

**Elgin Community College & Aurora University  
BS Chemistry Secondary Education 2 + 2**

**First Year at ECC**

**First Semester**

| <b>ECC</b>                             | <b>AU</b>  | <b><u>Second Semester</u></b><br><b>ECC</b> | <b>AU</b>  |
|--|--|---|--|
| ENG 101 English Composition I (3)      | ENG 1000 Introduction to Academic Writing (4)          | ENG 102 English Composition II (3)          | English Elective (4)   |
| MTH 190 Calculus I (5)                 | MTH 2210 Calculus (4, Quant and Formal Reasoning)      | MTH 210 Calculus II (5)                     | MTH 2220 Calculus II (4)   |
| CHM 142 General Chemistry I (5)        | CHM 1310/Z General Chemistry I (4, Scientific Inquiry) | CHM 143 General Chemistry II (5)            | CHM 1320/Z General Chemistry II (4)                                  |
| PSY 100 Introduction to Psychology (3) | PSY 1100 General Psychology (4, Human Inquiry)         | APS 101 Earth Science (4)                   | NSM 1400 Earth and Space Science (4, Scientific Inquiry)             |
| EDN 100 Introduction to Education (3)  | EDU 2100 Foundations of Teaching and Learning          | EDN 204 Exceptional Individual (3)          | SPED 2120 Characteristics/Identification of Disabilities and the Law |

**Second Year at ECC**

**Third Semester**

**Fourth Semester**

| <b>ECC</b>  | <b>AU</b>   | <b>ECC</b>                        | <b>AU</b>  |
|---|---|-----------------------------------|--|
| CMS 101 Fundamentals of Speech (3)                                | COM Elective (4)  | CHM 235 Organic Chem II (5)       | CHM 2420/Z Organic Chm II (4)                        |
| CHM 234 Organic Chemistry I (5)                                   | CHM 2410/Z Organic Chemistry I (4)                            | PHY 211 Engineering Physics (5)   | PHY 2240(Z) Physics I (4, Calc based)                |
| PSY 212 Child Psychology (3)<br><b>OR</b> PSY 213 Adolescence (3) | PSY 3350 Child and Adolescent Development OR PSY Elective (4) | Humanities Gen Ed (3)             | Elective (3-4)                                       |
| BIO 113 Molecular & Cellular Biology (4)                          | BIO 1210/Z General Biology I/Lab (4)                          | Social Science Gen Ed (3)         | General Education (4, Cultural Literacy)             |
| Fine Arts Gen Ed (3)  | General Education (4, Artistic Literacy)                      | PSY211 Educational Psychology (3) | EDU 2260 Learning Theories and Applications K-12 (4) |

**Third Year at Aurora University**

**Fifth Semester**

**Sixth Semester**

|  |   |
|--|---|
| IDS 3500 Junior Mentoring (0.5)            | IDS 3550 Junior Mentoring (0.5)   |
| CHM 3510 Physical Chemistry (3)            | CHM 3520 Physical Chemistry II (3)  |
| CHM 3510Z Physical Chemistry I Lab (1)     | CHM 3650 Instr. Methods of Analysis (3)                                   |
| CHM 2450 Analytical Chemistry (3)          | CHM 3650Z Instr. Methods of Analysis Lab (1)                              |
| CHM 2450Z Analytical Chemistry Lab (1)     | EDU 3620 Teach/Assess Diverse Learners in Secondary Classroom (4)         |
| EDU 3720 Reading Across the Curriculum (4) | PHY 2220/Z General Physics II/Lab or PHY 2250/Z Physics II/Laboratory (4) |
| BIO 1220/Z General Biology II/Lab (4)      |   |

**Fourth Year at Aurora University**

**Seventh Semester**

**Eighth Semester**

|   |                                       |
|---|---------------------------------------|
| CHM 3570 Inorganic Chemistry of Materials (4)                 | EDU 4750 Student Teaching (13)        |
| CHM 3555 Biochemistry (3)                                     | EDU 4760 Student Teaching Seminar (2) |
| CHM 3555Z Biochemistry Lab (1)                                |                                       |
| CHM 4500 Chemical Research Methods (1)                        |                                       |
| SPED 4620 Collaboration Models for Inclusion (4)              |                                       |
| EDU 3200 Content Area Methods for the Secondary Classroom (4) |                                       |