

Major Map: BA Computer Science

Catalog Year: 2011-2012

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. Please note that these degree requirements may change and are in the review process. Please check with your advisor for more information.

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 ²	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 201, Prob Solving & Programming II Lab	1	<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	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 ³	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Life Science or Physical Science Elective ⁴	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 ³	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Life Science or Physical Science Elective ⁴	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 2: ___ hours								
Fall Semester Year: 15 hours								
CS 301, Data Structures	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 ⁵	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Culture Course ⁶	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 3: 15 hours								
CS 304WI Ethics and Professionalism ³	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS 401 Intro to Algorithm Analysis	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS 441 Programming Language Design	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS 4XX Computer Science Elective ⁷	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"/>	
Summer Semester Year 3: ___ hours								
Fall Semester Year 4: 15 hours								
CS 481 Adv. Computer Architecture	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	Apply for graduation.
CS 4XX Computer Science Elective ⁷	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	

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CS 451 Software Architecture	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"		<input type="checkbox"/>	
Social Behavioral Science Elective ⁹	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"/>	
Spring Semester Year 4: <u>14</u> hours							
CS 452 Software Engineering II	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"		<input type="checkbox"/>	
Social & Behavioral Science Elective ⁹	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 (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"/>	

¹Constitution requirement may be satisfied by taking either HIST 101 or 102 or 306 or POLSC 210

²Requirement may be waived if students have an ACT English score of 30; or SAT verbal score of 630; or AP English Lang/Com score of 4.2

³Students must take two courses of Foreign Language or may be exempt if they have two years of high school study

⁴Students must take on Life Science and one Physical Science course with a minimum of one lab in either. Life Science and Physical Science electives can be selected from: Biology, Chemistry, Environmental Science, Geography, Geology, Natural Science, Physical Science or Physics

⁵One Humanities and Fine Arts (HFA) electives is required from the following list of courses: Art, Art History, Conservatory or Theater

⁶A Culture Course focuses on cultural perspectives of an interdependent global environment with such courses as: Art 315, History 201, 202, 206, or 208, Geography 200 or 202, Sociology 103, Political Science 220, Economics 412 or Urban Planning Dev 260.

⁷Computer Science electives are any CS courses offered in the four hundred level with the exception of the required courses shown above.

⁸WEPT or Written English Proficiency Test must be taken before enrolling in CS 304WI

⁹Students must select two courses from two different fields in one of the following courses: Criminal Justice, Geography, Economics, History, Political Science, Psychology, or Sociology

Non-course requirements

Written English Proficiency Test (WEPT)
ETS Proficiency Profile (EPP) exam
Major Field Assessment Test

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: