



Major Map: BA Computer Science

Catalog Year: 2008-2009

The following is a sample course of study. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement.

Your path to graduation may vary slightly based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning and placement in Mathematics. You are responsible for checking prerequisites to any courses.

| Course Subject and Title | Hrs. | Upper Division | Transfer Course | Minimum Grade if Required | Date Completed | Final Grade | Pre-requisites met | Additional Critical Tracking Notes |
|--|------|--------------------------|--------------------------|---------------------------|----------------|-------------|--------------------------|------------------------------------|
| Fall Semester Year 1: 16 hours | | | | | | | | |
| CS 101, Problem Solving & Programming I | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| CS 191, Discrete Structures I | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| Constitution Requirement ¹ | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| ENGL 110, Intro to Academic Prose | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Math 210, Calculus I | 4 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| Spring Semester Year 1: 15 hours | | | | | | | | |
| CS 201, Problem Solving & Programming II | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| CS 291, Discrete Structures II | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| COM ST 110, Fund of Effective Speaking & Listening | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Math 220, Calculus II | 4 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| General Elective ³ | 2 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Summer Semester Year 1 | | | | | | | | |
| May use summer semester to lighten fall and winter course loads. | | | | | | | | |
| Fall Semester Year 2: 15 hours | | | | | | | | |
| CS 281, Intro Computer Architecture | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | Complete WEPT |
| STAT 235, Statistics | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| Foreign language 110 ⁴ | 5 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Physical Science Elective ⁵ | 4 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Spring Semester Year 2: 15 hours | | | | | | | | |
| CS 282, Assembler Language Program | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| ENGL 225, English II | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| Foreign Language 120 | 5 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Life Science Elective | 4 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Summer Semester Year 2: ___ hours | | | | | | | | |
| | | | | | | | | |
| Fall Semester Year: 15 hours | | | | | | | | |
| CS 352, Data Structures & Algorithms | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| General Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| General Elective (300 level or greater) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Humanities and Fine Arts Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Culture Course | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Spring Semester Year 3: 15 hours | | | | | | | | |
| CS 441 Programming Language Design | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| CS 4XX Computer Science Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| CS 304WI Ethics and Professionalism | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| General Elective (300 level or greater) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| General Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Summer Semester Year 3: ___ hours | | | | | | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Fall Semester Year 4: 15 hours | | | | | | | | |
| CS 481 Adv. Computer Architecture | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | Apply for |



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| | | | | | | | | |
|---|---|--------------------------|--------------------------|-----|--|--|--------------------------|-------------|
| CS 4XX Computer Science Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | graduation. |
| Social Science Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| General Elective (300 level or greater) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| General Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| Spring Semester Year 4: 14 hours | | | | | | | | |
| CS 451 Software Engineering | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | <input type="checkbox"/> | |
| Social Science | 3 | <input type="checkbox"/> | <input type="checkbox"/> | "C" | | | | |
| General Elective (300 level or greater) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| General Elective (300 level or greater) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| General Elective | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |

Non-course requirements

Written English Proficiency Test (WEPT)

Met

The School reserves the right to make changes in courses, degree requirements and course schedules without notice.

Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

Graduation Requirements Summary:

| Total Hours (120 minimum) | Totals Hrs at UMKC (30 hours minimum) | Major GPA (2.0 Minimum) | UMKC GPA |
|---------------------------|---------------------------------------|-------------------------|----------|
| | | | |

All students completing an undergraduate education degree must meet the following conditions in order to graduate and be recommended for graduation or certification:

- [list of requirements as stated in the catalog pertaining to minimum GPA, capstone coursework, additional licensure exams, etc.]

Academic Advisor:

Faculty Advisor: