or			(111 100)
MATH 130	Trigonometry			MATH 110 or satisfactory score in Math
Option 2:				placement test (MATH 150)
MATH 150	Pre-Calculus or higher			pracoment test (iiii iiii iio)
	gram Requirements			
CSIS 115	Introduction to Microcomputer Applications	3		
LINE 104	Pole Climbing Skills	5		
LINE 105	Electrical Distribution Systems	3		INTE 110
LINE 106	Safety and Accident Prevention	3		
INTE 110	Industrial Electrical Principles	4		Completion of or current enrollment in MATH 103
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
GEOL 180	Energy and the Environment	5		
LINE 210	Pole Framing and Construction Specifications	3		LINE 104 & 106
LINE 215	Setting and Replacing Poles	3		LINE 104 & 106
LINE 237	Transformer Theory and Installation	3		LINE 106, INTE 110 and LINE 210
LINE 241	Conductor Installation and Metering	3		LINE 237
LINE 250	Fusing, Substations, & Voltage Regulation	3		LINE 241
LINE 251	Installation and Troubleshooting Underground	3		LINE 250
	Distribution Systems	٥		LIINL ZUU
LINE 252	Advanced Pole Climbing	3		LINE 104 and 106
Total Credit	Hours Required	65-67		

^{*}minimum requirements

Lineman

Lineman Certificate

COLL 100	First Year Seminar	1		
	gram Requirements	Credits	Semester Taken	Prerequisites
CSIS 115	Introduction to Microcomputer Applications	3		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate
LINE 104	Pole Climbing Skills	5		
LINE 105	Electrical Distribution Systems	3		INTE 110
LINE 106	Safety and Accident Prevention	3		
INTE 110	Industrial Electrical Principles	4		Completion of or concurrent enrollment in MATH 103/103R or higher
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115 or higher
LINE 210	Pole Framing and Construction Specifications	3		LINE 104 and 106
LINE 215	Setting and Replacing Poles	3		LINE 104 and 106
LINE 237	Transformer Theory and Installation	3		LINE 106, INTE 110 and LINE 210
LINE 241	Conductor Installation and Metering	3		LINE 237
LINE 250	Fusing, Substations, & Voltage Regulation	3		LINE 241
LINE 251 Distribution Sy	Installation and Troubleshooting Underground	3		LINE 250
LINE 252	Advanced Pole Climbing	3		LINE 104 and 106
Option 1:	7.avanoca i ole olimbing			
MATH 103	Technical Mathematics I or			MATH 40/40L or appropriate placement test score
MATH 103R	Technical Mathematics I w/ review or			(MATH 103), MATH 103 (MATH 104), MATH 110
MATH 120	College Algebra or			or appropriate placement test score (MATH 120),
MATH 120R	College Algebra w/ review and	5-7		MATH 120 or appropriate placement test score
MATH 104	Technical Mathematics II or			(MATH 130)
MATH 130	Trigonometry			MATILIAN or acticfactory score in Math
Option 2:				MATH 110 or satisfactory score in Math
MATH 150	Pre-Calculus or higher			placement test (MATH 150)
Total Credit	Hours Required	51-53		

LPN-ADN Bridge Program

Offered at MCC-Penn Valley

LPN-ADN Bridge Program 75-81 Credits

The LPN-ADN Bridge program allows licensed practical nurses to complete the requirements for an Associate in Applied Science in Nursing degree.

Licensed Practical Nurses receive credit for knowledge and skills mastered in their practical nursing programs and work related experience following demonstration of competency through the LPN entrance exam (ATI exam).

Admission to the program

Every student in the nursing program should be aware that the Missouri State Board of Nursing may refuse to issue a license to any person who has been found guilty of violating federal or state laws and for any of the 15 causes listed in Section 335.066 of the Missouri Revised Statues 1986. Copies of this law are available from the Missouri State Board of Nursing. For more information, go to www.mcckc.edu/bridge

Accreditation

- The nursing program is fully approved by the Missouri State Board of Nursing and is accredited by The National League of Nursing Accrediting Commission.
 The Missouri State Board of Nursing can be contacted at 3605 Missouri Boulevard, P.O. Box 656, Jefferson City, MO 65102-0656; telephone (573) 751-0681
 The National League for Nursing Accrediting Commission can be contacted at 3343 Peachtree Road, N.E. #500. Atlanta, GA. 30326; telephone (404) 975-5000; fax (404) 975-5020.

LPN-ADN Bridge Program

This program allows licensed practical nurses to complete the requirements for an Associate in Applied Science in Nursing degree.

COLL 100	First Year Seminar	1		
Prerequisite		•		
BIOL 100	Introduction to Cell Biology or			
CHEM 105	Introductory Chemistry for Health Sciences	3-5		MATH 20/20L or appropriate placement test score
BIOL 109	Antomy and Physiology			
DIOL 103	or			BIOL 100 or CHEM 105 (BIOL 109)
BIOL 110	Human Anatomy and	6-10		BIOL 100 or CHEM 105 and BIOL 110 (BIOL 110)
BIOL 210	Human Physiology			& 210)
PSYC 140	General Psychology	3		·
PSTC 140	General Psychology	ა		DIOL 100 as CHEM 105 as bis bas silve as a of the fall
BIOL 208	Microbiology	5		BIOL 100 or CHEM 105 or higher, plus one of the fol-
501/0.010	0,			lowing courses: BIOL 101, 104, 106, 108, 109 or 110
PSYC 243	Human Lifespan Development	4	_	PSYC 140
Ceneral Edu	cation Requirements	Credits	Semester	Prereguisites
General Luc	Cation Nequilements	Ciedits	Taken	i rerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
The student m	ust complete one of the following courses:			
HIST 120	United States History to 1865 or			
HIST 121	United States History since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or	3		
POLS 137	Introduction to State and Local Politics			
	sferring one of these courses from out of state will be required			
	OLS 153 The Missouri Constitution.			
SOCI 160	Sociology	3		
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 102	Fundamentals of Human Communication	-		
	gram Requirements			
	cessful completion of HESI LPN entrance exam credit will be	19		
given for RNU	R 126, 131, 134, 138 and 141	13		
RNUR 115	Professional Transition	4		Completion of all prerequisites; admission to
KNOK 113	1 Totessional Transition	7		Nursing program
				ENGL 101, SOCI 160, RNUR 234, 238, SPDR
RNUR 230	Leadership/Management/Trends	2		100 or 102, HIST 120/121, or POLS 135/136/137.
1111011 250	Leadership/Management/Trends	_		Constitutional requirement may be taken
				concurrently.
RNUR 234	Child Centered Nursing	4		BIOL 208, RNUR 134, 138, 141, or taken
	Conto. Ca Haronig			concurrently: ENGL 101, SOCI 160.
RNUR 238	Adult Nursing II	5		BIOL 208, RNUR 134, 138, 141 OR taken
		ŭ		concurrently: ENGL 101, SOCI 160.
		_		ENGL 101, SOCI 160, RNUR 234, RNUR 238, or
RNUR 244	Adult Nursing III	7		taken concurrently: SPDR 100 & HIST 120/121 or
				POLS 135/136/137 or SOSC 151
Total Credit	Hours Required	75-81		

Major Appliance Technology

Offered at Kansas City Kansas Community College

Major Appliance Technology Certificate			
Essential Courses	Credits	Semester	Prerequisites
Must be taken at one of the MCC campuses	Cieulis	Taken	Frerequisites
EHSS 111 Introduction to Health and Safety for General Industry *	1		EQV: MAPRO 100
INTE 124 Employment Strategies for Technical Careers	2		EQV: MAPRO 160
*This course must be taken first			
Essential Courses			
Must be taken at Kansas City Kansas Community College			
MAPRO 103 Tools of the Trade	1		
MAPRO 108 Basic Electricity	3		
MAPRO 112 Fundamentals of Refrigeration	2		
MAPRO 115 Parts Research and Ordering Systems	1		
MAPRO 120 Principles of Combustion	2		
MAPRO 135 Oxy/Acetylene Safety/Usage	2		
MAPRO 140 Brazing/Swaging/Silver and Soft Soldering	3		
MAPRO 205 Gas and Electric Wall Ovens- Domestic/Professional	3		
MAPRO 210 Gas and Electric Ranges/Cook Tops	3		
Domestic/Professional/Commercial	_		
MAPRO 220 Dishwashers – Domestic/Professional/Commercial	3		
MAPRO 222 Advanced Refrigeration	2		
MAPRO 230 Refrigerators/Freezers Domestic/Commercial	3		
MAPRO 233 Ice Makers-Domestic/Clear Ice/Commercial Ice Makers	3		
MAPRO 235 Commercial Walk-in/Reach-in Freezers/Coolers	3		
MAPRO 243 Microwave Ovens-Domestic/Commercial	3		
MAPRO 245 Top and Front Load Clothes Washers–Domestic/Commercial	3		
MAPRO 247 Gas and Electric Clothes Dryers/Stack Laundry-	3		
Domestic/Commercial			
Electives			
Choose 6 credit hours to complete program			
MAPRO 215 Ventilation Hoods/Make-Up Air Blowers –	3		
Domestic/Commercial	-		
MAPRO 240 Steam Ovens/Proffers/Deep Fryers –Domestic/Commercial	3		
MAPRO 284 Special Projects	3		
MAPRO 290 Internship	3		
MAPRO 291 Internship II	3		
Total Credit Hours Required	52		

