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| **Catalog Year 2019-2020**  BA/BS Secondary Education  Biology (30cr), Chemistry (20cr) | ***(For internal use only)***  *No change*  *UCC proposal* |
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A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is only one strategy. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Electives, and university requirements (see pg.2) are based on Catalog Year.

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| **Course Subject and Title** | **Cr.** | **Min.**  **Grade** | **\*GE,**  **UU or UM** | **\*\*Sem. Offered** | | **Prerequisite** | | | **Co Requisite** | | | |
| Semester One | | | | | | | | | | | | |
| GE Objective 1: ENGL 1101 Writing and Rhetoric I | 3 | C- | GE | | F,S,Su | | Appropriate placement score | |  | | | |
| GE Objective 4 | 3 | C- | GE | | F,S,Su | |  | |  | | | |
| GE Objective 4 | 3 | C- | GE | | F,S,Su | |  | |  | | | |
| GE Objective 5: BIOL 1101 & BIOL 1101L Biology I and Lab | 4 | C | GE | | F,S,Su | | Placement into Math 1108 | |  | | | |
| Free Electives | 2 | C- |  | |  | |  | |  | | | |
| Total | 15 |  |  | |  | |  | |  | | | |
| Semester Two | | | | | | | | | | | | |
| GE Objective 1: ENGL 1102 Writing and Rhetoric II | 3 | C- | GE | | F,S,Su | | ENGL 1101 or equivalent | |  | | | |
| GE Objective 2: COMM 1101 Fundamentals of Oral Comm | 3 | C- | GE | | F,S,Su | |  | |  | | | |
| GE Objective 7 or 8 | 3 | C- | GE | | F, S, Su | | |  |  | | | |
| BIOL 1102 & BIOL 1102L Biology II and Lab | 4 | C |  | | F,S | | BIOL 1101 | | BIOL 1102L | | | |
| Free Electives | 2 | C- |  | |  | |  | |  | | | |
| Total | 15 |  |  | |  | |  | |  | | | |
| Semester Three | | | | | | | | | | | | |
| GE Objective 3: MATH 1160 Applied Calculus | 3 | C | GE | | F,S,Su | | Appropriate placement score | |  | | | |
| GE Objective 5: CHEM 1111 &1111L Gen Chem I and Lab | 5 | C | GE | | F,S,Su | | MATH 1147 or Equivalent | | CHEM 1111L | | | |
| GE Objective 9: EDUC 2204 Families, Community, Culture | 3 | C | GE | | F,S,Su | |  | |  | | | |
| BIIOL 2209 & BIOL 2209 L General Ecology and Lab | 4 | C |  | | F,S | | BIOL 1101, BIOL 1102 | | BIOL 2209L | | | |
| EDUC 2201 Developmental and Individual Differences | 3 | C |  | | F,S,Su | |  | |  | | | |
| Total | 18 |  |  | |  | |  | |  | | | |
| Semester Four | | | | | | | | | | | | |
| GE Objective 6: Recommend EDUC 1110 Education and Schooling in US | 3 | C- | GE | | F,S | |  | |  | | | |
| Objective 6 | 3 | C- | GE | | F,S,Su | |  | |  | | | |
| CHEM 1112 & CHEM 1112L General Chemistry II and Lab | 4 | C |  | | F,S,Su | | MATH 1147 or Equivalent | | CHEM 1112L | | | |
| EDUC 3308 Fdns of Ed Knowledge, Planning & Assessment | 3 | C | UU/UM | | F, S | | Admission to Teacher Education | | | |  | |
| Free Electives | 2 | C- |  | |  | |  | |  | | | |
| Total | 15 |  |  | |  | |  | |  | | | |
| Semester Five | | | | | | | | | | | | |
| BIOL 2206 & BIOL 2207 Cell Biology and Lab | 4 | C |  | | F,S | | BIOL 1101, BIOL 1102, CHEM 1111, CHEM 1111L, CHEM 1112, CHEM 1112L | | | | | CHEM 1112, CHEM 1112L |
| BIOL 4413 Biology Teaching Methods  OR EDUC 3331 Science Methods for Teachers | 3 | C | UU/UM | |  | |  | |  | | | |
| Approved Electives in Chemistry | 3 |  |  | |  | |  | |  | | | |
| CHEM 4400 Practicum in Physical Science | 2 | C | UU/UM | |  | |  | |  | | | |
| Free Electives | 3 | C- |  | |  | |  | |  | | | |
| Total | 15 |  |  | |  | |  | |  | | | |
| Semester Six | | | | | | | | | | | | |
| EDUC 4401 Content Area Literacy | 3 | C | UU/UM | | F, S | | Admission to Teacher Education | | | |  | |
| Approved Electives in Chemistry | 4 |  |  | |  | |  | | | |  | |
| Free Electives | 7 | C- |  | |  | |  | |  | | | |
| Total | 14 |  |  | |  | |  | |  | | | |
| Semester Seven | | | | | | | | | | | | |
| CHEM 2211 & 2213 Inorganic Chemistry I and Lab | 4 | C | UU/UM | | F | | CHEM 3301 | |  | | | |
| EDUC 3302 Motivation and Management | 3 | C | UU/UM | | F,S,SU | | EDUC 2201, 2204, 3308 | | EDUC 3311, EDUC 4408 | | | |
| EDUC 3311 Instructional Technology | 3 | C | UU/UM | | F, S | | IC3 Key Appl Exam; EDUC 3308 | | EDUC 4408 | | | |
| EDUC 4408 Pre-Internship Field Experience Seminar | 3 | C | UU/UM | | F, S | | EDUC 3308 | | EDUC 3311 | | | |
| SPED 3350 Creating Inclusive Classrooms | 3 | C | UU/UM | | F, S | | Admission to Teacher Education | | | EDUC 4408 or MUSC 3338 | | |
| Total | 16 |  |  | |  | |  | |  | | | |
| Semester Eight | | | | | | | | | | | | |
| EDUC 4496 Secondary Ed Student Teaching Internship | 12 | S | UU/UM | |  | | All coursework; Praxis II exams | |  | | | |
| Total | 12 |  |  | |  | |  | |  | | | |
| \*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major  \*\*See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.) | | | | | | | | | | | | |

