

# DATA ANALYTICS - MINOR

Ambassador Crawford College of Business and Entrepreneurship  
Department of Economics  
www.kent.edu/business/economics

## About This Program

The Data Analytics minor trains students to use data to inform decision-making and create solutions. Students learn to acquire and collect raw data in various formats, convert raw data to usable formats and then understand how to appropriately analyze the data to draw accurate and useful conclusions. Graduates of the program will be able to use their skills across a wide-range of industries as well as in the non-profit and government sectors.

## Contact Information

- **Tom Sahajdack, Ph.D.** | tsahajda@kent.edu | 330-672-1085
- Speak with an Advisor

## Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Data Analytics minor, students must have completed following courses (or their equivalent) with a minimum C- grade: ECON 22060 and (MATH 11012 or MATH 12002).

## Program Requirements

### Minor Requirements

| Code  | Title   | Credit Hours |
|---|---|--------------|
| <b>Minor Requirements</b>                                   |   |              |
| ECON 32050  | APPLIED ECONOMETRICS I (ELR) (min C grade)  | 3            |
| ECON 32051  | APPLIED ECONOMETRICS II   | 3            |
| ECON 42050  | DATA ACQUISITION, PREPARATION AND VISUALIZATION   | 3            |
| MATH 10041<br>or BA 24056                                   | INTRODUCTORY STATISTICS (KMCR) <sup>1</sup><br>BUSINESS ANALYTICS I                                 | 3-4          |
| Programming Elective, choose from the following:            |   | 3            |
| CS 13011<br>& CS 13012                                      | COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING<br>and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING |              |
| EMAT 25310  | CREATIVE CODING   |              |
| Programming or Applied Elective, choose from the following: |   | 3            |
| <i>Programming Elective</i>                                 |   |              |

CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION

Any other programming course with approval

*Applied Elective* <sup>2</sup>

|            |   |
|------------|---|
| ACCT 43009 | ACCOUNTING DATA ANALYTICS                   |
| CIS 44043  | DATABASE DESIGN AND DATA GOVERNANCE         |
| ECON 42068 | INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY |
| ECON 42072 | LABOR ECONOMICS: WORK AND PAY               |
| ECON 42191 | SENIOR SEMINAR IN ECONOMICS (WIC)           |
| FDM 35270  | COMPUTER APPLICATIONS IN RETAILING          |
| FIN 36086  | ADVANCED FINANCIAL MODELING                 |
| MKTG 35061 | MARKETING ANALYTICS                         |

**Minimum Total Credit Hours:**

**18**

<sup>1</sup> Students who have taken an equivalent course in introductory statistics or have an equivalent AP statistics exam score may substitute for the statistics requirement.

<sup>2</sup> Students may be allowed to choose an appropriate applied data course from their major discipline, subject to approval by the undergraduate coordinator in economics.

## Graduation Requirements

| Minimum Minor GPA | Minimum Overall GPA |
|-------------------|---------------------|
| 2.500             | 2.000               |

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Student may not pursue a minor and a major in the same discipline
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire and collect raw data in various formats.
2. Convert raw data to usable formats.
3. Analyze the data to draw accurate and useful conclusions.