Mortuary Science

Offered at Kansas City Kansas Community College Coordinated at MCC

A.A.S. Mortuary Science 78-79 Credits

This program leads to an Associate in Applied Science degree that seeks to prepare students to function as practitioners in the field of funeral service. Students must be accepted into the program by both MCC and KCKCC.

The student is awarded the degree from KCKCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Mortuary Science

	gram Requirements	Credits	Semester	Prerequisites
Must be take	n at one of the MCC campuses	Credits	Taken	i rerequisites
BIOL 101	General Biology	5		
BIOL 110	Human Anatomy	5		
BIOL 208	Microbiology	5		BIOL 100 or CHEM 105 or higher, plus one of the following courses: BIOL 101, 104, 106, 108, 109, or 110.
BSAD 101	Accounting Principles I	3		
CSIS 115	Intro. to Microcomputer Applications	3		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102	Composition and Reading II	3		ENGL 101
MATH 100	Mathematics for Business	3		
BSAD 204	Business Management	3		
PSYC 140	General Psychology	3		
PSYC 230	Death and Dying	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
PHIL 100	Intro to Philosophy or	3		
PHIL 203	Ethics	3		
Specific Pro	gram Requirements			
Must be take	n at Kansas City Kansas Community College			
HUDV 100/10	1Strategies for Academic Excellence/Lifelong Learning	1-2		
MTSC 101	Orientation to Funeral Service	2		
MTSC 105	Mortuary Law	3		
MTSC 108	Mortuary Chemistry	3		
MTSC 110	Restorative Art	4		
MTSC 201	Pathology	3		
MTSC 205	Embalming Theory	4		
MTSC 210	Mortuary Management	3		
MTSC 212	Funeral Service Merchandising	3		
MTSC 225	Funeral Service Counseling	3		
MTSC 240	Mortuary Science Practicum I	3]
MTSC 241	Mortuary Science Practicum II	3		
Total Credit	Hours Required	78-79		

^{*} A minimum cumulative grade point average of 2.5. This includes all undergraduate college courses taken.

^{*} Human Anatomy and Accounting must have been taken within the last 4 years to transfer to KCKCC.

^{*} All General Education requirements (37 hours) must be completed with a "C" grade or better prior to acceptance into the program.

Music Technology

Offered at Kansas City Kansas Community College Coordinated at MCC

A.A.S. Music Technology......61-64 Credits

This program leads to a program of Associate in General Studies with an emphasis in Music Technology. The degree is for students wishing to pursue employment in a technology-related aspect of the music business.

Students must be accepted into the program by both MCC and KCKCC. The student is awarded the degree from KCKCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Music Technology

Specific Program Requirements	Credits	Semester	Prerequisites
Must be taken at one of the MCC campuses		Taken	·
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102 Composition and Reading II or	3		
ENGL 215 Technical Writing			
PSYC 140 General Psychology or	3		
SOCI 160 Sociology			
SPDR 100 Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 103 Interpersonal Communication	_		'''''
MATH 120 College Algebra or higher	3		MATH 110 or appropriate placement test score
MUSI 108 Music Appreciation	3		
Specific Program Requirements			
Can be taken at KCKCC or MCC			
Humanities Core	3		
MUSC 111 Music Theory I (MUSI 110 at MCC)	4		
MUSC 112 Music Theory II (MUSI 111 at MCC)	4		
MUSC 213 Music Theory III (MUSI 210 at MCC)	4		
MUSC 214 Music Theory IV (MUSI 211 at MCC)	4		
Performance Groups (4 semesters)	4		
Piano Class/Applied Piano (4 semesters) or			
Voice Class/Applied Voice (4 semsters) or	4		
Other Applied Lessons (4 semesters)			
NASC 130 Introductory Physics at KCKCC or	3-5		
PHYS 101 Introductory Physics at MCC	3-5		
HUDV 100/101Strategies for Academic Excellence/Lifelong Learning*	1-2		
Music Tecchnology Requirements			
Must be taken at KCKCC			
AUDIO 110 Music Technology I	3		
AUDIO 210 Music Technology II	3		
AUDIO 230 Multimedia Production	3		
AUDIO 240 Sound Editing and Synthesis	3		
			See KCKCC course descriptions in the Courses
AUDIO 250 Audio and Recording Techniques	3		section of this catalog for individual course prerequisites.
Total Credit Hours Required	61-64		
* MUST be taken at KCKCC			

Nursing

Do you like helping other people and working in a fast-paced, challenging environment? There is growing demand for trained nursing professionals and Metropolitan Community College has the programs you need to get started on your pathway to a nursing career. There are several ways to enter this path at MCC: Certified Nursing Assistant (CNA), Licensed Practical Nurse (LPN), and Registered Nurse (RN). Students who want to continue their education can go on to a Bachelor's of Science in Nursing (BSN) and beyond. You can start at any level, or start at CNA and move up while you work.

Certified Nursing Assistant (CNA)

Education Requirements: The MCC program is 175 hours, which includes 100 hours of clinical training.

What Does a CNA Do? Certified Nursing Assistants assist the healthcare team in direct patient care duties such as monitoring vital signs, obtaining heights and weights, and monitoring intake and output. You may also choose to continue your education by becoming a Certified Medical Technician (CMT), or by entering one of the other nursing or allied health programs.

How Do I Get Started? You must be at least 18 years of age, with a valid social security number, and a government issued, valid photo ID. For further information see http://mcckc.edu/classes/continuinged/healthcare/cna_cmt.asp

Licensed Practical Nurse (LPN)

Education Requirements: Twelve months of training in such areas as anatomy, physiology, pharmacology and direct patient care. LPNs must pass a national board exam and maintain a professional license.

What Does an LPN Do? Licensed practical nurses are allowed to perform simple medical procedures under the direct supervision of either a doctor or a registered nurse. Common tasks include administering medications, (LPNs can do IV medications if IV certified); dressing wounds; measuring blood pressure, heart rate and temperature; collecting samples; and maintaining patient records. An LPN may also choose to continue on and become a Registered Nurse through MCC's LPN to ADN Bridge Program.

How Do I Get Started? For further information please see the Practical Nursing page of this catalog.

Registered Nurse (RN)

Education Requirements: There are several educational routes that can be taken in pursuit of an RN qualification. The most common is a 2-year program that culminates with earning an Associate's Degree in Nursing (ADN). Other options include a hospital diploma program that involves a 3-year course of study, or earning a 4-year BSN degree (see below). If you are already an LPN, please see the LPN-ADN Bridge Program page of this catalog for more information.

What Does an RN Do? A registered nurse supervises the work of an LPN and is responsible for the overall safety and care of patients. RN's also have a wide array of nursing career options available and may work for insurance companies, attorneys, schools, surgical centers and even as independent medical consultants.

How Do I Get Started? For further information please see the Professional Nursing page of this catalog.

Bachelor's in Nursing (BSN) and Master's in Nursing (MSN)

Typical Education Requirements: After successful completion of an ADN degree, the RN may decide to earn a BSN or MSN. The BSN offers the professional registered nurse upward mobility in the field of nursing to management positions and more advanced degrees. One to three additional years of study may be required depending on if a student goes part-time or full-time. The MSN would be of most interest to students interested in nursing education.

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What Does a BSN Do? The role of the BSN nurse is the same as the ADN nurse.

How Do I Get Started? Locate a school offering a BSN program.

For further information see http://www.allnursingschools.com/nursing-careers/article/nursing-career-path

Human Services

Occupational Education

Offered at all Campuses

A.A.S. Occupational Education 65-67 Credits

This program, which prepares students to become vocational educators, leads to an Associate in Applied Science degree. The program is a collaborative effort between 12 community colleges and four 4-year institutions.

A.A.S. Occupational Education

COLL 100 First Year Seminar	1		
General Education Requirements	Credits	Semester Taken	Prerequisites
BIOL 101 General Biology <i>or</i> CHEM 107 Preparatory General Chemistry <i>or</i> PHYS 101 Introductory Physics	5		MATH 104 (PHYS 112) MATH 110 (CHEM 107)
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 United States History to 1865 <i>and</i> HIST 121 United States History Since 1865			
or			
Two of the following:	6		
POLS 135 Introduction to Political Science POLS 136 Introduction to American National Politics POLS 137 Introduction to State and Local Politics			
MATH 119 College Mathematics <i>or</i> MATH 120 College Algebra	3		MATH 110 (MATH 119) MATH 110 (MATH 120)
SPDR 100 Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Any course numbered 100 or higher from the following disciplines: ART, ANTH, ECON, ENGL, Foreign Language, GEOG (except 104 or 110 and GIS courses), HIST, HUMN, MSCM, MUSI, PHIL, POLS, PSYC, SIGN, SOSC, SOCI, SPDR	3-5		
Specific Program Requirements			
Technical Education:			
Must focus on a specific occupational area (Any combination of formal college coursework, occupational certification or CBEX)	24		
Professional Education:*			
New Teacher Institute	3		
Development and Assessments of Vocational/Technical Curriculum	3		
Principles of Teaching Technology and Industrial Education	2		
Three of the following:			
Occupational Analysis			
Coordination of Cooperative Education	•		
Vocational Guidance	9		
Vocational Education for Handicapped Students			
Philosophy of Vocational Education			
Educational Psychology	05.07		
Total Credit Hours Required	65-67		
*Must be taken at one of the four-year teacher education institutions.			

Occupational Therapy Assistant

Offered at MCC-Penn Valley

A.A.S. Occupational Therapy Assistant......74 Credits

Certified occupational therapy assistants work under the supervision of a registered occupational therapist to provide care to individuals with varying physical and/or emotional challenges to obtain their maximum level of independence with self-care, and daily living and job skills. The occupational therapy

assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. ACOTE's telephone number is (301) 652-AOTA.

For more information, go to

www.mcckc.edu/ occupationaltherapy

A.A.S. Occupational Therapy Assistant

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
BIOL 100	Intro to Cell Biology	3		
BIOL 109	Anatomy and Physiology	6		BIOL 100 or CHEM 105
BIOL 150	Medical Terminology	2		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
PSYC 140	General Psychology	3		
Specific Pro	gram Requirements			
EMS 100	Basic Emergency Patient Care	1		
OTHA 100	Intro to Occupational Therapy	2		
OTHA 102	Documentation Guidelines	2		Formal admission to the OTHA program
OTHA 103	Clinical Conditions	2		Formal admission to the OTHA program
OTHA 106	Therapeutic Interventions I	4		Formal admission to the OTHA program
OTHA 116	Level I Fieldwork I	1		Formal admission to the OTHA program
OTHA 118	Assistive Technology	2		BIOL 109, EMTP 102, and OTHA 100, 102, 103, 106 and 116
OTHA 120	Pediatrics	3		BIOL 109, EMTP 102, and OTHA 100, 102, 103, 106 and 116
OTHA 121	Level I Fieldwork II	0.5		BIOL 109, EMTP 102, and OTHA 100, 102, 103, 106 and 116 and concurrent enrollment in OTHA 120
OTHA 130	Analysis of Physical Performance	3		BIOL 109, EMTP 102, and OTHA 100, 102, 103, 106 and 116
OTHA 154	Applied Neurology	2		BIOL 109 or 110; and BIOL 210 and admission to OTHA or PTHA program
OTHA 201	Mental Health	2.5		OTHA 118, 120, 121, 130 and 154
OTHA 202	Physical Dysfunction	3		OTHA 118, 120, 121, 130 and 154
OTHA 203	Gerontology	3		OTHA 118, 120, 121, 130 and 154
OTHA 208	Therapeutic Interventions II	2		OTHA 118, 120, 121, 130 and 154
OTHA 212	Level I Fieldwork III	2		OTHA 118, 120, 121, 130 and 154
OTHA 217	Fieldwork Seminar	3		OTHA 118, 120, 121, 130 and 154
OTHA 222	Level II Fieldwork	12		OTHA 201, 202, 203, 208, 212 and 217
	Hours Required	74		

Human Services

Paralegal Practice

Offered at MCC-Penn Valley

A.A.S. Paralegal Practice 64-67 Credits

This program leads to an Associate in Applied Science degree. It teaches students to prepare and file legal documents, perform legal research, and manage a law office.

A.A.S. Paralegal Practice

COLL 100	First Year Seminar	1		
Must be take	gram Requirements on at one of the MCC campuses	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120 HIST 121	United States History to 1865 <i>or</i> United States History Since 1865 <i>or</i>			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or	ŭ		
POLS 137	Introduction to State and Local Politics			
PSYC 140	General Psychology	3		
SOCI 160	Sociology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
	ation Electives: Any course(s) numbered 100 or above from			
	disciplines: BIOL, CHEM, GEOG (except 104, 110 and GIS	3-6		
	OL, MATH, PHYS			
	gram Requirements			
CRJU 101	Introduction to Criminal Justice	3		
CSIS 115	Introduction to Microcomputer Applications	3		
PARA 100	Introduction to Paralegal Practice	3		
PARA 104	Principles of Legal Technology	3		PARA 100, CSIS 110 or higher
PARA 126	Criminal Law and Procedures	3		PARA 100
PARA 176	Legal Research	3		PARA 100
PARA 177	Legal Writing	3		PARA 176
PARA 185	Ethics for the Paralegal	3		PARA 100
PARA 290	Internship in Paralegal Practice	3		PARA 100, 104, 176, 177, 185
PARA	Electives	12		
	CRJU, Foreign Language, MATH or CSIS	6		
Total Credit	Hours Required	64-67		

Paramedic

Offered at MCC-Penn Valley

This program, which leads to either an Associate in Applied Science degree or a certificate of proficiency, prepares students to work in the emergency medical services field. Graduates are eligible to take the national registry exam for paramedics.

Admission to the Paramedic Program

Because enrollment in the program is limited, a student must meet the requirements and apply for admission.

For more information, go to www.mcckc.edu/EMT

A.A.S. Paramedic

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
BIOL 108	Introductory Anatomy and Physiology or	5-10		
	IOL 110 and BIOL 210	3-10		
BIOL 150	Medical Terminology	2		
CHEM 105	Introductory Chemistry	5		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 110	Intermediate Algebra	3		MATH 40/40L
PSYC 140	General Psychology	3		
SOCI 160	Sociology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Specific Prog	gram Requirements			
EMS 150	Emergency Medical Technician	8		Student must be 18 years old by the end of the course
EMS 200	Intro to Paramedic Care	4		BIOL 108, or BIOL 109, or BIOL 110 & 210 admission to the Paramedic Program, and Missouri licensed EMT or equivalent from another state.
EMS 202	Paramedic Skills Laboratory I	2		BIOL 108 or 109 or BIOL 110 and 210, admission to the Paramedic program, and Missouri medical tecnician licensure
EMS 214	Paramedic Skills Laboratory II	2		EMS 202
EMS 206	Paramedic Pharmacology	4		EMS 200
EMS 212	Emergency Cardiology	4		EMS 206
EMS 218	Medical Emergencies	2		EMS 212
EMS 224	Trauma Management	2		EMS 218
EMS 230	Care of Women and Children	2		EMS 224
EMS 236	Prehospital Care Integration	2		EMS 230
EMS 254	Paramedic Hospital Clinical	5.5		EMS 206
EMS 258	Paramedic Field Internship	5.5		EMS 230
Total Credit	Hours Required	75-80		

Paramedic

Paramedic Certificate

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COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
BIOL 108 BIOL 109 or I	Introductory Anatomy and Physiology or BIOL 110 and BIOL 210	5-10		
EMS 150	Emergency Medical Technician	8		Student must be 18 years old by the end of the course and must hold a high school diploma or GED
EMS 200	Introduction to Paramedic Care	4		BIOL 108, or BIOL 109, or BIOL 110 & 210 admission to the Paramedic Program, and Missouri licensed EMT or equivalent from another state.
EMS 202	Paramedic Skills Laboratory I	2		BIOL 108 or 109 or BIOL 110 and 210, admission to the Paramedic program, and Missouri medical tecnician licensure
EMS 214	Paramedic Skills Laboratory II	2		EMS 202
EMS 206	Paramedic Pharmacology	4		EMS 200
EMS 212	Emergency Cardiology	4		EMS 206
EMS 218	Medical Emergencies	2		EMS 212
EMS 224	Trauma Management	2		EMS 218
EMS 230	Care of Women and Children	2		EMS 224
EMS 236	Prehospital Care Integration	2		EMS 230
EMS 254	Paramedic Hospital Clinical	5.5		EMS 206
EMS 258	Paramedic Field Internship	5.5		EMS 230
Total Credi	t Hours Required	50-55		

Physical Therapist Assistant

Offered at MCC-Penn Valley

A.A.S. Physical Therapist Assistant......73-79 Credits

This program leads to an Associate in Applied Science degree, and prepares students to assist physical therapists in treating patients with physical disabilities at various health care facilities.

