

# ECONOMICS (Data Analytics Track), B.S.

40 courses of three or more credits and 3 one-credit PE courses

## GENERAL EDUCATION CORE

**BASIC REQUIREMENTS** (2 courses and 3 one-credit PE courses)

Composition and Rhetoric

- EN103 Composition and Rhetoric I
- EN104 Composition and Rhetoric I

Physical Education Courses

- PE 100
- PE \_\_\_\_
- PE \_\_\_\_

**MODES OF THINKING** (3 courses)

Literature (Select one)

- EN 110, EN 112, EN 115

Mathematics

**(Satisfied by Major – MA 121)**

Natural Science (Select one)

- BI 209, BI 210, BI 211, BI 242, CH 209, CH 212, PH 208, PH 209

Philosophy  PL 109

Social Sciences **(Satisfied by Major – EC 209)**

**CULTURAL LITERACY** (6 courses)

Humanities I and II. *Preferably* select a set (e.g., HI 201/202). However, a combination (e.g., PO 201 + HI 214) is acceptable.

- Hum. I: HI 201, PO 201, HI 213
- Hum. II: HI 202, PO 202, HI 214, HI 262

Humanities III: Great Works of Art & Music (See Master Schedule of Day Classes)

- \_\_\_\_

Humanities IV: Great Works of Literature (See Master Schedule of Day Classes)

- \_\_\_\_

Foreign Language/World Cultures

(Select either two of the same language, any two WC, or one WC and one approved course with international study)

- \_\_\_\_
- \_\_\_\_

## **CHRISTIAN VALUES AND THEOLOGY**

(3 courses)

Catholic Theology

- TH 109

Intermediate Theology (200/300 level TH)

- TH \_\_\_\_

Values Seminar

(See Master Schedule of Day Classes)

- \_\_\_\_

## MAJOR

(12 required courses)

1. EC 209: Principles of Macroeconomics
2. EC 210: Principles of Microeconomics
3. EC 309: Intermediate Macroeconomics
4. EC 310: Intermediate Microeconomics
5. EC 320: Econometrics
6. EC 451: Senior Seminar in Economics
7. MA 111: Probability and Statistics **or** MA 302: Statistical Theory
8. MA 121: Calculus I
9. MA 122: Calculus II
10. EC Elective (200-400) \_\_\_\_ \_\_\_\_
11. EC Elective (200-400) \_\_\_\_ \_\_\_\_
12. EC Elective (200-400) \_\_\_\_ \_\_\_\_

**Recommended EC Elective Courses:** EC.454, 455, 499.

***\*FN 220 & FN 336 may be used as EC electives***

**Data Analytics Track:** (5 required courses)

- MG 220: Data Analysis
- MG 226: Intro to Data Analytics and AI
- CS 260: Databases & Data Visualization
- MI 353: Stat. Analysis & Predictive Modeling
- MI 462: Applied AI Platforms & Projects

## MINOR

(6 courses)

- |                               |                               |
|-------------------------------|-------------------------------|
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## ELECTIVES

(As needed for 40-course req.)

*Recommended elective: MA 243.*

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A Koefler, Director of Academic Resource Center  
Effective fall, 2021

***For the most up-to-date record of progress toward completion of degree requirements, students should use the Academic Evaluation tool, which is listed under the Academic Planning heading in WebAdvisor.***

**DeSales University**  
**Typical Program: ECONOMICS ( Data Analytics Track), B.S.**

**FALL SEMESTER**

**SPRING SEMESTER**

**FIRST YEAR**

Composition and Rhetoric I (EN 103)  
Principles of Macroeconomics (EC209)  
Philosophy MOT (PL 109)  
Calculus I (MA 121)  
Probability and Statistics (MA 111)  
Lifetime Fitness and Wellness (PE 100)

Composition and Rhetoric II (EN 104)  
Principles of Microeconomics (EC 210)  
Catholic Theology (TH 109)  
Calculus II (MA 122)  
Data Analysis (MG 220)  
Physical Education (Activity)

**SECOND YEAR**

Intermediate Macroeconomics (EC 309)  
EC Elective (200-400)\*  
Humanities 1  
Foreign Language/World Cultures  
Intro to Data Analytics and AI (MG 226)  
Physical Education (Activity)

Intermediate Microeconomics (EC 310)  
EC Elective (200-400)\*  
Humanities 2  
Foreign Language/World Cultures  
Databases & Data Visualization (CS 260)

**THIRD YEAR**

Intermediate Theology (200-300)  
EC Elective (200-400)\*  
Humanities 3  
Stat. Analysis and Predictive Modeling (MI 353)  
Literature MOT

Natural Science MOT  
Humanities 4  
Econometrics (EC 320)  
Free Elective  
Free Elective

**FOURTH YEAR**

Values Seminar  
Senior Seminar (EC 451)  
Free Elective  
Free Elective  
Free Elective

Free Elective  
Applied AI Platforms & Projects (MI 462)  
Free Elective  
Free Elective  
Free Elective  
Business Capstone (MG 4000) *1 credit*

**\*Recommended EC Elective Courses:** EC 454, 455, 499. FN 220 and FN 336 may be used as EC electives.

MA 243 is highly recommended as a free elective.