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| **2019-2020 Major Requirements** | | **CR** | **GENERAL EDUCATION OBJECTIVES**  **Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | | | | **36 cr. min** | |
| **MAJOR REQUIREMENTS** | | **33** | 1. Written English (6 cr. min) ENGL 1101 | | | | 3 | |
| ***Secondary Education classes*** | |  | ENGL 1102 | | | | 3 | |
| EDUC 2201 Developmental and Individual Differences | | 3 | 2. Spoken English (3 cr. min) COMM 1101 | | | | 3 | |
| EDUC 2204 Families Community Culture (counted in GE obj. 9) | | | 3. Mathematics (3 cr. min) MATH 1160 **OR** MATH 1153 | | | | 3 | |
| EDUC 3302 Motivation and Management | | 3 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** | | | | | |
| EDUC 3308 Fdns of Ed Knowledge, Planning and Assessment | | 3 |  | | | |  | |
| EDUC 3311 Instructional Technology | | 3 |  | | | |  | |
| EDUC 4401 Content Area Literacy | | 3 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** | | | | | |
| EDUC 4408 Pre-Internship Field Experience Seminar | | 3 | CHEM 1111 & CHEM 1111L General Chemistry I and Lab | | | | 5 | |
| EDUC 4496 Secondary Education Student Teaching Internship | | 12 | BIOL 1101 & BIOL 1101L Biology I and Lab | | | | 4 | |
| SPED 3350 Creating Inclusive Classrooms | | 3 |  | | | |  | |
|  | |  | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** | | | | | |
| ***Biology 30 credit Endorsement*** | | **19** |  | | | |  | |
| BIOL 1101 & BIOL 1101L Biology I and Lab (Counted in GE 5) | | |  | | | |  | |
| BIOL 1102 & BIOL 1102L Biology II and Lab | | 4 | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** | | | | | |
| BIOL 2206 & BIOL 2207 Cell Biology and Lab | | 4 | 7. Critical Thinking | | | |  | |
| BIOL 2209 & BIOL 2209L General Ecology and Lab | | 4 | 8. Information Literacy | | | |
| BIOL 4413 Biology Teaching Methods  **OR** EDUC 3331 Science Methods for Teachers | | 3 | 9. Cultural Diversity **(1 course; 3 cr. min)** | | | | | |
| EDUC 2204 Families Community Culture | | | | 3 | |
| CHEM 1111 & CHEM 1111L General Chemistry I and Lab (Counted in GE 5) | | | General Education Elective to reach 36 cr. min. **(if necessary)** | | | | | |
| CHEM 1112 & CHEM 1112L General Chemistry II and Lab | | 4 |  | | | |  | |
| MATH 1160 **OR** MATH 1153 (Counted in GE 3) | | | **Total GE** | | | | **39** | |
|  | |  | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  *http://coursecat.isu.edu/undergraduate/programs/* | | | | | |
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| ***Chemistry 20 credit Endorsement*** | ***13*** | |  | | | | | |
| CHEM 1111 & CHEM 1111L General Chemistry I (Counted in GE 5) | | |
| CHEM 1112 & 1112L General Chemistry II (Counted in Major Requirements) | | |
| CHEM 2211 & 2213 Inorganic Chemistry I and Lab | | 4 | **MAP Credit Summary** | | | | **CR** | |
| CHEM 4400 Practicum in Physical Science | | 2 | Major | | | | 65 | |
| General Education | | | | 39 | |
| Approved Electives in Chemistry | | 7 | Upper Division Free Electives to reach 36 credits | | | | 0 | |
|  | | | Free Electives to reach 120 credits | | | | 16 | |
|  | |  | TOTAL | | | | 120 | |
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|  | |  | **Graduation Requirement Minimum Credit Checklist** | | | **Confirmed** | | |
|  | |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | | |  | | |
|  | |  | Minimum 15 cr. Upper Division in Major (0 cr. Associate) | | |  | |  |
|  | |  | Minimum 36 cr. Upper Division Overall (0 cr. Associate) | | |  | |  |
|  | |  | Minimum of 120 cr. Total (60 cr. Associate) | | |  | |  |
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| **Advising Notes** | | | ***MAP Completion Status (for internal use only)*** | | | | | |
| Teacher education programs are admission based programs and require a formal application to the College of Education. Minimum GPA 3.0; Passing scores on the Praxis Core Academic Skills for Educators Exam; Background check | | |  | *Date* | | | | |
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| *CAA or COT:* | 8.16.2019jh | | | | |
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| [edadvise@isu.edu](mailto:edadvise@isu.edu) | | | **Complete College American Momentum Year**  **Math and English course in first year**  **9 credits in the Major area in first year**  **15 credits each semester (or 30 in academic year)**  **Milestone courses** | | | | | |
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|  | | | Form Revised 7.18.2019 | | | | | |

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