Because enrollment to the program is limited, there is a separate application to the program. The program offers a traditional program with all classes at the Health Science Institute, as a well as a web based program, with lecture classes delivered on-line. Applications for the web based program are due October 1st. Prospective students should download the Prospective Student Information Packet and the Program Application at

www.mcckc.edu/physicaltherapy

A.A.S. Physical Therapist Assistant

COLL 100	First Year Seminar	1		
General Edu	ucation Requirements	Credits	Semester Taken	Prerequisites
BIOL 100	Intro to Cell Biology	3		
BIOL 109	Anatomy and Physiology or			
BIOL 110	Human Anatomy and	6-10		BIOL 100 or CHEM 105
BIOL 210	Human Physiology			
BIOL 150	Medical Terminology	2		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech	3		ENGL 30 or appropriate placement test score
Prerequisite	Courses			
PTHA 151	Intro to Physical Therapy	2		
Specific Pro	gram Requirements			
EMS 102	Basic Emergency Patient Care	1		
PTHA 152	Physical Therapy Fundamentals I	4		Formal acceptance into the program
PTHA 153	Kinesiology	4		BIOL 109 or BIOL 110 and BIOL 210 PTHA 152 and 160
PTHA 154	Applied Neurology	2		BIOL 109 or 110; and BIOL 210 and admission to OTHA or PTHA program
PTHA 155	Rehabilitation	4		PTHA 162
PTHA 158	Therapeutic Exercise	4		PTHA 162
PTHA 159	Orthopedic Pathology	2		BIOL 109 or BIOL 110 and BIOL 210 PTHA 152 and 160
PTHA 160	Medical Diseases	2		Formal acceptance into the program
PTHA 161	Physical Therapy Fundamentals II	4		BIOL 109 or BIOL 111 and BIOL 210, PTHA 152 and 160
PTHA 162	Clinical Experience I	2		PTHA 153, 154, 159, 161 and EMS 102
PTHA 164	Pediatrics and Gerontology	2		PTHA 162
				PTHA 162, concurrent enrollment in PTHA 155,
PTHA 170	Clinical Experience II	2		158, 164 and 171
PTHA 171	Clinical Seminar	2		PTHA 162
PTHA 172	Clinical Experience III	12		Completion of all other required courses in the PTHA program
Total Credit	Hours Required	73-79		

Polysomnography/Sleep Technology

Offered at Johson County Community College. Coordinated at MCC

A.A.S. Polysomnography/Sleep Tech............66-72 Credits

Polysomnography is the physiologic recording of variables such as brain waves, eye movement, muscle tone, breathing and heart rhythm during sleep. More than 80 different types of sleep disorders have been identified, with obstructive sleep apnea (OSA) symptoms occurring in 1 out of every 20 people.

Graduates of the program will enter the field as polysomnographic technicians and will be prepared to sit for the national exam administered by the Board of Registered Polysomnographic Technologists (BRPT) to gain the Registered Polysomnographic Technologist (RPSGT) credential. Students must be accepted into the program by both MCC and JCCC. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Polysomnography/Sleep Technology

Specific Program Requirements- Must be taken at JCCC	Credits	Semester Taken	Prerequisites
EMS 121 CPR I- Basic Live Support Healthcare Provider +	1	ranon	
PSG 125 Introduction to Sleep Medicine *	4		
PSG 130 Physiology of Sleep Medicine *	3		
PSG 140 Sleep Disorders *	4		
PSG 145 Sleep Study Instrumentation *	4		
PSG 150 Polysomnography I *	4		
PSG 245 Polysomnography Clinical I *	6		
PSG 250 Polysomnography II *	4		
PSG 255 Polysomnography Clinical II *	6		
PSG 265 Polysomnography Capstone	3		
Total Credits at JCCC	39		
* Prerequisite/Corerequisite required			
+ Students may take a PHED course at MCC if they current AHA BLS Health			
Care Provider Certification, otherwise students are required to take EMS			
121- Basic Live Support Healthcare Provider at JCCC.			
Specific Program Requirements- Must be taken at MCC			
ENGL 101 Composition and Reading I	3		ENGL 30 or satisfactory score on the ASSET test
CHEM 105 Introductory Chemistry ^	5		
BIOL 108 Introductory Anatomy and Physiology ^ or	5		
BIOL 110 Human Anatomy ^ and			
BIOL 210 Human Physiology ^			BIOL 100 and BIOL 110 or CHEM 105
MATH 110 Intermediate Algebra ^ or			MATH 40 or MATH 40L or satisfactory score on placement test
MATH 120 College Algebra or higher			MATH 110or satisfactory score on placement test
BIOL 150 Medical Terminology ** or	2		
HITE 103 Medical Terminology for Health Records **	3		
Communications Elective	3		
Humanities Elective	3		
Social Science/Economics Elective	3		
Total Program Credit Hours	66-72		

^{**} or satisfactory completion of a health related degree or certificate

Social Science and Economics Electives that will transfer from MCC to JCCC:

ANTH 100, ANTH 110, ANTH 120, ECON 110, ECON 210, ECON 211, GEOG 111, GEOG 112, POLS 135, POLS 136, POLS 137, POLS 234, PSYC 140, SOCI 160, SOCI 163, SOCI 170, SOCI 220

Humanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 133, HIST 134, HIST 140, HUMN 133, HUMN 134, HUMN 140, HUMN 145, MUSI 108, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128

Communication electives that will transfer from MCC to JCCC: BSAD 221, ENGL 102, ENGL 215, SPDR 100, SPDR 102, SPDR 103, SPDR 133

Indicates prerequisite courses, which must be completed prior to the clinic year at JCCC. The elective courses must be completed for the AAS degree, which establishes eligibility for the Registered Polysomnographic Technologist examination.

Practical Nursing

Offered at MCC-Penn Valley

Practical Nursing Certificate 53-59 Credits

Accreditation

This program leads to a certificate of proficiency and prepares students to take the National Council of State Boards of Licensure Examination for Practical Nurses. Graduates who pass the exam can accept entry-level jobs as licensed LPNs. The Practical Nursing Program is conditionally approved by the Missouri State Board of Nursing and accredited by the National League of Nursing Accrediting Commission. The MSBN can be contacted at 3605 MO Blvd., P.O Box 656 Jefferson City, MO 65102-0656; telephone 573-751-0681. The National League for Nursing Accrediting Commission can be contacted as a resource for information on the nursing program. The League's address is 350 Hudson St., New York, NY 10014; phone (212) 989-9393.

For more information, go to www.mcckc.edu/pvnursing

Practical Nursing Certificate

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester Taken	Prerequisites
BIOL 100 CHEM 105 BIOL 109 BIOL 110	Introduction to Cell Biology <i>or</i> Introduction Chemistry for Health Sciences Anatomy and Physiology <i>or</i> Anatomy and BIOL 210 Physiology	6-10		BIOL 100 or CHEM 105 BIOL 110 and either BIOL 100 or CHEM 205
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
PNUR 100	Personal and Vocational Concepts	1		Biology 109 or Biology 110 and BIOL 210 and Admission to the PN Program
PNUR 103	Fundamentals of Practical Nursing II	10		
PNUR 110	Pharmacology	4		PNUR 103
PNUR 128	Mental Health Nursing	4		PNUR 110
PNUR 132	The Childbearing Family	4		PNUR 110
PNUR 136	Venous Access and Intravenous Infusion	1		PNUR 110
PNUR 138	Nursing of the Adult I	8		PNUR 110
PNUR 144	Nursing of the Adult II	8		PNUR 138
PNUR 146	Leadership	3		PNUR 144
Total Credit	Hours Required	53-59		

Professional Nursing

Offered at MCC-Penn Valley

facilities. For more information, go to www.mcckc.edu/pvnursing

Admission to the program

Every student in the nursing program should be aware that the Missouri State Board of Nursing may refuse to issue a license to any person who has been found guilty of violating federal or state laws and for any of the 15 causes listed in Section 335.066 of the Missouri Revised Statues 1986. Copies of this law are available from the Missouri State Board of Nursing.

