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. For more information you may go to our website at [www.sce.umkc.edu](http://www.sce.umkc.edu) or the catalog at [http://www.umkc.edu/catalog](http://www.umkc.edu/catalog). Please note this Program of Study is pending final approval by the CSEE faculty.

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.

### First Mathematics: Calculus I & Statistics

<table>
<thead>
<tr>
<th>Critical Course or Benchmark</th>
<th>Course Subject, Number, Title and Academic Plan Benchmarks</th>
<th>CREDIT HOURS</th>
<th>Min Recmd Grade</th>
<th>Additional Critical Tracking Notes</th>
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<tbody>
<tr>
<td></td>
<td>Bold=UMKC General Education Core Requirement</td>
<td><strong>Prerequisites are Required</strong></td>
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<td><strong>Co-Requisite Enrollment Required</strong></td>
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#### Prior to Year 1 (may include summer)

Students must have successfully passed (with a “C” or better) MATH 120: Pre-calculus or a combination of a MATH 110: College Algebra and MATH 125: Trigonometry or have taken four (4) units of high school mathematics including trigonometry as preparation for MATH 210 and preferably before Fall Semester Year 1, but not mandatory.

#### Fall Semester Year 1: 15 hours

- COMP-SCI 101: Problem Solving & Programming I 3 C
- COMP-SCI 191: Discrete Structures I 3 C
- **Anchor I: Reasoning and Values** 3 C-  **SCE 101 preferred**
- **Discourse I: DISC 100 :Reasoning and Values** 3 C-
- Focus B: Scientific Reasoning and Quantitation Analysis- STAT 235: Elementary Statistics required for degree 3 C  **Math Entrance Test Required**

Complete 15 term credit hours
Earn minimum 2.000 term UM GPA

#### Spring Semester Year 1: 17 hours

- **COMP-SCI 201R: Problem Solving & Programming II** 3 C
- **COMP-SCI 201L: Problem Solving & Programming II Lab** 1 C
- COMP-SCI 291: Discrete Structures II 3 C
- Anchor II: Culture & Diversity 3
- Discourse II: DISC 200: Culture & Diversity 3
- MATH 210: Calculus I 4 C  **Math Entrance Test Req**

Complete 14 term credit hours
Complete 29 cumulative credit hours
Earn a minimum 2.000 UM GPA

#### Summer Semester Year 2: ___ hours

Earn a minimum 2.000 cumulative UM GPA
Complete Anchor II and Discourse II

#### Fall Semester Year 2: 15-17 hours

- ACCT 210: Principles of Accounting 3 C
- COMP-SCI 303: Data Structures 3 C
- ECON 202: Introduction to Economics II 3 C
- **Focus A: Arts & Humanities** 3
- Life & Physical Science 4-5

Complete 16 term credit hours
Earn minimum 2.000 cumulative UM GPA
Complete RooWriter Assessment Test

#### Spring Semester Year 2: 15-16 hours

- COMP-SCI 281R: Computer Architecture & Organization 3 C
- INFO-TECH 222: Multimedia Production & Concepts 3 C
- Life & Physical Science 3-4
- **Focus Elective: General Elective** 3
- General Elective 3
## Major Map: Bachelor of Information Technology

**Catalog Year: 2013-2014**

**Fall Semester Year 1: 15 hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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**Fall Semester Year 2: 15 hours**

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**Spring Semester Year 2: 15 hours**

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**Fall Semester Year 3: 15 hours**

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**Spring Semester Year 3: 15 hours**

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**Fall Semester Year 4: 15 hours**

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**Spring Semester Year 4: 15 hours**

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### Major Requirements

- Complete 15 term credit hours
- Complete 60 cumulative credit hours
- Earn minimum 2.000 cumulative UM GPA
- Complete ECON 202, STAT 235, ACCT 210 and COMP-SCI 303 before Fall Semester Year 3.

### Core Requirement

- Apply for graduation

### General Education Requirements

- Constitution requirement may be satisfied by taking one of the following:
  - HIST 101, 102, or 103
  - HIS 101, 102, or 103
  - HIST 101, 102, or 103

### Course Requirements

- All courses must be taken with a grade of C or better.
- All credits must be earned at UMKC.
- Elective credit hours are based upon how many credits are taken in the Life & Physical Sciences.
- All students must take the Major Field Exam after completing 70 credit hours and before applying for graduation.

### Additional Information

- Students with appropriate Computer Science, Information Technology, or Business experience may petition to replace the internship requirement with a three credit hour course.

### Non-course Requirements

- RooWriter Assessment Test

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1. All students must take and/or establish credit for the following General Education Course Requirements: Discourse I, Discourse II, Discourse III, Anchor 1, Anchor 2, Anchor 3, Focus A, Focus B, Focus C and Focus D for a total of 30 credit hours of General Education. See General Education Requirements list for appropriate courses. Go to [www.umkc.edu/core/courses](http://www.umkc.edu/core/courses).

2. Enrollment is restricted. Students must pass the online Math Entrance Test prior to enrolling. See [http://cas.umkc.edu/math/](http://cas.umkc.edu/math/) for more details.

3. Constitution requirement may be satisfied by taking either HIST 1100 or HIST 1101 or POLSC 210.

4. Select either a Life Science or a Physical Science and at least one with a lab. Choices are: Biology, Chemistry, Environmental Science, Geo-Science or Physics. General elective credit hours are based upon how many credits are taken in the Life Science or Physical Sciences.

5. All UMKC students must take the ETS-PP or MAP Assessment Test and CS/IT majors must take the Major Field Exam after completing 70 credit hours and before applying for graduation. For details go to [http://cas.umkc.edu/writingcenter](http://cas.umkc.edu/writingcenter)/StudentResources/WEPT.asp.

6. IT Specialty electives are satisfied by taking two courses from the following categories: Networking (COMP-SCI 420, INFO-TECH 426 or INFO-TECH 427) or Programming (COMP-SCI 375, COMP-SCI 423, COMP-SCI 456, COMP-SCI 457, or COMP-SCI 461).

7. CS/IT Electives can be any COMP-SCI/INFO-TECH course that is at the 300 level or above that is not a required course. See advisor for details.

8. Students with appropriate Computer Science, Information Technology or Business experience may petition to replace the internship requirement with a three credit hour course.

### Total Hours

- Total: 120 hours
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:**

<table>
<thead>
<tr>
<th>Total Hours (120 minimum)</th>
<th>Totals Hrs at UMKC (30 hours min)</th>
<th>Major GPA (2.0 min)</th>
<th>UMKC GPA (2.0 min)</th>
</tr>
</thead>
</table>

Academic Advisor: ____________________________ Date: ____________________________

Faculty Advisor: ____________________________ Date: ____________________________