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| **Catalog Year 2019-2020**  AS, Physics | ***(For internal use only)***  *No change*  *UCC proposal* |

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.

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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 3: MATH 1170 Calculus I | 4 | C- | GE | F,S,Su | MATH 1147 or 1144 or appropriate placement score | | |  |
| GE Objective 5: CHEM 1111 & 1111L General Chemistry I | 5 |  | GE | F,S,Su | MATH 1143 or 1147 or appropriate placement score | | |  |
| GE Objective 4 | 3 |  | GE | F,S,Su |  |  | | |
| Total | 15 |  |  |  |  |  | | |
| Semester Two | | | | | | | | |
| GE Objective 1: ENGL 1102 Writing and Rhetoric II | 3 | C- | GE | F, S, Su | ENGL 1101 or equivalent |  | | |
| MATH 1175 Calculus II | 4 | C- |  | F,S,Su | MATH 1170 |  | | |
| CHEM 1112 & 1112L General Chemistry II & Lab | 4 |  |  | F,S | CHEM 1111 & 1111L, MATH 1143 or 1147 | |  | |
| GE Objective 6 | 3 |  | GE | F,S,Su |  |  | | |
| Free Elective | 1 |  |  |  |  |  | | |
| Total | 15 |  |  |  |  |  | | |
| Semester Three | | | | | | | | |
| GE Objective 2: Principles of Speech | 3 |  | GE | F,S,Su |  |  | | |
| GE Objective 5: PHYS 2211 Engineering Physics I | 4 |  | GE | F,S | MATH 1175 | | | |
| PHYS 2213 Engineering Physics I | 1 |  | MATH 1175 | | | |
| MATH 2275 Calculus III | 4 | C- |  | F,S | MATH 1175 |  | | |
| GE Objective 4 | 3 |  | GE | F,S,Su |  |  | | |
| Total | 15 |  |  |  |  |  | | |
| Semester Four |  |  |  |  |  |  | | |
| PHYS 2212 Engineering Physics II | 4 |  |  | F,S,Su | PHYS 2211 |  | | |
| And PHYS 2214 Engineering Physics II Lab | 1 |  |  | F,S | PHYS 2213 | PHYS 2212 | | |
| GE Objective 6 | 3 |  | GE | F,S,Su |  |  | | |
| GE Objective 7 or 8 | 3 |  | GE | F,S,Su |  |  | | |
| GE Objective 9 | 3 |  | GE | F,S,Su |  |  | | |
| Free Elective | 1 |  |  |  |  |  | | |
| Total | 15 |  |  |  |  |  | | |
| Semester Five |  |  |  |  |  |  | | |
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| Semester Six |  |  |  |  |  |  | | |
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| Semester Seven |  |  |  |  |  |  | | |
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| Total |  |  |  |  |  |  | | |
| Semester Eight |  |  |  |  |  |  | | |
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| Total |  |  |  |  |  |  | | |
| \*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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| AS, Physics | | | | | | | | |
| **2019-2020 Major Requirements** | **CR** | **2018-2019 GENERAL EDUCATION OBJECTIVES**  **Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | | | | | | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **17** | 1. Written English (6 cr. min) ENGL 1101 | | | | | | 3 |
| CHEM 1111 & 1111L General Chemistry I & Lab (Counted in Objective 5) | | ENGL 1102 | | | | | | 3 |
| CHEM 1112 & CHEM 11112L General Chemistry II & Lab | 4 | 2. Oral Communication (3 cr. min) COMM 1101 | | | | | | 3 |
| MATH 1170 Calculus I (Counted in Objective 3) | | 3. Mathematics (3 cr. min) MATH 1170 | | | | | | 4 |
| MATH 1175 Calculus II | 4 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** | | | | | | |
| MATH 2275 Calculus III | 4 |  | | | | | |  |
| PHYS 2211 & PHYS 2213 Engineering Physics I & Lab (Counted in Obj. 5) | |  | | | | | |  |
| PHYS 2212 & PHYS 2214 Engineering Physics II & Lab | 5 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** | | | | | | |
|  |  | CHEM 1111 and CHEM 1111L | | | | | | 5 |
|  |  | PHYS 2211 and PHYS 2213 | | | | | | 5 |
|  |  |  | | | | | |  |
|  |  | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** | | | | | | |
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|  |  | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** | | | | | | |
|  |  | 7. Critical Thinking | |  | | | |  |
|  |  | 8. Information Literacy | |
|  |  | 9. Cultural Diversity **(1 course; 3 cr. min)** | | | | | | |
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|  |  | General Education Elective to reach 36 cr. min. **(if necessary)** | | | | | | |
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|  |  | Total GE | | | | | | 41 |
|  |  | 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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|  |  | **MAP Credit Summary** | | | | | **CR** | |
|  |  | Major | | | | | 17 | |
|  |  | General Education | | | | | 41 | |
|  |  | Upper Division Free Electives to reach 36 credits | | | | | N/A | |
|  |  | Free Electives to reach 120 credits | | | | | 2 | |
|  |  | TOTAL | | | | | 60 | |
|  |  |  | | | | | | |
|  |  | **Graduation Requirement Minimum Credit Checklist** | | | **Confirmed** | | | |
|  |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | | | x | | | |
|  |  | Minimum 15 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 | | |
|  |  |  | | | | | | |
|  |  | ***MAP Completion Status (for internal use only)*** | | | | | | |
| **Advising Notes** | |  | *Date* | | | | | |
|  | | *Department:* |  | | | | | |
|  | | *CAA or COT:* |  | | | | | |
|  | | *Registrar:* |  | | | | | |
|  | | **Complete College American Momentum Year**  **Math and English course in first year-Specific GE MATH course identified**  **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 9.10.2019