



## Major Map: BS 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
<b>Fall Semester Year 1: <u>15</u> hours</b>								
CS 101 Problem Solving and Programming	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"/>	
ENGL 110 Introduction to Academic Prose	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
General Elective	2	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Life Science	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 1: <u>16</u> hours</b>								
CS 201 Problem Solving and 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"/>	
MATH 210 Calculus I	4	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
ENGL 225 Intermediate Academic Prose	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Constitution Requirement	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Summer Semester Year 1</b>								
May use summer semester to lighten fall and winter course loads.								
<b>Fall Semester Year 2: <u>15</u> hours</b>								
CS 281 Intro to Computer Architecture	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	Complete WEPT
MATH 220 Calculus II	4	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
COM ST 110 Fundamentals of Effective Speaking	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
PHYS 240 Physics for Engineers	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Spring Semester Year 2: <u>15</u> hours</b>								
CS 282 Assembler Language Programming	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS 441 Programming Languages Design and Implementation	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
PHYS 250 Physics for Engineers	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
MATH 250 Calculus III	4	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Summer Semester Year 2: <u>    </u> hours</b>								
		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
<b>Fall Semester Year: <u>15</u> hours</b>								
CS352 Data Structures and Algorithms	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS 481 Adv. Computer Architecture	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
Social Science Elective	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
General Elective	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"/>	
<b>Spring Semester Year 3: <u>15</u> hours</b>								
		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	



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CS 393 Numerical Analysis	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS 451 Software Architecture	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
STAT 235 Statistics	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	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 394R Applied Probability	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	Apply for graduation.
CS420 or CS421	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS4XX Computer Science Elective	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
Social Science Elective	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
General Elective	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 4: 14__ hours								
CS 431 Intro to Operating Systems	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"			<input type="checkbox"/>	
CS470 or CS471	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"				
CS4XX Computer Science Elective	3	<input type="checkbox"/>	<input type="checkbox"/>	"C"				
General Elective	3	<input type="checkbox"/>	<input type="checkbox"/>					
General Elective	2	<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:**



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**Faculty Advisor:**