

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is an efficient strategy only. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Elective, and university requirements (see pg.2) are based on Catalog Year.

Catalog Year 2018-2019

BA/BS Secondary Education

Chemistry Single Subject Endorsement

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Subject and Title** | **Cr.**  | **Min.** **Grade** | **\*GE,** **UU or UM** | **\*\*Sem. Offered** | **Prerequisite** | **Co Requisite** |
| Semester One |
| GE Objective 1: ENGL 1101 English Composition | 3 | C | GE | F, S, Su | Appropriate placement score |  |
| GE Objective 3: MATH 1160 (or 1170 for 4 credits) | 3 | C | GE | F, S, Su | Appropriate placement score |  |
| GE Objective 4: | 3 |  | GE | F, S, Su |  |  |
| GE Objective 6: | 3 |  | GE | F, S, Su |  |  |
| GE Objective 9: EDUC 2204 Families, Communities, Culture | 3 | C | GE | F, S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Two |
| GE Objective 1: ENGL 1102 Critical Reading and Writing | 3 | C | GE | F, S, Su | ENGL 1101 or equivalent |  |
| GE Objective 2: COMM 1101 Principles of Speech | 3 | C | GE | F, S, Su |  |  |
| GE Objective 5: CHEM 1111/L General Chemistry with Lab | 5 | C | GE | F, S, Su | MATH 1143, 1147 or equivalent |  |
| GE Objective 6: | 3 |  | GE | F, S |  |  |
|  Total | 14 |  |  |  |  |  |
| Semester Three |
| GE Objective 5: PHYS 1111 General Physics I | 3 |  | GE | F | MATH 1143, 1147 or equivalent |  |
| EDUC 2201: Development & Individual Differences | 3 | C |  | F, S, Su | 26 cr.; 2.75 GPA; ENGL 1101/1101P |  |
| EDUC 2215: Using Technology in a Digital World | 3 | C |  | F, S, Su |  |  |
| CHEM 1112/L General Chemistry II with Lab  | 4 |  | GE | F, S, Su | CHEM 1111/L; MATH 1143, 1147 or equivale |  |
| GE Objective 4: | 3 |  | GE | F, S, Su |  |  |
|  Total | 16 |  |  |  |  |  |
| Semester Four |
| EDUC 3301: Inquiring, Thinking, and Knowing | 3 | C | UM | F, S, Su | EDUC 2201, 2204; Adm. to TE |  |
| EDUC 3308: Foundations of Ed Knowledge, Plan & Assess | 3 | C | UM | F, S | Adm. to TE; Fieldwork Placement Plan |  |
| CHEM 2232 Quantitative Analysis | 2 | C |  | S | CHEM 1112/1112L; MATH 1160 or 1170 | CHEM 2234 |
| CHEM 2234 Quantitative Analysis Lab | 2 | C |  | S | CHEM 1112/1112L | CHEM 2232 |
| PHYS 1112 General Physics II | 3 |  |  | S | MATH 1143 or 1147; PHYS 1111 |  |
| Approved CHEM Electives | 4 | C |  | F, S | Refer to Catalog |  |
|  Total | 17 |  |  |  |  |  |
| Semester Five |
| EDUC 4401 Content Area Literacy | 3 | C | UM | F, S | Adm. to TE |  |
| CHEM 3301 Organic Chemistry I | 3 | C | UM | F | CHEM 1112/1112L; 3303 | CHEM 3303 |
| CHEM 3303 Organic Chemistry I Lab | 1 | C | UM | F | CHEM 3301 |  |
| GE Objective 7/8: | 3 |  | GE | F, S, Su |  |  |
| CHEM 3331 Instrumental Analysis | 2 | C | UM | F | CHEM 2232/2234 |  |
| CHEM 3341 Topics in Physical Chemistry I | 3 | C | UM | F | CHEM 1112/1112L; MATH 1160/1170; PHYS 1112 or 2212 |
|  Total | 15 |  |  |  |  |  |
| Semester Six |
| CHEM 3302 Organic Chemistry II | 3 | C | UM | S | CHEM 3301 | CHEM 3304 |
| CHEM 3304 Organic Chemistry Lab II | 1 | C | UM | S | CHEM 3303 | CHEM 3302 |
| CHEM 3334 Instrumental Analysis Lab | 2 | C | UM | S | CHEM 2232/2234, 3331 |  |
| CHEM 3342 Topics in Physical Chemistry II | 3 | C | UM | S | CHEM 3341 |  |
| Approved CHEM Electives | 3 | C |  |  |  |  |
| CHEM 4400 Practicum in Physical Science | 2 |  | UM | D | Permission of Chem. Chair |  |
|  Total | 14 |  |  |  |  |  |
| Semester Seven |
| EDUC 3302: Classroom Motivation and Management | 3 | C | UM | F, S, Su | Adm. to TE; EDUC 2201, 2204, 3301, 3308 | EDUC 3311, 4408 |
| EDUC 3311: Instructional Technology | 3 | C | UM | F, S | Adm. to TE; EDUC 2215, 3308 | EDUC 4408 |