The nursing program is fully approved by the Missouri State Board of Nursing and is accredited by The National League of Nursing Accrediting Commission. The Missouri State Board of Nursing can be contacted at 3605 Missouri Boulevard, P.O. Box 656, Jefferson City, MO 65102-0656; telephone 573-751-0681. The National League for Nursing Accrediting Commission can be contacted at 3343 Peachtree Road NE, suite 500 Atlanta, GA 30326; P - 404-975-5000; fax - 404-975-5020.

A.A.S. Professional Nursing

COLL 100	First Year Seminar	1		
Prerequisite		Credits	Semester Taken	Prerequisites
BIOL 100 CHEM 105	Intro to Cell Biology or Introductory Chemistry	3-5		MATH 20/20L or appropriate placement test score
BIOL 109 BIOL 110 BIOL 210	Anatomy and Physiology <i>or</i> Human Anatomy <i>and</i> Human Physiology	6-10		BIOL 100 or CHEM 105 (BIOL 109) BIOL 100 or CHEM 105 and BIOL 110 (BIOL 110 & 210)
PSYC 140	General Psychology	3		(X 210)
	cation Requirements			
BIOL 208	Microbiology	5		BIOL 100 or CHEM 105 or higher, plus one of the following courses: BIOL 101, 104, 106, 108, 109, or 110.
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics Introduction to State will be required	3		
PSYC 243	Human Lifespan Development	4		PSYC 140
SOCI 160	Sociology	3		
SPDR 100 SPDR 102	Fundamentals of Speech or Fundamentals of Human Communication	3		ENGL 30 or appropriate placement test score
Specific Prog	gram Requirements			
RNUR 126	Fundamentals of Professional Nursing	6		Admission to the nursing program; completion of or concurrent enrollment in PSYC 243
RNUR 131	Essential Nursing Concepts	2		Admission to the nursing program; completion of or concurrent enrollment in PSYC 243
RNUR 134	Mental Health Nursing	4		Admission to nursing program; completion of RNUR 126, RNUR 131, PSYC 243; completion of or concurrent enrollment in BIOL 208
RNUR 138	Nursing Care of Women and Neonates	4		Admission to nursing program; completion of RNUR 126, RNUR 131, PSYC 243; completion of or concurrent enrollment in BIOL 208
RNUR 141	Adult Nursing I	3		Admission to nursing program; completion of RNUR 126, RNUR 131, PSYC 243; completion of or concurrent enrollment in BIOL 208
RNUR 230	Leadership/Management/Trends	2		ENGL 101, SOCI 160, RNUR 234, 238, SPDR 100 OR 102, HIST 120/121 OR POLS 135/136/137 (Constitutional requirement may be taken concurrently)
RNUR 234	Child-Centered Nursing	4		BIOL 208, RNUR 134, 138, 141 or taken concurrently: ENGL 101, SOCI 160
RNUR 238	Adult Nursing II	5		BIOL 208, RNUR 134, 138, 141 or taken concurrently: ENGL 101, SOCI 160
RNUR 244	Adult Nursing III	7		ENGL 101, SOCI 160, RNUR 234, RNUR 238, or taken concurrently: SPDR 100 & HIST 120/121 or POLS 135/136/137 or SOSC 151
Total Credit	Hours Required	71-77		

Radiologic Technology

Offered at MCC-Penn Valley

A.A.S. Radiologic Technology78 Credits

This program leads to an Associate in Applied Science degree and prepares students for entry-level jobs as radiologic technologists in a hospital or outpatient setting. Graduates are eligible to take the national certifying exam given by the American Registry of Radiologic Technologists.

Enrollment in this program is limited. The application form may be obtained from the program coordinator, the counseling department, or the office of the division of life science.

For more information, go to www.mcckc.edu/radiology

A.A.S. Radiologic Technology

HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	Prerequisites SL 30 or appropriate placement test score TH 40 or 40L SL 30 or appropriate placement test score
BIOL 150 Medical Terminology ENGL 101 Composition and Reading I HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher PSYC 140 General Psychology 3 ENG BATI BATI BATI BIOL 150 Medical Terminology 2 ENG BATI BAT	TH 40 or 40L
ENGL 101 Composition and Reading I 3 ENG HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	TH 40 or 40L
HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	TH 40 or 40L
HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	
POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher PSYC 140 General Psychology 3 MATI	
POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	
POLS 137 Introduction to State and Local Politics MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	
MATH 110 Intermediate Algebra or higher 3 MATI PSYC 140 General Psychology 3	
PSYC 140 General Psychology 3	
	GL 30 or appropriate placement test score
ODDD 400 Fire demonstrate of Originals	GL 30 or appropriate placement test score
SPDR 100 Fundamentals of Speech 3 ENG	
Specific Program Requirements	
RATE 150 Introduction to Radiologic Technology 2	
RATE 160 Fundamentals of Radiologic Technology 2	
	E 160
RATE 171 Radiographic Imaging I 3 RATE	E 160
DATE	E 160, concurrent enrollment in RATE 165
RATE 172 Radiographic Procedures 1 3 and 2	173
RATE 470 Olivinal Prestical	E 160 and concurrent enrollment in RATE
RATE 173 Clinical Practice I 3 RATE 165 a	and 172
RATE 174 Radiographic Imaging II 2 RATE	E 160 and concurrent enrollment in RATE
RATE 174 Radiographic Imaging II 2	
RATE 175 Clinical Practice II 4	E 173 and concurrent enrollment in RATE
176	
RATE 176 Radiographic Procedures II 3 BIOL	L, RATE 165, 172, 173, concurrent enrollment
In RA	ATE 175
RATE 178 Clinical Practice III 4 RATE	E 175
	E 171
	E 174, 180
RATE 278 Pathology 2 RATE	E 279, 280 and concurrent enrollment in
RAIL	E 282
	E 176 and concurrent enrollment in RATE
280	
	E 178, concurrent enrollment in RATE 279
	E 171 and RATE 180
	E 280
	E 279 and 280
DATE	E 176 and concurrent enrollment in RATE
279 8	and 280
Total Credit Hours Required 78	

Business, Management & Technology

Railroad Operations Technology
Offered at Johnson County Community College

Coordinated at MCC

A.A.S. Railroad Op.	lech. Railroad	
Conductor		. 64 Credits

This program leads to an Associate in Applied Science degree in Railroad Conductor. Students must be accepted into the program by both MCC and JCCC. The student is awarded the degree from JCCC upon successful completion of all requirements.

Program course and credit hours are subject to change because of the requirement changes at the degree-granting institution. It is the student's responsibility to check with an MCC counselor or advisor before enrollment.

A.A.S. Railroad Op. Tech. Railroad Conductor

Specific Pro	ogram Requirements en at one of the MCC campuses	Credits	Semester Taken	Prerequisites
BSAD 150	Business Essentials	3		
CSOF 100	Introduction to Personal Computing	1		Keyboarding skills or enrollment in CSOF 80
CSOF 101	Introduction to Word Processing	1		Keyboarding skills with minimum of 35 wpm
CSOF 102	Introduction to Spreadsheet Applications	1		to jobaranig ciano trial riminani ci co ripin
ECON 110	Introduction to Economics or			
ECON 210	Macroeconomics	3		
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
MATH 103	Technical Mathematics I	3		MATH 40 or 40L or satisfactory score on math
PHED or He	alth Flective*	1		
PHIL 200	Logic	3		
SPDR 102	Fundamentals of Human Communication	3		ENGL 30 or appropriate placement test score
Specific Pro	ogram Requirements			2 2 5 appropriate procession tool cools
Must be take	en at Johnson County Community College			
MTH 131	Technical Mathematics II*	3		
PHIL 138	Business Ethics	1		1
PHYS 133	Applied Physics*	5		1
RRT 120	History of Railroading	3		1
RRT 121	Railroad Technical Careers	3		1
RRT 150	Railroad Operations	3		See JCCC course descriptions in the Courses
RRT 165	Railroad Safety, Quality and Environment	3		section of this catalog for individual course
RRTC 123	Introduction to Conductor Service*	4		prerequisites.
RRTC 175	Conductor Mechanical Operations*	2		-
RRTC 261	Conductor Service*	2		-
RRTC 263	General Code of Operating Rules*	4		1
RRTC 267	Conductor Field Application*	4		-
	ectives — Must be taken at JCCC:			
AUTO 125	Introduction to Automotive Shop Practices	3		
AUTO 165	Automotive Engine Repair*	4		
CET 105	Construction Methods	3		
CET 129	Construction Management	3		
CPCA 138	Windows for Microcomputers*	1		
DRAF 123	Interpreting Machine Drawings*	2		
DRAF 123	Interpreting Machine Drawings Interpreting Architectural Drawings	2		
ELEC 120	Introduction to Electronics	3		
ELEC 120	Microcomputer A+ Preparation	3		
ELEC 120	Programmable Controllers	3		
ELEC 150	Introduction to Telecommunications	3		
ENGR 180	Engineering Land Surveying I*	3		
GEOS 140	Physical Geography	3		
GEOS 140	Physical Geography Lab*	2		
HVAC 123	Electromechanical Systems	4		
INDT 125	Industrial Safety/OSHA 30	3		
MFAB 130	Introduction to Gas Metal Arc Welding I (GMAW I)*	4		
MFAB 150	Manufacturing Materials and Processes	3		
MFAB 240	Metallurgy	2		
	Metallurgy /Corequisite required			
Total Credit	mours	64		

Respiratory Care

Offered at Johnson County Community College. Coordinated at MCC-Penn Valley

A.A.S. Respiratory Care......75-78 Credits

This program, offered under the auspices of Johnson County Community College (JCCC), leads to an Associate in Applied Science degree and qualifies the student for the National Board for Respiratory Care examination process. Additional program information may be acquired from the counseling office at MCC-Penn Valley and from the academic director at JCCC. Students must be accepted into the program by both MCC and JCCC. The student is awarded the degree from JCCC upon successful completion of all requirements. It is the student's responsibility to check with an MCC counselor or advisor before enrollment. Eligibility

To be considered for admission to the program, a student must complete all required college courses in English, mathematics, and science with a minimum grade of C and must have minimum overall college GPA of 2.0.

Admission to the Program
The number of MCC students admitted to the program is limited. The number of MCC students admitted to the program is limited. In order to be certain that they will be considered for admission to the class, which begins its specialized course work in June, an MCC student must complete the application process by the previous October 15. Applications are not considered until all required material has been submitted. If openings remain for MCC students after the initial applications have been reviewed, students who have missed the deadline will be considered if their applications are completed by February 15. Further information is available in the counseling office at MCC-Penn Valley and from the academic director at JCCC.

Selection of students for the program is determined by the ranking of applications according to the interview score, the overall college GPA, and the GPA in prerequisite courses. Further information is available from the Director of the Respiratory Care Program at JCCC.

Note: All English, mathematics, and science courses must be completed successfully before the student is eligible for the clinical courses at JCCC. Students may make application, however, if coursework will be completed by the clinical year.

A.A.S. Respiratory Care

	gram Requirements n at one of the MCC campuses	Credits	Semester Taken	Prerequisites	
BIOL 110	Human Anatomy [^]	5	iakeii		
BIOL 110	Microbiology [^]	5		BIOL 100 or CHEM 105 or higher, plus one of the following courses: BIOL 101, 104, 106, 108, 109, or 110.	
BIOL 210	Human Physiology [^]	5		BIOL 110, either BIOL 100 or CHEM 105	
CHEM 105	Introductory Chemistry^	5		·	
ENGL 101	Composition and Reading I [^]	3		ENGL 30 or appropriate placement test score	
MATH 110 MATH 120	Intermediate Algebra <i>or</i> College Algebra or higher^	3		MATH 40 or 40L (MATH 110) MATH 110 (MATH 120)	
Social Science	e/Economics Elective	3			
Communicati	ons Elective	3		See Courses section of this catalog for individual	
Humanities E	ective	3		course prerequisites.	
	gram Requirements n at Johnson County Community College				
EMS 121	CPR I Basic Life Support Healthcare Provider	1			
HC 101	Introduction to Health Care Delivery**	3			
RC 125	Beginning Principles of Respiratory Care*	4			
RC 130	Respiratory Care Equipment*	4			
RC 135	Cardiopulmonary Medicine I*	1			
RC 220	Clinical Cardiopulmonary Physiology*	2			
RC 230	Clinical Topics and Procedures I*	4		See JCCC course descriptions in the Courses	
RC 231	Clinical Topics and Procedures II*	4		section of this catalog for individual course	
RC 233	Respiratory Care of Children*	2		prerequisites.	
RC 235	Cardiopulmonary Medicine II*	2			
RC 236	Cardiopulmonary Medicine III*	2			
RC 240	Cardiopulmonary Pharmacology*	2			
RC 271	Clinical Practice I*	6		1	
RC 272	Clinical Practice II*	6			
Total Credi	Hours Required	75-78			

Andicates prerequisite courses, which must be completed prior to the clinic year at JCCC. The elective courses must be completed for the AAS degree, which establishes eligibility for the National Board for Respiratory Care examinations.

**HC 101 is not a required course for the degree but is strongly encouraged. See the program application packet for details on how this course may be used to meet clinic-year eligibility requirements.

**Social Science and Economics Electives that will transfer from MCC to JCCC:

ANTH 100, ANTH 110, ANTH 120, ECON 110, ECON 210, ECON 211, GEOG 111, GEOG 112, POLS 135, POLS 136, POLS 137, POLS 234, PSYC 140, SOCI 160, SOCI 163, SOCI 170, SOCI 220

**HUMBRIDE Flortives that will transfer from MCC to JCCC:

160, SOCI 163, SOCI 170, SOCI 220

Rumanities Electives that will transfer from MCC to JCCC:

ART 108, ART 150, ART 151, ART 159, ENGL 214, ENGL 216, ENGL 218, ENGL 220, ENGL 221, ENGL 222, ENGL 223, ENGL 234, ENGL 240, ENGL 250, ENGL 254, ENGL 255, ENGL 256, ENGL 268, FREN 203, FREN 204, SPAN 203, SPAN 204, HIST 120, HIST 121, HIST 133, HIST 134, HIST 140, HIST 150, HUMN 134, HUMN 134, HUMN 145, MUSI 108, MUSI 106, PHIL 100, PHIL 101, PHIL 200, PHIL 201, PHIL 203, SPDR 106, SPDR 114, SPDR 128

Communication electives that will transfer from MCC to JCCC:

BSAD 221, ENGL 102, ENGL 215, SPDR 100, SPDR 102, SPDR 103, SPDR 133

Surgical Technology

Offered at MCC-Penn Valley

This program leads to an Associate in Applied Science degree or certificate of proficiency and prepares students for entry-level jobs as operating room technicians.

