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| **Catalog Year 2021-2022**BS, Statistics | ***(For internal use only)***[ ]  *No change*[ ]  *UCC proposal* |

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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 | 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 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 |  |
| 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) | 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) | 3 |  | UM | F,S |  |  |
| GE Objective 5 lecture | 3 |  | GE | F,S, Su |  |  |
| Upper Division Free Electives  | 3 |  | UU |  |  |  |
| Free Electives | 3 |  |  |  |  |  |
|  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 |  |  |  |  |  |
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|  |  |  |  |  |  |  |
|  Total | 15 |  |  |  |  |  |
| Semester Seven |
| MATH 4450 Mathematical Statistics | 3 |  | UM | F | MATH 3326 and MATH 3352 |  |
| Statistics Elective (see list) | 3 |  | UM | F,S,D |  |  |
| Upper Division Free Electives | 3 |  | UU |  |  |  |
| Free Electives | 6 |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  Total  | 15 |  |  |  |  |  |
| Semester Eight  |
| MATH 4451 Mathematical Statistics II | 3 |  | UM | S | MATH 4450 |  |
| Free Electives | 11 |  |  |  |  |  |
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|  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.)  |

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

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| BS, Statistics Page 2  |
| **2021-2022 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | **36 cr. min** |
| **MAJOR REQUIREMENTS** |  | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| **Mathematics Core**  | 14 |  ENGL 1102 | 3 |
| MATH 1170 Calculus I (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 & Programing I^ (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:***  |  | 7. Critical Thinking | CS 1181 | 3 |
| MATH 3360 Differential Equations | 3 | 8. Information Literacy  |  |
| MATH 4406 Advanced Linear Algebra | 3 | 9. Cultural Diversity **(1 course; 3 cr. min)** |
| MATH 4423 Introduction to Real Analysis I | 3 |  |  |
| MATH 4424 Introduction to Real Analysis II | 3 | General Education Elective to reach 36 cr. min. **(if necessary)** |
| MATH 4441 Introduction to Numerical Analysis I | 3 |   |  |
| MATH 4442 Introduction to Numerical Analysis II | 3 |  **Total GE** | **38** |
| MATH 4453 Topics in Statistics^^ | 1-3 | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/) *http://coursecat.isu.edu/undergraduate/programs/* |
| MATH 4459 Applied Multivariate Analysis | 3 |
| Department approved advanced 4000-level course | 3 |  |
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|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 41 |
|  |  | General Education  | 38 |
|  |  | Upper Division Free Electives to reach 36 credits | 6 |
|  |  | Free Electives to reach 120 credits | 35 |
|  |  |  TOTAL | 120 |
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|  |  | **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 |
|  |  |  |  |
| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
| Student must select additional Upper Division credits to reach 36 |  | *Date* |
| ^Two courses (ME 1165 & 2266) may be substituted for CS 1181. |  |  |
| ^^ MATH 4453 repeatable up to 3 cr  | *CAA or COT:* | 10/9/2020 bgb |
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|  | **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 |