

A Major Academic Plan (MAP) illustrates one way to complete a degree in a recommended number of semesters. Below is an example of an efficient and recommended plan, but actual plans will vary by individual student needs. Program requirements are based on Catalog Year. See page two for a detailed summary of Major, General Education, Elective, and university requirements.

Catalog Year 2017-2018

B.A. Physics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 1170 Calculus I | 4 | C- | GE | F,S,Su | MATH 1147 or 1144 or appropriate placement score |  |
| GE Objective 4 | 3 |  |  | F,S,Su |  |  |
| GE Objective 6 | 3 |  |  | F,S,Su |  |  |
| Electives | 2 |  |  | 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 |  |
| MATH 1175 Calculus II | 4 | C- |  | F,S,Su | MATH 1170 |  |
| GE Objective 4 | 3 |  | GE | F,S,Su |  |  |
| GE Objective 9 | 3 |  | GE | F,S,Su |  |  |
| Electives | 2 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Three |
| GE Objective 5: PHYS 1111 & 1113 Gen Physics I & Lab | 4 or5 |  | GE | F | MATH 1143 or MATH 1147 or appropriate placement score |  |
|  **OR** PHYS 2211 & 2213 Engineering Physics I & Lab |  |  | F,S | MATH 1175 | MATH 1175 |
| MATH 2275 Calculus III | 4 | C- |  | F,S | MATH 1175 |  |
| GE Objective 2: COMM 1101 Principles of Speech  | 4 |  | GE | F,S,Su |  |  |
| Electives | 3or4 |  |  | F,S,Su |  |  |
|  Total |  |  |  |  |  |  |
| Semester Four |  |  |  |  |  |  |
| PHYS 1112 & 1114 General Physics II & Lab | 4 or 5 |  |  | S |  |  |
| **OR**  PHYS 2212 & 2214 Engineering Physics II & Lab |  |  | F,S |  |  |
| MATH 3360 Differential Equations | 3 |  | UM | F,S | MATH 1175; MATH 2275 recommended |  |
| GE Objective 6 | 3 |  | GE | F,S,Su |  |  |
| Electives | 4or5 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Five |  |  |  |  |  |  |
| PHYS 3301 Modern Physics | 3 |  | UM | F | PHYS 2212 | MATH 3360 |
| Upper Division Elective | 3 |  | UU | F,S,Su | See catalog |  |
| GE Objective 5 (choose one course, not PHYS) | 3 |  | GE | F,S,Su |  |  |
| Electives | 6 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Semester Six |  |  |  |  |  |  |
| PHYS Electives | 1or3 |  |  | F,S,Su | See catalog |  |
| Upper Division PHYS Electives | 4 |  | UM | F,S,Su | See catalog |  |
| GE Objective 7 or 8 | 3 |  | GE | F,S,Su |  |  |
| Electives | 5or7 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Semester Seven |  |  |  |  |  |  |
| 4000 Level PHYS Electives | 3 |  | UM | F,S,Su | See catalog |  |
| Upper Division Electives | 9 |  | UU | F,S,Su | See catalog |  |
| Electives | 3 |  |  | F,S,Su |  |  |
|  Total  | 15 |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Semester Eight |   |  |  |  |  |  |
| 4000 Level PHYS Electives | 3 |  | UM | F,S,Su | See catalog |  |
| Upper Division Electives | 8 |  | UU | F,S,Su | See catalog |  |
| Electives | 4 |  |  | F,S,Su |  |  |
|  Total  | 15 |  |  |  |  |  |
| \*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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| **2017-2018 Major Requirements** | **CR** | **2017-2018GENERAL EDUCATION OBJECTIVES****Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **30-31** | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| MATH 1170 Calculus I (4 cr counted in Objective 3) |  ENGL 1102 | 3 |
| MATH 1175 Calculus II | 4 | 2. Oral Communication COMM 1101 | 3 |
| MATH 2275 Calculus III | 4 | 3. Mathematics (3 cr. min) MATH 1170 | 4 |
| MATH 3360 Differential Equations | 3 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** |
| 24 credits of PHYS including: |  |  |  |
| PHYS 1111 & 1113 General Physics I and LabOR (4-5 cr counted in Objective 5) |  |  |
| 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** |
| PHYS 2211 & 2213 Engineering Physics I and Lab |  |  | PHYS 1111 & 1113 **OR** | 4 **OR** |
| PHYS 1112 & 1114 General Physics II and LabORPHYS 2212 & 2214 Engineering Physics II and Lab | 4 |
| or | PHYS 2211 & 2213 | 5 |
| 5 |  |  |
| PHYS 3301 Modern Physics | 3 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** |
| ^Upper Division Elective Physics credits of which at least 6 credits must be PHYS 4000 level, excluding PHYS 4492 | 11 to13 |  |  |
|  |  |  |  |
|  |  | 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)** |
|  |  |  |  |
|  |  | General Education Elective to reach 36 cr. min. **(if necessary)** |
|  |  |   |  |
|  |  |  **Total GE** | **38-39** |
|  |  | GE Objectives - Catalog Requirements: [2017-2018 General Education Requirements (PDF)](https://www.isu.edu/media/libraries/central-academic-advising/pdf-files/gened-requirements/2017-2018-General-Education-Requirements.pdf) |
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|  |  |
|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 30-31 |
|  |  | General Education  | 38-39 |
|  |  | Free Electives to reach 120 credits | 50-52 |
|  |  |  TOTAL | 120 |
|  |  |  |
|  |  |
|  |  |
|  |  |
|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | yes |
|  |  | Minimum 16 cr. Upper Division in Major (0 cr. Associate) |  | yes |
|  |  | Minimum 36 cr. Upper Division Overall (0 cr. Associate) |  | yes |
|  |  | Minimum of 120 cr. Total (60 cr. Associate) |  | yes |
|  |  |  |  |
| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
| ^ The number of Physics electives needed (11 or 13) will depend on which Physics sequence was selected. |  | *Date* |
|  | *Department:*  | 11.7.2017 SS |
|  | *CAA or COT:* | 10.5.2017 jh |
|  | *Registrar:*  |  |
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 Form Revised 4.14.2017