|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course** | **Name** | **Fall** |  | **Spring** | **CR** |
| **Math Core:** |  |  |  |  |  |
| Math 2200 | Calculus I |  |  |  | 4 |
| Math 2205 | Calculus II |  |  |  | 4 |
| Math 2210 | Calculus III |  |  |  | 4 |
| Math 2250 | Linear Algebra |  |  |  | 3 |
|  |  |  |  |  |  |
| **COSCI Core:** |  |  |  |  |  |
| COSC 1010 | Intro Computer Science I |  |  |  | 3 |
| COSC 1030 | Computer Science I |  |  |  | 3 |
|  |  |  |  |  |  |
| **STAT Core: All** |  |  |  |  |  |
| STAT 3050 | Statistical Methods |  |  |  | 3 |
| STAT 4015 | Regression Analysis |  |  |  | 3 |
| STAT 4025 | Design & Analysis I |  |  |  | 3 |
| STAT 4255 | Theory of Probability |  |  |  | 3 |
| STAT 4265 | Theory of Statistics |  |  |  | 3 |
| STAT 4870 | Senior Thesis |  |  |  | 3 |
|  |  |  |  |  |  |
| **STAT Upper Div.**  **Choose 3:** |  |  |  |  |  |
| STAT 4045 | Categorical Data Analysis |  |  |  | 3 |
| STAT 4070 | Casual Models |  |  |  | 3 |
| STAT 4115 | Time Series |  |  |  | 3 |
| STAT 4155 | Fundamentals of Sampling |  |  |  |  |
| STAT 4300 | Applied Multivariate |  |  |  | 48 |
| STAT 4350 | Survey Construction and Analysis |  |  |  |  |
| STAT 4370 | Survival Analysis |  |  |  |  |
| STAT 5320 | Design and Analysis II |  |  |  |  |

**General Requirements – Statistics Major**

A BA/BS degree in Statistics entails completion of three tiers of requirements: the University Studies Program (USP), the

A&S core requirements, and the Statistics Department requirements. The USP’s and A&S Core are detailed on the reverse side of this document.

Statistics department – Major requirements include the completion of a minimum of 48 credits from the following 4 categories:

* **Stats Core**:

Statistical Methods (3050), Regression Analysis (4015), Design & Analysis of Experiments I (4025), Theory of Probability (4255), Intro Theory of Statistics (4265), Senior Thesis (4870).

* **Math Basic Core:**

Calculus I (2200), Calculus II (2205), Calculus III (2210) and Linear Algebra (2250).

* **Computer Science Basic:**

Intro Computer Science I (1010), & Computer Science I (1030).

* **Upper Division Statistics Electives: (Choose 3)**

Categorical Data Analysis (4045), Casual Models (4070), Time Series (4115), Fundamentals of Sampling (4115), Applied Multivariate Analysis (4300), Survey Construction and Analysis (4350), Survival Analysis (4370), and Design and Analysis of Experiments II (5320).

**All courses must be completed with a grade of “C” or better.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course** | **Name** | **Fall** |  | **Spring** | **CR** |
| **Basic Concepts:** |  |  |  |  |  |
| MATH 1400 | College Algebra |  |  |  | 3 |
| STAT 2050 | Fundamentals Stats |  |  |  | 3 |
| STAT 2070 | Intro Stats social science |  |  |  | 3 |
| STAT 4220 | Engineering Statistics |  |  |  | 3 |
|  |  |  |  |  |  |
| **Basic Methods:** |  |  |  |  |  |
| STAT 3050 | Statistical Methods |  |  |  | 3 |
|  |  |  |  |  |  |
| **Upper Div. Choose 3** |  |  |  |  |  |
| STAT 4015 | Regression Analysis |  |  |  | 3 |
| STAT 4025 | Design & Analysis I |  |  |  | 3 |
| STAT 4045 | Categorical Data Analysis |  |  |  | 3 |
| STAT 4070 | Casual Modes |  |  |  |  |
| STAT 4115 | Time Series Analysis |  |  |  |  |
| STAT 4155 | Fundamentals of Sampling |  |  |  | 24 |
| STAT 4255 | Theory of Probability |  |  |  |  |
| STAT 4265 | Intro Theory Stats |  |  |  |  |
| STAT 4300 | Applied Multivariate |  |  |  |  |
| STAT 4350 | Survey Construction |  |  |  |  |
| STAT 4370 | Survival Analysis |  |  |  |  |
| STAT 5320 | Design & Analysis II |  |  |  |  |

**General Requirements – Statistics Minor**

A math minor requires completion of a minimum of 29 credits from the following 3 categories:

* **Mathematics foundation:**College Algebra (1400)
* **Basic Concepts (choose 1):**

Fundamental of Statistics (STAT 2050), Stats for Social Sciences (2070), Engineering Statistics (4220)

* **Basic Methods:**

Statistical Methods (3050)

* **STAT Upper Division (Choose 3)**

Regression Analysis (4015), Design & Analysis I (4025), Categorical Data Analysis (4045), Casual Models (4070), Time Series Analysis & Forecasting (4115), Fundamentals of Sampling (4155), Theory of Probability (4255), Intro Theory of Stats (4265), Applied Multivariate Analysis (4300), Survey Construction and Analysis (4350), Survival Analysis (4370), Design & Analysis II (5320).

**All courses must be completed with a grade of “C” or better**.