

## Data Analytics

- **BA or BS: 59 credit hours**
- **Major GPA required for graduation: 2.25**
- **All courses for the major must be completed with a grade of C- or better.**

### PROGRAM REQUIREMENTS:

- **Complete core requirements**
- **Capstone: Internship in Mathematics (MTH 470) or Data Analytics Capstone (MTH 485)**

**Description of Major:** Data analytics is a major that focuses on the analysis of large, complex data sets. Students utilize skills from the areas of mathematics, statistics, and computer science to analyze large data sets. They will use specific subject domain knowledge and professional writing skills to present their analysis to a broad audience.

### Student Learning Outcomes

*Students will:*

- Effectively manage and organize data sets and create solutions to analytical problems.
- Communicate analytics problems, methods, and findings: orally, visually, and in writing.
- Critically evaluate solutions to analytical problems.
- Develop subject area knowledge in a selected area.

**Degree Preparation:** The data analytics degree builds a broad base in the areas of mathematics and data management. Students will also develop their communication skills and subject knowledge in a selected area. Students will be prepared for a position in industry.

To major in data analytics, students must complete the core requirements, plus additional requirements in one of the following tracks: social science or business.

### DATA ANALYTICS REQUIREMENTS

**41 crs.**

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|           |  |     |
|-----------|--|-----|
| MTH 210   | CALCULUS I   | (4) |
| MTH 211   | CALCULUS II  | (4) |
| MTH 340   | PROBABILITY  | (3) |
| MTH 341   | APPLIED STATISTICS                                       | (4) |
| MTH 344   | STATISTICAL LEARNING                                     | (3) |
| MTH 360   | LINEAR ALGEBRA   | (3) |
| MTH 470   | INTERNSHIP IN MATHEMATICS                                | (3) |
| <i>or</i> |  |     |
| MTH 485   | DATA ANALYTICS CAPSTONE                                  | (3) |
| CSI 130   | INTRODUCTION TO COMPUTING I                              | (4) |
| CSI 230   | INTRODUCTION TO COMPUTING II                             | (4) |
| CSI 330   | DATA STRUCTURES AND ALGORITHMS                           | (3) |
| PWR 210   | INTRODUCTION TO PROFESSIONAL WRITING (W)                 | (3) |
| PWR 360   | INTERDISCIPLINARY PROFESSIONAL AND TECHNICAL WRITING (W) | (3) |

**BACHELOR OF ARTS: SOCIAL SCIENCE TRACK** **18 crs.**

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*Complete the core requirements, plus the following:*

|         |  |      |
|---------|--|------|
| PSY 153 | INTRODUCTION TO PSYCHOLOGY                   | (3)  |
| SOC 150 | INTRODUCTION TO SOCIOLOGY                    | (3)  |
|         | ADDITIONAL PSYCHOLOGY OR SOCIOLOGY ELECTIVES | (12) |

**BACHELOR OF SCIENCE: BUSINESS TRACK** **18 crs.**

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*Complete the core requirements, plus the following:*

|         |                                     |     |
|---------|-------------------------------------|-----|
| ECO 211 | PRINCIPLES OF MICROECONOMICS        | (3) |
| ECO 212 | PRINCIPLES OF MACROECONOMICS        | (3) |
| ACC 205 | PRINCIPLES OF FINANCIAL ACCOUNTING  | (3) |
| ACC 230 | PRINCIPLES OF MANAGERIAL ACCOUNTING | (3) |
| FIN 308 | PRINCIPLES OF BUSINESS FINANCE      | (3) |
| MKT 205 | PRINCIPLES OF MARKETING             | (3) |

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