



# Major Map: Civil Engineering

Catalog Year: \_\_\_\_\_

**STUDENT NAME:** \_\_\_\_\_

**ID #:** \_\_\_\_\_

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. <http://sce.umkc.edu/undergraduate/civil-engineering.asp>

| Course Subject and Title<br>Pre- and Co-requisites are in parentheses after class listing. | Hrs. | School Code & Semester | Transfer Course          | Min. Grade | Substitute Course | Final Grade | Pre-requisites met       | Additional Critical Tracking Notes    |
|--|------|------------------------|--------------------------|------------|-------------------|-------------|--------------------------|---------------------------------------|
| <b>Fall Semester Year 1: 15 hours</b>  |      |                        |                          |            |                   |             |                          |                                       |
| MATH 210 CALCULUS I  | 4    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| CHEM 211/211L GEN CHEM W/LAB   | 5    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| ME 130 ENGR GRAPHICS W/LAB   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| SCE 101 COMPUTING, ENGINEERING, & SOCIETY  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
| <b>Spring Semester Year 1: 15 hours</b>  |      |                        |                          |            |                   |             |                          |                                       |
| MATH 220 CALCULUS II (MATH 210)  | 4    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| PHYS 240 ENGINEERING PHYSICS I (Pre-/Co-req MATH 210)                                      | 5    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| ENGL 225 ENGLISH COMPOSITION II<br><i>Under Review</i>                                     | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> | Can do WEPT after ENGL 225 completed. |
| COMST 110 FNDMTLS EFF SPKG & LSTNG<br><i>Under Review</i>                                  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
| <b>Summer Semester Year 1</b>  |      |                        |                          |            |                   |             |                          |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
| <b>Fall Semester Year 2: 18 hours</b>  |      |                        |                          |            |                   |             |                          |                                       |
| ME270 ENGR ANALYS I / MATH250 CALC III (MATH 220)  | 4    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| PHYS 250 ENGINEERING PHYSICS II (PHYS 240, Pre-/Co-req MATH 220)                           | 5    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| CE 275 STATICS (PHYS 240, Pre-/Co-req MATH 250/ME270)                                      | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| ME 219 COMPUTER PROG FOR ENGRS (MATH 210)  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| CE 211 THE ENGINEERING ENTERPRISE (ME 111)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
| <b>Spring Semester Year 2: 16 hours</b>  |      |                        |                          |            |                   |             |                          |                                       |
| ME 272 ENGR ANALYS II / MATH 345 ORD DIFFERENTIAL EQS (MATH 250/ME 270)                    | 4    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| CE 276 STRENGTH OF MATERIALS (CE 275)  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| ME 285 DYNAMICS (CE 275)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| ME 299 THERMODYNAMICS (MATH 220, PHYS 240)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
| ME 220 ELECTRIC CIRCUITS (ME 219, PHYS 250, Pre-/Co-req MATH 345/ME 272)                   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
| <b>Summer Semester Year 2: ___ hours</b>   |      |                        |                          |            |                   |             |                          |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                       |



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|--|------|------------------------|--------------------------|------------|-------------------|-------------|--------------------------|------------------------------------|
| Fall Semester Year 3: <u>  16  </u> hours  |      |                        |                          |            |                   |             |                          |                                    |
| CE 319 ENGR COMPUTATION & STATISTICS (ME 219, MATH 220)                                    | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 321 STRUCTURAL ANALYSIS (CE 276)  | 4    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 351 FLUID MECHANICS (ME 285, MATH 345/ME 272)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 335 SOIL MECHANICS (CE 276, CHEM 211/211L, Machine Shop Safety)                         | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 311 THE TECHNICAL ENTREPRENEUR (CE 211)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                    |
| Spring Semester Year 3: <u>  15  </u> hours  |      |                        |                          |            |                   |             |                          |                                    |
| CE 323 STEEL DESIGN (CE 321)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> | Apply for graduation.              |
| CE 342 WATER AND WASTEWATER (CHEM 211/211L, CE 351)  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 357 ENGINEERING HYDRAULICS (CE 351)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 378WI CE MATERIALS (CE 276, CHEM 211/211L, WEPT Passed, Machine Shop Safety)            | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 467 INTRO TO CONSTRUCTION MGMT (CE 335)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| Summer Semester Year 3: <u>      </u> hours  |      |                        |                          |            |                   |             |                          |                                    |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                    |
|  |      |                        | <input type="checkbox"/> |            |                   |             | <input type="checkbox"/> |                                    |
| Fall Semester Year 4: <u>  17  </u> hours  |      |                        |                          |            |                   |             |                          |                                    |
| CE 411 SYSTEM DESIGN I (CE 357, CE 467, & one of the following: CE 323 or CE 422WI)        | 2    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 422WI REINFORCED CONCRETE (CE 321, WEPT Passed)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 481 HIGHWAY & TRAFFIC ENGINEERING (ME 285)  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 497 ENGINEERING HYDROLOGY (CE 319, CE 351)  | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 4XX ELECTIVE*   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 4XX ELECTIVE*   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| Spring Semester Year 4: <u>  15  </u> hours  |      |                        |                          |            |                   |             |                          |                                    |
| CE 412 SYSTEM DESIGN II (CE 411)   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 4XX ELECTIVE*   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CE 4XX ELECTIVE*   | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| GEN EDUC, 2XX or higher ENGL, COMMST, PHIL OR FRGN LANG <i>Under Review</i>                | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |
| CONST REQ: POLSCI 210, HIST 101/102/360R <i>Under Review</i>                               | 3    |                        | <input type="checkbox"/> | C          |                   |             | <input type="checkbox"/> |                                    |

**\*NOTE: TWO OF THE FOUR CE ELECTIVES MUST BE TECHNICAL. ALL CE ELECTIVES MUST BE APPROVED BY A FACULTY ADVISOR.**

**Non-course requirements**

- Written English Proficiency Test (WEPT)
- Educational Testing Service Proficiency Profile (EPP)
- Three (3) Applied Skills Electives from the following five:

**Met**

- 
- 
- MATE 111A Machine Shop Safety (required)
- MATE 111A Lathe
- MATE 111A Milling Machine
- WELD 100 Introduction to Welding
- Surveying

**List of School Codes:**

- K=UMKC                      R=MS&T (UM Rolla)
- M=UM Columbia            S=UMSL (St. Louis)

- 1. \_\_\_\_\_ 2. \_\_\_\_\_
- 3. \_\_\_\_\_ 4. \_\_\_\_\_



# Major Map: Civil Engineering

Catalog Year: \_\_\_\_\_

STUDENT NAME: \_\_\_\_\_

ID #: \_\_\_\_\_

### Graduation Requirements Summary:

| Total Hours (126 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:

- UMKC Exit Exams:** Required for graduation, the Educational Testing Service Proficiency Profile (EPP) is scheduled and administered by Testing Services. Sign up at <http://www.umkc.edu/exitexams/>. If you have any problems with, or questions about, scheduling your exams, please contact [testingservices@umkc.edu](mailto:testingservices@umkc.edu) or call (816) 235-5820.
- Senior Exit Interview:** You will receive an e-mail to schedule an exit interview with the Department. This is REQUIRED to graduate and will have a survey attached which you should fill out and bring to the exit interview. The interview will take about one hour.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Academic Advisor: \_\_\_\_\_

Date: \_\_\_\_\_

Faculty Advisor/Representative: \_\_\_\_\_

Date: \_\_\_\_\_