A.A.S. Surgical Technology

COLL 100	First Year Seminar	1		
General Edu	cation Requirements	Credits	Semester	Droroguisitos
Must be take	n at one of the MCC campuses	Credits	Taken	Prerequisites
BIOL 100	Introduction to Cell Biology or	3-5		MATH 20 or satisfactory score or placement test
CHEM 105	Introductory Chemistry for Health Sciences	3-3		, ,
BIOL 109	Anatomy and Physiology <i>or</i>			BIOL 100 <i>or</i> CHEM 105
BIOL 110	Human Anatomy and	6-10		BIOL 440 A W BIOL 400 OUEN 405
BIOL 210	Human Physiology	0		BIOL 110 and either BIOL 100 or CHEM 105
BIOL 150	Medical Terminology	2		DIOL 100 ex CLIEM 205 ex higher plus and of the
BIOL 208	Microbiology	5		BIOL 100 <i>or</i> CHEM 205 <i>or</i> higher, plus one of the following courses: BIOL 101, 104, 106, 108, 109, <i>or</i> 110
ENGL 101	Composition and Reading I	3		
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136 POLS 137	Introduction to American National Politics or Introduction to State and Local Politics			
PSYC 140	General Psychology	3		
SPDR 100	Fundamentals of Speech or			
SPDR 102	Fundamentals of Human Communications	3		
	gram Requirements			
STNU 100	Introduction to Surgical Technology	2		
STNU 101	Care of the Surgical Patient	3		BIOL 100 or CHEM 105, BIOL 109 or 110 and BIOL 210, 150, 208. Formal acceptance into the program
STNU 102	Principles of Surgical Technology I	5		BIOL 100 or CHEM 105, BIOL 109 or 110 and BIOL 210, 150, 208. Formal acceptance into the program
STNU 103	Principles of Surgical Technology II	4		BIOL 100 or CHEM 105, BIOL 109 or 110 and BIOL 210, 150, 208. Formal acceptance into the program
STNU 105	Pharmacology for the Surgical Technologist	2		STNU 100, 101, 102, 103
STNU 120	Surgical Procedures I	4		STNU 100, 101, 102, 103
STNU 121	Clinical Experience I	2		STNU 100, 101, 102, 103 and concurrent enrollment in STNU 120
STNU 130	Surgical Procedures II	4		STNU 105, 120, 121
STNU 131	Clinical Experience II	2		STNU 105, 120, 121 and concurrent enrollment in STNU 130
STNU 140	Surgical Procedures III	4		STNU 105, 120, 121
STNU 141	Clinical Experience III	2		STNU 105, 120, 121 and STNU concurrent enrollment in STNU 140
Total Credit	Hours Required	63-69		

Surgical Technology

Offered at MCC-Penn Valley

Surgical Technology Certficate

	First Vers Consider	1		
COLL 100	First Year Seminar	1	0	
	ication Requirements	Credits	Semester	Prerequisites
	n at one of the MCC campuses		Taken	4
BIOL 100	Introduction to Cell Biology or	3-5		MATH 20 or satisfactory score or placement test
CHEM 105	Introductory Chemistry for Health Sciences			, '
BIOL 109	Anatomy and Physiology or	0.40		BIOL 100 <i>or</i> CHEM 105
BIOL 110	Human Anatomy and	6-10		BIOL 110 and either BIOL 100 or CHEM 105
BIOL 210	Human Physiology			BIOL 110 and either BIOL 100 or Chew 105
BIOL 150	Medical Terminology	2		DIOL 400 an OUTM 005 and inhanced as a fither
DIOL 200	Migrahialogy	_		BIOL 100 or CHEM 205 or higher, plus one of the
BIOL 208	Microbiology	5		following courses: BIOL 101, 104, 106, 108, 109, or 110
Specific Pro	gram Requirements			07 110
STNU 100	Introduction to Surgical Technology	2		
31110 100	introduction to Surgical Technology			BIOL 100 or CHEM 105, BIOL 109 or 110 and
STNU 101	Care of the Surgical Patient	3		BIOL 210, 150, 208. Formal acceptance into the
01110	odic of the odigical ration			program
				BIOL 100 or CHEM 105, BIOL 109 or 110 and
STNU 102	Principles of Surgical Technology I	5		BIOL 210, 150, 208. Formal acceptance into the
	· · · · · · · · · · · · · · · · · · ·			program
				BIOL 100 or CHEM 105, BIOL 109 or 110 and
STNU 103	Principles of Surgical Technology II	4		BIOL 210, 150, 208. Formal acceptance into the
	, , ,			program
STNU 105	Pharmacology for the Surgical Technologist	2		STNU 100, 101, 102, 103
STNU 120	Surgical Procedures I	4		STNU 100, 101, 102, 103
STNU 121	Clinical Experience I	2		STNU 100, 101, 102, 103 and concurrent
31110 121	Cillical Experience i			enrollment in STNU 120
STNU 130	Surgical Procedures II	4		STNU 105, 120, 121
STNU 131	Clinical Experience II	2		STNU 105, 120, 121 and concurrent enrollment in
	<u>'</u>			STNU 130
STNU 140	Surgical Procedures III	4		STNU 105, 120, 121
STNU 141	Clinical Experience III	2		STNU 105, 120, 121 and STNU concurrent enrollment
	<u>'</u>			in STNU 140
Total Credit	: Hours Required	51-57		

Trade Apprenticeship Degree Completion Programs

Offered at MCC-Business & Technology

These degree completion programs grant college credit by certification for certain federally approved apprenticeship programs. An eligible apprenticeship must contain a minimum 450 clock hours of classroom instruction and a program-specific number of clock hours of on-the-job training. Thirty to forty-two hours of MCC credit leading toward an AAS in Industrial Technology will be awarded upon completion of 15 hours of MCC coursework and receipt of a certificate and/or journeyman card for the appropriate craft.

Construction Trades Apprenticeship Programs

Offered at MCC-Business & Technology

These degree completion programs grant college credit by certification for certain federally approved apprenticeship programs. An eligible apprenticeship must contain a minimum 450 clock hours of classroom instruction and a program-specific number of clock hours of on-the-job training. Thirty to forty-two hours of MCC credit leading toward an AAS in Industrial Technology will be awarded upon completion of 15 hours of MCC coursework and receipt of a certificate and/or journeyman card for the appropriate craft.

A.A.S. Industrial Technologies		Floor Layer	
Bricklayer	64-66 Credits	Glaziers	64-66 Credits
Construction Carpentry		Inside Wiring	
Construction Cement Masons	64-66 Credits	3 -Year program	64-66 Credits
Construction Driver & Logistics	63-67 Credits	5 -Year program	67-68 Credits
Construction Ironwork	64-66 Credits	Painter	64-66 Credits
Construction Laborer	64-66 Credits	Plumbing	64-66 Credits

Industrial Trades Apprenticeship Programs

Offered at MCC-Business & Technology

These degree completion programs grant college credit by certification for certain federally approved apprenticeship programs. An eligible apprenticeship must contain a minimum 450 clock hours of classroom instruction and a program-specific number of clock hours of on-the-job training. Thirty to forty-two hours of MCC credit leading toward an AAS in Industrial Technology will be awarded upon completion of 15 hours of MCC coursework and receipt of a certificate and/or journeyman card for the appropriate craft.

A.A.S. Industrial Technology

Industrial Mechanic	64-66 Credits	Lineman Tech/Cable Splicer	63-65 Credits
Industrial Pipefitter/Sprinkler Fitter	65-67 Credits	Maintenance Electrician	63-65 Credits
Industrial Warehouse Worker	62-63 Credits	Millwright	64-66 Credits
Industrial Welder	65-67 Credits	Sheet Metal	64-66 Credits

Natural Resources/Agriculture

Veterinary Technology

Offered at MCC-Maple Woods

A.A.S. Veterinary Technology78 Credits

The Veterinary Technology program is a two-year, full-time day program accredited by the American Veterinary Medical Association. This program provides the educational background necessary to perform nursing and technical duties used in clinical practice or research. Graduates of the program will be able to sit for the state and national board examinations to become a Registered Veterinary Technician.

Admission to the Program

Admission to the program is limited so that each student has full access to our outstanding instructors and facilities. To be admitted to the program, students must meet certain requirements. Students can view the requirements and obtain an application packet online.

Call the program office (816) 604-3235 for more information For more information, go to **www.mcckc.edu/veterinary**

A.A.S. Veterinary Technology

COLL 100	First Year Seminar	1		
General Edu	ication Requirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30 or appropriate placement test score
ENGL 102	Composition and Reading II	3		ENGL 101
HIST 120	United States History to 1865 or			
HIST 121	United States History Since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
SPDR 100	Fundamentals of Speech or	3		ENGL 30 or appropriate placement test score
SPDR 103	Interpersonal Communication			Enter of appropriate placement test deere
BIOL 106	General Zoology (101 may also be used)	5		
BIOL 208	Microbiology	5		BIOL 100 or CHEM 105 or higher, plus BIOL 101 or 106
CHEM 105	Introductory Chemistry or	5		
CHEM 111	General College Chemistry	3		
Specific Pro	gram Requirements			
VETT 100	Veterinary Practice Management	2		
VETT 101	Principles of Animal Science I	4		
VETT 108	Clinical Mathematics for Veterinary Technicans	1		Admission into Veterinary Technician Program.
VETT 110	Principles of Animal Science II	4		VETT 101
VETT 111	Sanitation and Animal Care	2		
VETT 200	Veterinary Hospital Technology I	3		VETT 101 and 110
VETT 201	Clinical Pathology Techniques	4		
VETT 202	Veterinary Anatomy	5		BIOL 101 or 106
VETT 203	Laboratory Animal Technology	2		VETT 101, 110 and 201
VETT 209	Equine Medicine and Management	3		VETT 212
VETT 210	Veterinary Hospital Technology II	3		VETT 200
VETT 211	Clinical Pathology Techniques II	5		VETT 201
VETT 212	Large Animal Technology	4		VETT 101 and 110
VETT 213	Radiology and Electronic Procedures	2		
VETT 214	Veterinary Technician Preceptorship	6		Two semesters of 1st year VETT tech courses
Total Credit	Hours Required	78		

Welding

Offered at MCC-Business & Technology

A.A.S. Welding Technology and	d Management
	63-68 Credits
MIG Certificate	22-23 Credits
MIG/TIG Certificate	22-23 Credits
Welding and Fabrication (Certificate
	18-21 Credits

This Welding Technology & Management program provides the students with the training that meets the standards of the American Welding Society's curriculum. Curriculum will prepare the students to successfully pass the AWS written certification tests.

