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| **Catalog Year 2019-2020**BA, 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 4 | 3 |  | GE | F,S, Su |  |  |
| GE Objective 6 | 3 |  | GE |  F,S, Su |  |  |
|  Free Electives | 2 |  |  | 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 |  |
| GE Objective 4 | 3 |  | GE | F,S,S u |  |  |
| GE Objective 9 | 3 |  | GE | F,S, Su |  |  |
|  Free Electives | 2 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Three |
| GE Objective 5: PHYS 1111 & 1113 Gen Physics I & Lab | 4-5 |  | 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 |  |  |
| Free Electives | 2-3 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Four |  |  |  |  |  |  |
| PHYS 1112 & 1114 General Physics II & Lab | 4-5 |  |  | S | PHYS 1111 & 1113 Gen Physics I & Lab |  |
| **OR**  PHYS 2212 & 2214 Engineering Physics II & Lab |  |  | F,S | PHYS 2211 & 2213 Engineering Physics I & Lab |  |
| MATH 3360 Differential Equations | 3 |  | UM | F,S | MATH 1175; MATH 2275 recommended |  |
| GE Objective 6 | 3 |  | GE | F,S, Su |  |  |
| Free Electives | 4-5 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Five |  |  |  |  |  |  |
| PHYS 3301 Modern Physics | 3 |  | UM | F | PHYS 2212 | MATH 3360 |
|  Free Upper Division Electives | 3 |  | UU | F,S, Su | See Catalog |  |
| GE Objective 5 (choose one course, not PHYS) | 3 |  | GE | F,S, Su |  |  |
|  Free Electives | 6 |  |  | F,S ,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Six |  |  |  |  |  |  |
| PHYS Electives | 1-3 |  |  | 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 |  |  |
|  Free Electives | 5-7 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Seven |  |  |  |  |  |  |
| 4000 Level PHYS Electives | 3 |  | UM | F,S, Su | See Catalog |  |
|  Free Upper Division Electives | 9 |  | UU | F,S, Su | See Catalog |  |
|  Free Electives | 3 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Eight |  |  |  |  |  |  |
| 4000 Level PHYS Electives | 3 |  | UM | F,S, Su | See Catalog |  |
|  Free Upper Division Electives | 8 |  | UU | F,S, Su | See Catalog |  |
|  Free 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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| BA, 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** | **30-31** | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| MATH 1170 Calculus I (Counted in Objective 3) |  ENGL 1102 | 3 |
| MATH 1175 Calculus II | 4 | 2. Oral Communication (3 cr. min) 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)** |
| **At least 24 credits of Physics courses including:** |  |  |
| PHYS 1111 & 1113 General Physics I and Lab  |  |  |  |
|  OR PHYS 2211 & 2213 Engineering Physics I and Lab (Counted in Objective 5) | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** |
| PHYS 1112 & 1114 General Physics II and Lab | 4-5 | PHYS 1111 and PHYS 1113 | 4 |
| OR PHYS 2212 & 2214 Engineering Physics II and Lab |  OR PHYS 2211 and PHYS 2213 | 5 |
| PHYS 3301 Modern Physics | 3 |  |  |
| ^Upper Division Elective Physics credits of which at least 6 credits must  | 11-13 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** |
| be PHYS 4000 level, excluding PHYS 4492 |  |  |
|  |  |  |  |
|  |  | 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 | 39-40 |
|  |  | 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  | 30-31 |
|  |  | General Education  | 39-40 |
|  |  | Upper Division Free Electives to reach 36 credits | 20 |
|  |  | Free Electives to reach 120 credits | 29-31 |
|  |  |  TOTAL | 120 |
|  |  |  |
|  |  | **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* |
| ^ The number of Physics electives needed (11 or 13) will depend on which  | *Department:*  |  |
| Physics sequence was selected. | *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