| EDUC 4408: Pre Intern Field Exp. Seminar | 3 | C | UM |  | Adm. to TE; EDUC 3308 | EDUC 3311 |
| SPED 3350: Creating Inclusive Classrooms | 3 | C | UM |  | Adm. to TE | EDUC 4408 |
| CHEM 2211 Inorganic Chemistry I | 3 | C |  | F | CHEM 3301 |  |
|  Total  | 15 |  |  |  |  |  |
| Semester Eight  |
| EDUC 4496 Student Teaching | 14 | C | UM | F, S |  |  |
|  Total  | 14 |  |  |  |  |  |
| \*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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| **2018-2019 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **82** | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| **Professional Education Core** | **38** |  ENGL 1102 | 3 |
| EDUC 2201 Development and Individual Differences | 3 | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| EDUC 2204 Families, Community, Culture (3 counted in GE) | 3. Mathematics (3 cr. min) MATH 1160 (or 1170) | 3 |
| EDUC 2215 Using Technology in a Digital World | 3 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** |
| EDUC 3301 Inquiring, Thinking, Knowing | 3 |  |  |
| EDUC 3302 Motivation and Management | 3 |  |  |
| EDUC 3308 Found of Educational Knowledge, Plan & Assess | 3 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** |
| EDUC 3311 Instructional Technology | 3 | CHEM 1111/L | 5 |
| EDUC 4408 Pre-Internship Field Experience Seminar | 3 | PHYS 1111 | 3 |
| EDUC 4496 Student Teaching | 14 |  |  |
| SPED 3350 Creating Inclusive Classrooms | 3 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** |
| **Secondary Education Core** | **3** |  |  |
| EDUC 4401 Content Area Literacy | 3 |  |  |
| **Chemistry Endorsement Total** | **38** | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** |
| CHEM 1111/L General Chemistry I with Lab (5 counted in GE) | 7. Critical Thinking |  |
| CHEM 1112/L General Chemistry II with Lab | 4 | 8. Information Literacy  |
| CHEM 2211 Inorganic Chemistry | 3 | 9. Cultural Diversity **(1 course; 3 cr. min)** |
| CHEM 2232 Quantitative Analysis | 2 | EDUC 2204 | 3 |
| CHEM 2234 Quantitative Analysis Lab | 2 | General Education Elective to reach 36 cr. min. **(if necessary)** |
| CHEM 3301/3303 Organic Chemistry I with Lab | 4 |   |  |
| CHEM 3302/3304 Organic Chemistry II with Lab | 4 |  **Total GE** | **38** |
| CHEM 3331 Instrumental Analysis | 2 | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  |
| CHEM 3334 Instrumental Analysis Lab | 2 |
| CHEM 3341 Topics in Physical Chemistry I | 3 |  |
| CHEM 3342 Topics in Physical Chemistry II | 3 |
| CHEM 4400 Practicum in Physical Science | 2 |
| CHEM Electives Approved by Advisor | 7 | **MAP Credit Summary** | **CR** |
| Math Requirement (counted in GE) | Major  | 82 |
| MATH 1160 (or 1170) Applied Calculus (or Calculus I) | 3 | General Education  | 38 |
| Physics Requirement  | **3** | Free Electives to reach 120 credits | 0 |
| PHYS 1111 General Physics (3 counted in GE) |  TOTAL | 120 |
| PHYS 1112 General Physics II | 3 |  |
|  |  |
|  |  |
|  |  |
|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | x |
|  |  | Minimum 16 cr. Upper Division in Major (0 cr. Associate) | x |  |
|  |  | Minimum 36 cr. Upper Division Overall (0 cr. Associate) | x |  |
|  |  | Minimum of 120 cr. Total (60 cr. Associate) | x |  |
|  |  |  |  |
| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
| Admission Requirements: 3.0 GPA |  | *Date* |
| Teacher Education Program Admission Interview | *Department:*  |  |
| Passing scores on PRAXIS Core Academic Skills for Educators Exam | *CAA or COT:* | 6.14.2018 sf jh |
| Professional Portfolio | *Registrar:*  |  |
| Idaho Code Awareness Affidavit |  |
| Minimum grade requirements in Objectives 1, 2, 3, EDUC 2201, 2215 |
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 Form Revised 1.24.2018