This will allow the student to engage in gainful employment in the welding/fabrication industry as welding is one of the high-demand occupations designated by the state of Missouri. Students completing the two-year degree will acquire the skills required of managerial and technical training personnel. This will allow students to transcend the welding industry into other welding-related careers when these opportunities are present, fulfilling the personal desires of promotion throughout their careers. Students completing welding certificates can later come back and integrate course work already completed into the two-year degree and complete the degree while employed.

A.A.S. Welding Technology and Management

	eiding rechnology and Management			
COLL 100	First Year Seminar	1		
General Rec	uirements	Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENG 30 or appropriate placement score.
HIST 120	United States History to 1865 or			
HIST 121	United States History since 1865 or			
POLS 135	Introduction to Political Science or	3		
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
NAATIL 400	T 1 1 11 0 C 1			MATH 40 or MATH 40L or appropriate placement score.
MATH 103	Technical Mathematics I or			MATH 20 or 20L or appropriate placement score to
MATH 103R	Technical Mathematics I w/ review and			MATH 103R.
MATH 104	Technical Mathematics II or	5-7		MATH 103
MATH 120 MATH 130	College Algebra and			MATH 110 or satisfactory score on the math placement test.
	Trigonometry or			MATH 120 or satisfactory score on the placement test.
MATH 150	PreCalculus			MATH 110 or satisfactory score on the math placement test.
SPAN 100	Beginning Occupational Spanish	3		,
SPDR 100	Fundamentals of Speech	3		
	gram Requirements			
CSOF 100	Introduction to Personal Computing	1		
EHSS 111	Introduction to Health & Safety for General Industry or	-		
EHSS 112	Introduction to Health & Safety for Construction	1 1		
INTE 124	Employment Strategies for Technical Careers	2		CSOF 100 or CSIS 115
WELD 110	Welding Industry Fundamentals	3		
WELD 120	Thermal Cutting Processes Lecture	1		WELD 110 or concurrent enrollment
WELD 121	Thermal Cutting Processes Lab	2		WELD 120 or concurrent enrollment
WELD 130	Print Reading & Weld Symbols	3		
WELD 140	Shielded Metal Arc Welding I (stick) Lecture	1		WELD 121 or concurrent enrollment
WELD 141	Shielded Metal Arc Welding I (stick) Lab	2		WELD 140 or concurrent enrollment
WELD 150	Gas Metal Arc Welding I (MIG)(stick) Lecture	1		WELD 121 or concurrent enrollment
WELD 151	Gas Metal Arc Welding I (MIG)(stick) Lab	2		WELD 150 or concurrent enrollment
WELD 160	Gas Tungsten Arc Welding I (TIG) Lecture	1		WELD 121 or concurrent enrollment
WELD 161	Gas Tungsten Arc Welding I (TIG) Lab	2		WELD 160 or concurrent enrollment
WELD 230	Layout and Fabrication Lecture	1		WELD 130 and one WELD 100 level lecture & lab
WELD 231	Layout and Fabrication Lab	2		WELD 230 and one WELD 100 level lecture & lab
WELD 240	Shielded Metal Arc Welding II (stick) Lecture	1		WELD 141
WELD 241	Shielded Metal Arc Welding II (stick) Lab	2		WELD 240
WELD 250	Gas Metal Arc Welding II (MIG) Lecture	1		WELD 151
WELD 251	Gas Metal Arc Welding II (MIG) Lab	2		WELD 250
WELD 260	Gas Tungsten Arc Welding II (TIG) Lecture	1		WELD 161
WELD 261	Gas Tungsten Arc Welding II (TIG) Lab	2		WELD 260
WELD 270	Flux Core Arc Welding Lecture	1		WELD 151 or concurrent enrollment
WELD 271	Flux Core Arc Welding Lab	2		WELD 270 or concurrent enrollment
WELD 290	Management Skills for the Trades	3		WELD 231 and one WELD 100 level lecture & lab
Electives: BSA	AD, ETEC 152, ETEC 169, MATE 100/101 or MATE 130	3-7		
	Hours Required	63-68		

Welding

Welding MIG Certificate (AWS modular certification)

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
MATH 103R	Technical Math I w/ review or higher	3-4		MATH 20 or 20L or appropriate score on placement test for MATH 103R
WELD 110	Welding Industry Fundamentals	3		
WELD 120	Thermal Cutting Processes Lecture	1		WELD 110
WELD 121	Thermal Cutting Processes Lab	2		WELD 120 or concurrent enrollment
WELD 130	Print Reading & Weld S ymbols	3		
WELD 150	Gas Metal Arc Welding I (MIG) Lecture	1		WELD 121 or concurrent enrollment
WELD 151	Gas Metal Arc Welding I (MIG) Lab	2		WELD 150 or concurrent enrollment
WELD 230	Layout and Fabrication Lecture	1		WELD 130 and one WELD 100 level lecture & lab
WELD 231	Layout and Fabrication Lab	2		WELD 230 and one WELD 100 level lecture & lab
WELD 270	Flux Core Arc Welding Lecture	1		WELD 151 or concurrent enrollment
WELD 271	Flux Core Arc Welding Lab	2		WELD 270 or concurrent enrollment
Total Credit	Hours Required	22-23		

Welding MIG/TIG (AWS modular certification)

COLL 100	First Year Seminar	1		
Specific Pro	gram Requirements	Credits	Semester Taken	Prerequisites
MATH 103R	Technical Math I w/ review or higher	3-4		MATH 20 or 20L or appropriate score on placement test for MATH 103R
WELD 110	Welding Industry Fundamentals	3		
WELD 120	Thermal Cutting Processes Lecture	1		WELD 110 or concurrent enrollment
WELD 121	Thermal Cutting Processes Lab	2		WELD 120 or concurrent enrollment
WELD 130	Print Reading & Weld Symbols	3		
WELD 150	Gas Metal Arc Welding I (MIG) Lecture	1		WELD 121 or concurrent enrollment
WELD 151	Gas Metal Arc Welding I (MIG) Lab	2		WELD 150 or concurrent enrollment
WELD 160	Gas Tungsten Arc Welding I (TIG) Lecture	1		WELD 121 or concurrent enrollment
WELD 161	Gas Tungsten Arc Welding I (TIG) Lab	2		WELD 160 or concurrent enrollment
WELD 230	Layout and Fabrication Lecture	1		WELD 130 and one WELD 100 level lecture & lab
WELD 231	Layout and Fabrication Lab	2		WELD 230 and one WELD 100 level lecture & lab
Total Credit	Hours Required	22-23		

Welding & Fabrication Certificate

COLL 100	First Year Seminar	1		
Specific Prog	gram Requirements	Credits	Semester Taken	Prerequisites
MATE 100 MATE 101 MATE 130	Intro to Manufacturing Technology and Machining & Tooling or Machining for Related Occupations	5-7		MATE 100
MATH 103R	Technical Math I w/ Review or higher	3-4		MATH 20 or 20L or appropriate score on placement test for MATH 103R
WELD 130	Print Reading & Weld Symbols	3		
WELD 150	Gas Metal Arc Welding I (MIG) Lecture	1		WELD 121 or concurrent enrollment
WELD 151	Gas Metal Arc Welding I (MIG) Lab	2		WELD 150 or concurrent enrollment
WELD 230	Layout and Fabrication Lecture	1		WELD 130 and one WELD 100 level lecture & lab
WELD 231	Layout and Fabrication Lab	2		WELD 230 and one WELD 100 level lecture & lab
Total Credit	Hours Required	18-21		

