MCC-ASSOCIATE OF ARTS DEGREE
American Institutions (6 credits)—choose two courses:
HIST 120 American History I
HIST 121 American History II
POLS 135 Introduction to Political Science
POLS 136 Introduction to American National Politics

Communications (9 credits)—choose all of the following:
ENGL 101 Composition and Reading I
ENGL 102 Composition and Reading II
SPDR 100 Fundamentals of Speech

Humanities (9 credits)—choose three courses (including one Lit or Phil), each from a different area:
Art History or ART 108
Foreign Language 101 or higher; or SIGN 101 or 102*
ENGL 214 or 216 or 254 or 255 or 220 or 221 or 222 or 223
HUMN
MUSI 108, 116, or 160
PHIL
SPDR 103, 104, 110, 112, 114, 128, or 133; or MSCM 112
HIST/HUMN 133 or 134

Mathematics (3 credits)—choose one course:
MATH 120 College Algebra

Natural Science (9-10 credits)—choose one course from each area:
Any BIOL laboratory course
Any Physical Science laboratory course

Social Science (6 credits)—choose two courses, each from a different area:
Any course from ANTH, CRJU, ECON, HIST, POLS, PSYC, SOCI

Computer (3 credits)—choose one course:
CSIS 110 or 115

Electives (14-17 credits)—choose from the following:
Suggested courses to also fulfill BS requirements at UMKC:

Other elective courses:

TOTAL CREDITS REQUIRED: 62 CREDITS

General Requirements (11 credits)—choose all of the following:
Cluster Course (300/400 level)
*Foreign Language Requirement:
Foreign language is not required for any Bachelor of Science degree at UMKC.

UMKC BACHELOR OF SCIENCE DEGREE – PHYSICS

To fulfill the Major Requirements for the BS in Physics, students must successfully complete 12 credit hours of required mathematics courses (MATH 210, 220, and 250); 10 credit hours of required chemistry courses (CHEM
211/211L and 212R/212LR); 40 credit hours of required physics courses (PHYSICS 240, 250, 310, 311, 330, 350, 385L, 395L, 410, 420, 460, 461, and 472); and 6 credit hours of elective physics laboratories (chosen from PHYSICS 425LW, 445L, 475L, and 480). A minimum of 60 combined credit hours of courses in the physical sciences and math is required to fulfill the BS degree. All physics majors must maintain a 2.0 GPA average in all courses taken to fulfill departmental degree requirements. To complete a BS degree, students must complete a minimum of 60 credit hours of combined math and science courses. For those students that have completed the Associate in Arts degree, the remaining general education course requirements are: three semesters of the same foreign language (if not already taken), passage of the Written English Proficiency Test, a 300/400 level Writing Intensive course, and a 300/400 interdisciplinary “cluster course.” A Writing Intensive course from MCC will not fulfill the upper-level Writing Intensive requirement at UMKC. The BS degree in PHYSICS requires 120 minimum credit hours, including 36 hours at the 300/400 level.

**Required Courses in PHYSICS**—choose all of the following:

- MATH 210 Calculus I
- MATH 220 Calculus II
- MATH 250 Calculus III
- MATH 345 Ordinary Differential Equations
- CHEM 211 General Chemistry I 
- CHEM 211L Exper General Chem I
- CHEM 212R General Chemistry II 
- CHEM 212LR Exper General Chem II
- PHYSICS 240 Physics For Science And Engineering I
- PHYSICS 250 Physics For Science And Engineering II
- PHYSICS 310 Mechanics I
- PHYSICS 311 Mechanics II
- PHYSICS 330 Methods Of Theoretical Physics I
- PHYSICS 350 Modern Physics With Engineering Applications
- PHYSICS 385L Physics of Electronics
- PHYSICS 395L Computer Interfacing Laboratory
- PHYSICS 410 Thermal Physics
- PHYSICS 420 Optics
- PHYSICS 460 Electricity And Magnetism I
- PHYSICS 461 Electricity And Magnetism II
- PHYSICS 472 Introduction To Quantum Mechanics

Elective PHYSICS Labs—Choose 6 hours

- PHYSICS 425LW Optics Laboratory
- PHYSICS 445L Modern Physics Laboratory
- PHYSICS 475L Nuclear Physics Laboratories
- PHYSICS 480 Electron and Scanning probe Microscopy

**MINIMUM CREDITS REQUIRED:**

120 CREDITS