Chemistry Major, B.S. in Ed. Degree (41-485)

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

### Chemistry Major, B.S. in Ed. Degree - 120 hours

**Freshman Year - Fall Semester**
- BIOL 1110 Prin. of Biology or BIOL 1111 Plant Biology* 3-4
- CHEM 1311 General Chemistry I** 5
- CTE 2000 Technology & Society 3
- ENGL 1020 Composition I 3
- Semester Total 14-15

**Freshman Year - Spring Semester**
- BIOL 1005 Introduction to Environ. Sciences 3
- CHEM 1132 General Chemistry II 5
- ENGL 1030 Composition II 3
- HIST 1350 or 1351 History of the United States 3
- Semester Total 17

**Sophomore Year - Fall Semester**
- CHEM 3341 Organic Chemistry I 4
- EDFL 2100 Foundations of Education 2
- FLDX 2150 Introductory Field Experience 1
- EDFL 2240 Educational Psychology 3
- MATH 1151 Calculus & Analytic Geometry I** 5
- Semester Total 15

**Sophomore Year - Spring Semester**
- CHEM 1132 Quantitative Analysis 3
- EASC 1004 Introduction to the Sciences: Geology 4
- EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of the Exceptional Child 2
- PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123) 4-5
- POLS 1510 American Government 3
- Semester Total 16-17

**Junior Year - Fall Semester**
- CHEM 3111 Intermediate Inorganic Chemistry*** 4
- PSY 4230 Psychology of Adolescence 3
- Major Elective# 3
- General Education 6
- Semester Total 16

**Junior Year - Spring Semester**
- CHEM 4531 or 4532 Physical Chemistry*** 4
- EDFL 4210 Teaching of Reading in Secondary Schools 2
- EDFL 4300 Educational Measurement & Evaluation 2
- General Education 6
- Semester Total 14

**Senior Year - Fall Semester**
- CHEM 3421 Intermediate Biochemistry 3
- CHEM 4050 Science Teaching Methods 3
- EDFL 3500 Secondary Teaching & Behavioral Management 3
- FLDX 3550 Practicum in Secondary Instruction 1
- Major Elective# 1-2
- General Education 3
- Semester Total 14-15

**Senior Year - Spring Semester+**
- CHEM 4080 Secondary Science Teaching 3
- FLDX 4595 Student Teaching Secondary I 5
- ICAP 4468 Student Teaching Secondary II 4
- Semester Total 12

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- *Students completing the Unified Science Certification requirements should choose BIOL 1111 instead of BIOL 1110. Meet with a departmental advisor to learn more about Unified Science Certification.

- **Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.

- *** Upper level chemistry courses offered variably. Check with the department for actual offerings.

- #See catalog for major electives and Unified Science Certification requirements. Number of major electives ranges from 4-6 credit hours and will depend on biology and physics choices.

- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.

- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.

- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.