

Catalog Year 2017-2018

BS, Statistics

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.

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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 English Composition | 3 | C- | GE | F,S, Su | Appropriate placement score |  |
| GE Objective 3: MATH 1170 Calculus I | 4 | C- | GE  | F,S, Su | Appropriate placement score or MATH 1147 or MATH 1144 |  |
| GE Objective 7: CS 1181 Intro to CS & Programming | 3 | C | GE | F,S | MATH 1143 or MATH 1147 | MATH 1143 or MATH 1147 |
| GE Objective 4 | 3 |  | GE | F,S, Su |  |  |
| Free 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 |  |
| MATH 2240 Linear Algebra | 3 | C- |  | F,S, Su | MATH 1170 |  |
| MATH 3350 Statistical Methods | 3 |  | UM | F,S | MATH 1160 or MATH 1170 |  |
| Free Electives  | 2 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Three |
| MATH 2275 Calculus III | 4 | C- |  | F,S | MATH 1175 |  |
| MATH 3352 Introduction to Probability | 3 | C- | UM | F,S | MATH 1175 or permission of instructor |  |
| GE Objective 2: Principles of Speech | 3 |  | GE | F,S, Su |  |  |
| GE Objective 4 | 3 |  | GE | F,S, Su |  |  |
| GE Objective 6 | 3 |  | GE | F,S, Su |  |  |
|  Total | 16 |  |  |  |  |  |
| Semester Four |  |  |  |  |  |  |
| MATH 3326 Elementary Analysis | 3 | C- | UM | F,S | MATH 1175 and either MATH 2240 or MATH 2287 |  |
| Statistics Elective (see list in Degree Works) | 3 |  | UM | F,S | See catalog |  |
| GE Objective 5 lecture & lab | 4 |  | GE | F,S, Su | See catalog |  |
| GE Objective 6 | 3 |  | GE | F,S, Su |  |  |
| Free Electives | 2 |  |  | F,S, Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Five |  |  |  |  |  |  |
| MATH 4457 Applied Regression Analysis | 3 |  | UM | D | MATH 3350 or MATH 3352 or permission of instructor |  |
| Statistics Elective (see list in Degree Works) | 3 |  | UM | F,S | See catalog |  |
| Upper Division elective  | 3 |  | UM | F,S, D | See catalog |  |
| GE Objective 5 lecture | 3 |  | GE | F,S, Su | See catalog |  |
| Free Electives | 3 |  |  | F,S,Su |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Six |  |  |  |  |  |  |
| MATH 4458 Experimental Design | 3 |  | UM | D | MATH 3350 or MATH 3352 or permission of instructor |  |
| GE Objective 9 | 3 |  | GE | F,S, Su |  |  |
| Free Electives | 9 |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Seven |  |  |  |  |  |  |
| MATH 4450 Mathematical Statistics | 3 |  | UM | F | MATH 3326 and MATH 3352 |  |
| Statistics Elective (see list in Degree Works) | 3 |  | UM | F,S,D |  |  |
| Upper Division Free Electives | 3 |  |  |  |  |  |
| Free Electives | 6 |  |  |  |  |  |
|  Total  | 15 |  |  |  |  |  |
| Semester Eight |   |  |  |  |  |  |
| MATH 4451 Mathematical Statistics II | 3 |  | UM | S | MATH 4450 |  |
| Free Electives | 11 |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  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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| **2017-2018 Major Requirements** | **CR** | **2017-2018 GENERAL EDUCATION OBJECTIVES****Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **41** | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| **Mathematics Core**  | 14 |  ENGL 1102 | 3 |
| MATH 1170 Calculus I (4 cr counted in Objective 3) | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| MATH 1175 Calculus II | 4 | 3. Mathematics (3 cr. min) MATH 1170 | 4 |
| MATH 2275 Calculus III | 4 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** |
| MATH 2240 Linear Algebra | 3 |  |  |
| MATH 3326 Elementary Analysis | 3 |  |  |
| CS 1181 Computer Science & Programming (3 cr counted in Objective 7) | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** |
| **Statistics Major Requirements** | 27 |  |  |
| MATH 3350 Statistical Methods | 3 |  |  |
| MATH 3352 Introduction to Probability | 3 |  |  |
| MATH 4450 Mathematics Statistics I | 3 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** |
| MATH 4451 Mathematics Statistics II | 3 |  |  |
| MATH 4457 Applied Regression Analysis | 3 |  |  |
| MATH 4458 Experimental Design | 3 | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** |
| Choose 9 Upper Division credits from approved major list (See  | 9 | 7. Critical Thinking CS 1181 | 3 |
| Degree Works/Catalog) |  | 8. Information Literacy  |
|  |  | 9. Cultural Diversity **(1 course; 3 cr. min)** |
|  |  |  |  |
|  |  | General Education Elective to reach 36 cr. min. **(if necessary)** |
|  |  |   |  |
|  |  |  **Total GE** | **38** |
|  |  | 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  | 41 |
|  |  | General Education  | 38 |
|  |  | Free Electives to reach 120 credits | 41 |
|  |  |  TOTAL | 120 |
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|  |  | **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)*** |
| Student must select additional Upper Division credits to reach 36 |  | *Date* |
|  | *Department:*  | Dr.Fisher 06/08/2017 |
|  | *CAA or COT:* | CAA 06/08/2017 SFjh |
|  | *Registrar:*  |  |
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 Form Revised 4.14.2017