For students starting in Fall 2016

B.Sc. Science Teaching Major - Chemistry Concentration & Secondary Education

## Required Courses by Practicum Year

### Practicum Year 1 – Fall
- EDU 115: Intro. to Professional Practice ³
- ILT 101: Info. Literacy Critical Thinking ¹

### Practicum Year 2 – Fall
- EDU 215: Reflective Practicum (full year) ⁴

### Practicum Year 3 – Fall
*NOTE:*
The English Exam for Teacher Certification must be passed prior to commencing the 3rd year practicum. We strongly encourage students to attempt the exam during their 1st year.

### Practicum Year 1 – Winter
- EDU 200: Orientation to Teaching ²

### Practicum Year 2 – Winter
- EDU 215: Reflective Practicum (full year) ⁴

### Practicum Year 3 – Winter
- EDU 275: Managing Classrooms ³
- EDU 301: Educational Psychology ⁴
- EDU 309: Effective Teach. Meth. (sec) ⁵
- EDU 406: Student Centered Evaluation (sec) ³
- EDU 329: Professional Practice (6 weeks) ⁶

### Other Required Education Courses

#### One of the following:
- EDU 102: Philosophy of Education ³
- EDU 103: History of Education ³

#### All of the following:
- EDU 285: The Reading Process ³
- EDU 305: Social Justice & Anti-Discrimination Ed ³
- EDU 322: Integrating Technology ³

#### Major in Chemistry – Discipline Courses

#### All of the following:
- CHM 121: Inorganic Chemistry I ³
- CHM 131: Physical Chemistry I (+ Lab CHL 131) ³
- CHM 141: Analytical Chemistry (+ Lab CHL 141) ³
- CHM 111: Organic Chemistry I (+ Lab CHL 111) ³
- CHM 211: Organic Chemistry II (+ Lab CHL 211) ³

#### Three of the following (no required labs):
- CHM 311: Organic Chemistry III ³
- CHM 221: Trans. Metal and Bioinorganic Chem. ³
- CHM 222: Elements and Minerals ³
- CHM 231: Physical Chemistry II ³
- CHM 241: Environmental Chemistry I ³
- CHM 242: Environmental Chemistry II ³
- CHM 341: Chemical Spectroscopy ³

#### Other Required Education Courses

#### One of the following:
- EDU 204: Indigenous Education ³
- EDU 205: Education, Colonialism, & De-Colon. ⁷
- EDU 211: Intro. to Young Adult Literature ³
- EDU 220: Linguistic Diversity ³
- EDU 303: Sociology of Education ³
- SLP 399: International Situated Learning ³

### Major in Chemistry – Discipline Courses

#### All of the following:
- 9 credits from Biochemistry plus appropriate labs: BCH210 - General Biochemistry; BCH311 – Proteins; BCH312 - Lipids and Biomembranes ³
- 9 credits Biology plus appropriate labs: BIO 196 – Intro. Cellular & Molecular Bio.; BIO 201 – Cellular and Molecular Biology; and BIO/BIL 208 - Genetics & Lab ³
- 6 credits of Physics: PHY 101 (Statistical Methods in Experimental Science) and PHY 207 (Thermal & Fluid Physics) ³

### Consult the academic calendar for the pre-requisites and co-requisites for any courses in disciplines other than Education

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¹ Co-requisite ILT 101
² Pre-requisite EDU 115 or 116
³ Pre-requisite EDU 200
⁴ Pre-requisite EDU 200 or EDU 201 and EDU 215 or EDU 216; these may be co-requisites with permission
⁵ Pre-requisites EDU 116 and EDU 216 or EDU 115 and EDU 215; 3rd year standing
⁶ Pre-requisite EDU 215
⁷ One 100-level course in Education, Sociology, or History