



Major Map: Bachelor of Information Technology

Catalog Year: 2010-2011

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								
CS101 Problem Solving and Programming I	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CS191 Discrete Structures I	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
ENGL 110 English I ¹	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
COMST 110 Fund of Effective Speaking & Listening	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 and Programming II	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
ACCT 210 Principles of Accounting	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
Constitution Requirement ²	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
CS291 Discrete Structures II	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
IT 222 Multimedia Production & Concepts	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
Summer Semester Year 1								
May use summer semester to lighten fall and winter course loads.								
Fall Semester Year 2: 16 ___ hours								
CS 281 Intro to Computer Architecture	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
ACCT 211 Managerial Accounting	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"/>	
Life Science or Physical Science Elective ³	4	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
Social Science Elective ⁴	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 2: 15 ___ hours								
CS 352 Data Structures and Algorithms	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	Complete WEPT
PHIL 222 Foundations of Logic and Scientific Methods	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
General Elective	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
ENGL 225 English II	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 2: ___ hours								
		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Fall Semester Year: 15 ___ hours								
CS 431 Introduction to Operating Systems	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
IT 350 Object Oriented Software Development	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
BMA 306 Legal Ethical & Regulatory Environment	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
CS 304WI ⁵	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
Humanities and Fine Arts Elective ⁶	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 3: 15 ___ hours								
CS 441 Programming Language Design & Implementation	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	
IT 321 Intro to Computing Resources Admin	3	<input type="checkbox"/>	<input type="checkbox"/>	C			<input type="checkbox"/>	



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DSOM 326 Operations Management	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	
ECON 202 Introduction to Economics II	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"/>	
Fall Semester Year 4: 16 ___ hours							
CS 470/471 Database Elective ⁷	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	Apply for graduation.
IT 491 Internship ¹⁰	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	
IT Specialty Elective ⁸	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	
Business Elective ⁹	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	
Life Science or Physical Science Elective ³	4	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
Spring Semester Year 4: 12 ___ hours							
IT Specialty Elective ⁸	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"/>	
IT 491 Internship ¹⁰	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	
Business Elective ⁹	3	<input type="checkbox"/>	<input type="checkbox"/>	C		<input type="checkbox"/>	

¹ Requirement 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

² Constitution requirement may be satisfied by taking either HIST 101 or 102 or 306 or POLSC 210

³ Students must take one 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

⁴ Social and Behavioral Science electives can be selected from: Criminal Justice, Geography, Economics, History, Political Science, Psychology, or Sociology

⁵ WEPT or Written English Proficiency Test must be taken before enrolling in CS 304WI

⁶ One Humanities and Fine Arts (HFA) elective is required from the following list of courses: Art, Art History, Conservatory or Theater

⁷ Student may take both CS 470 and 471, but only one is required.

⁸ IT Specialty elective is satisfied by taking a course from one of the following categories: Networking (CS 420, CS 421, or CS 490NA) or Programming (IT 350, CS 423, CS 461, CS 456 or CS 475) or many others

⁹ Business Elective - choose two of the following: MGT 306, MGT 330, FIN 325 or ENT 215)

¹⁰ Students with IT/CS related job experience may petition for course replacement

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: