

ECONOMIC DATA ANALYTICS (BSB)

The Economic Data Analytics (EDA) Bachelor of Science in Business (BSB) focuses on quantitative analysis and aims to attract students who are specifically interested in a STEM undergraduate Economics program that highlights the economic analysis of data and the acquisition of software skills with such programs as STATA, R and SAS. Students learn to analyze “big data” using economic theory and both cross sectional and time series data analysis techniques. The skills developed allow graduates to analyze data to make business decisions in the private sector and to inform public policy and regulatory decisions in the public sector.

Program Requirements	Quarter Hours
Business Core Requirements	60
Liberal Studies Requirements	72
Major Requirements	38
Open Electives	22
Total hours required	192

STEM Designation

DePaul's Bachelor of Science in Business degree with a major in Economic Data Analytics (EDA) is a STEM-designated program under CIP Code 45.0603: Econometrics and Quantitative Economics. International students who earn degrees from STEM-designated programs can qualify to extend their post-graduation stay in the United States for Optional Practical Training (OPT). OPT provides an opportunity for international students to develop their careers while also helping meet the demand for STEM-educated professionals in the U.S. workforce.

Learning Outcomes

Core Outcomes

- Use analytical and reflective skills in decision-making.
- Communicate effectively both orally and in writing.
- Recognize legal and ethical issues confronting them.
- Contribute to the performance of a group within a business setting.
- Know the differences among global economies, institutions, business practices and cultures.
- Acquire knowledge of the functional areas of business and the interrelationships among the functional areas within a business.

Students will be able to:

- Apply linear regression models to applications in economics and business.
- Use and program within statistical software [Stata, R and SAS].
- Define economic concepts needed to analyze issues in the business and popular press.
- Identify the function of key economic institutions, such as the Federal Reserve System.
- Employ an economic theory or model to analyze the impact of changes in economic variables.
- Assess the potential impact of government interventions on individuals, markets, and/or the macroeconomy.

- Clean and manipulate real-world data from sources such as social media, housing, health, financial and public [Census and Current Population Survey].

College Core Requirements

Business Core Requirements

All undergraduate students in the Driehaus College of Business complete foundational courses in the areas of accountancy, economics, finance, management, and marketing. The core curriculum also includes courses that emphasize the increasingly quantitative and technological nature of business, the importance of the entrepreneurial mindset, and how students can use their business education to address important social challenges.

Course Requirements

For a student to complete the Bachelor of Science in Business, the following Business Core courses totaling at least 60.0 hours are required:

Course	Title	Quarter Hours
Business Core Courses		
ACC 101	INTRODUCTION TO ACCOUNTING I ¹	4
ACC 102	INTRODUCTION TO ACCOUNTING II ¹	4
BUS 101	INTRODUCTION TO DRIEHAUS: BUSINESS FUNDAMENTALS AND THE ENTREPRENEURIAL MINDSET	4
BUS 102	BUSINESS ANALYTICS	4
BUS 103	BUSINESS FOR SOCIAL GOOD	4
ECO 105	PRINCIPLES OF MICROECONOMICS	4
ECO 106	PRINCIPLES OF MACROECONOMICS	4
FIN 310	INTRODUCTION TO FINANCE	4
MAT 137	BUSINESS STATISTICS	4
MGT 300	PRINCIPLES OF MANAGEMENT	4
MGT 301	PRINCIPLES OF OPERATIONS MANAGEMENT ⁴	4
MKT 301	PRINCIPLES OF MARKETING	4
Business Technology ²		
Select one of the following:		4
BUS 202	BUSINESS TECHNOLOGY	
CSC 241	INTRODUCTION TO COMPUTER SCIENCE I	
MIS 360	SYSTEMS ANALYSIS AND DESIGN	
Business Communication ³		
Select one of the following:		4
MKT 276	EFFECTIVE BUSINESS COMMUNICATION	
ORGC 201		
Global Business Perspective ⁵		
Select one of the following:		4
ECO 316	EUROPEAN ECONOMIC HISTORY	
ECO 330	RADICAL RESPONSES TO CAPITALISM	
ECO 333	TOPICS IN GLOBAL ECONOMIES	
ECO 334	UNDERSTANDING CHINA'S ECONOMY	
ECO 360	ECONOMICS OF LOW-INCOME COUNTRIES	
ECO 361	INTERNATIONAL TRADE	
ECO 362	INTERNATIONAL MONETARY ECONOMICS	
ECO 363	ECONOMICS OF THE EUROPEAN UNION	

FIN 340	INTERNATIONAL FINANCE
FIN 355	GLOBAL IPOs & VENTURE CAPITAL
ICS 350	INTERNATIONAL BUSINESS SEMINAR
MGT 354	GLOBAL HUMAN RESOURCE MANAGEMENT
MGT 357	INTERNATIONAL BUSINESS
MKT 340	MARKETING ACROSS CULTURES: A CULTURAL PERSPECTIVE ON MULTICULTURAL MARKETS
MKT 358	MARKETING IN A GLOBAL ENVIRONMENT
MKT 360	INTERNATIONAL MARKETING
SOC 217	WORK IN A GLOBALIZED WORLD
A course taken as part of a term-long study abroad program	

¹ Strobel students take specially designated sections of all required ACC classes, including ACC 101 and ACC 102 (excluding ACC 250 and ACC 300).

² Actuarial Science and Economic Data Analytics majors must take CSC 241.

MIS majors must take MIS 360.

³ MKT majors and Sales minors must take MKT 276.

⁴ MGT 301-H is required if pursuing the Management Honors Program.

⁵ A course taken for Global Business Perspective that is in a student's major or minor field must be completed with a minimum grade of C-.

Business Core Timeline

- BUS 101, BUS 102 and BUS 103 are intended to be completed by students during their first year of enrollment in the college.
- Business core requirements may be prerequisites to other courses.
- Planning is essential to a student's graduation timeline.
- Academic advisors work with students to co-create customized degree completion plans and assist with balancing course load.

Business Ethics

All undergraduate students in the Driehaus College of Business complete a course in Business Ethics. It is recommended students take MGT 248 or PHL 248 in Philosophical Inquiry or MGT 228 or REL 228 in Religious Dimensions in the Liberal Studies Program (or University Honors Program) Requirements.

Second Majors and Minors

The addition of a second major or minor may affect the Business Core classes required for a student. Meet with an academic advisor to confirm requirements.

Math Requirements for all business majors (except Actuarial Science majors)

- MAT 137 may be replaced by MAT 348 or MAT 351.

Grade Minimum Requirements for Economic Data Analytic Major

A minimum grade of C- is required for the following: ACC 101, ACC 102, BUS 101, BUS 102, BUS 103, CSC 241, ECO 105, ECO 106, MAT 137, and any ECO course used for Global Business Perspective.

Liberal Studies Requirements

Honors program requirements can be found in the individual Colleges & Schools section of the University Catalog. Select the appropriate college or school, followed by Undergraduate Academics and scroll down.

First Year Program		Hours
Chicago Quarter		
LSP 110	DISCOVER CHICAGO	4
or LSP 111	or EXPLORE CHICAGO	
Focal Point		
LSP 112	FOCAL POINT SEMINAR	4
Writing		
WRD 103	COMPOSITION AND RHETORIC I ¹	4
WRD 104	COMPOSITION AND RHETORIC II ¹	4
Quantitative Reasoning		
Not Required		
Sophomore Year		
Race, Power, and Resistance		
LSP 200	SEMINAR ON RACE, POWER, AND RESISTANCE	4
Junior Year		
Experiential Learning		
Required		4
Senior Year		
Capstone		
ICS 392	SENIOR SEMINAR ¹	4

¹ Students must earn C- or better in this course.

Learning Domains

Arts and Literature (AL) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/arts-and-literature/>)

- 3 AL Courses Required

Historical Inquiry (HI) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/historical-inquiry/>)

- 2 HI Courses Required

Math and Computing (MC) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/math-and-computing/>)

- Not Required

Philosophical Inquiry (PI) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/philosophical-inquiry/>)

- 2 PI Courses Required¹

Religious Dimensions (RD) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/religious-dimensions/>)

- 2 RD Courses Required¹

Scientific Inquiry (SI) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/scientific-inquiry/>)

- 1 Lab Course Required

Social, Cultural, and Behavioral Inquiry (SCBI) (<https://catalog.depaul.edu/undergraduate-core/liberal-studies-program/liberal-studies-learning-domains/social-cultural-and-behavioral-inquiry/>)

- 1 SCBI Course Required

¹ PHL 248 / MGT 248 is required in PI or REL 228 / MGT 228 is required in RD.

Notes

Specified required courses within Liberal Studies may have grade minimums (e.g. C- or better). Please consult your advisor or your college and major requirements.

Courses offered in the student's primary major cannot be taken to fulfill LSP Domain requirements. If students double major, LSP Domain courses may double count for both LSP credit and the second major. Students who choose to take an experiential learning course offered by the major may count it either as a general elective or the Experiential Learning requirement.

In meeting learning domain requirements, no more than one course that is outside the student's major and is cross-listed with a course within the student's major, can be applied to count for LSP domain credit. This policy does not apply to those who are pursuing a double major or earning BFA or BM degrees.

Course Requirements

In addition to ECO 105 and ECO 106 a student majoring in the Honors Track in Economics is required to complete the following courses totaling 38.0 hours:

Course	Title	Quarter Hours
ECO 250	CAREER PREPARATION FOR ECONOMICS MAJORS	2
ECO 304	ANALYTICS FOR ECONOMICS	4
ECO 305	INTERMEDIATE MICROECONOMICS	4
ECO 306	INTERMEDIATE MACROECONOMICS	4
ECO 315	INTRODUCTION TO MONEY AND BANKING	4
ECO 376	TIME SERIES ANALYSIS	4
ECO 377	ECONOMIC ANALYTICS USING SAS & R	4
Select one from:		4
ECO 380	MATHEMATICAL ECONOMICS	
MAT 135	BUSINESS CALCULUS I	
MAT 150	CALCULUS I	
MAT 160	CALCULUS FOR MATHEMATICS AND SCIENCE MAJORS I	
MAT 170	CALCULUS FOR LIFE SCIENCES I	
Select one from an empirical or data-focused elective:		4
ECO 310	URBAN ECONOMICS	
ECO 314	ECONOMICS OF THE PUBLIC SECTOR	
ECO 318	LABOR ECONOMICS AND ORGANIZATION	

ECO 336	EXPLORING ECONOMICS & STATISTICS THROUGH SPORTS	
ECO 360	ECONOMICS OF LOW-INCOME COUNTRIES	
Select one elective of the following (cannot also be taken above):		4
ECO 307	MANAGERIAL DECISION MAKING	
ECO 308	BUSINESS STRATEGY	
ECO 310	URBAN ECONOMICS	
ECO 312	THE CHICAGO ECONOMY	
ECO 313	MARKET STRUCTURE AND REGULATION OF BUSINESS	
ECO 314	ECONOMICS OF THE PUBLIC SECTOR	
ECO 316	EUROPEAN ECONOMIC HISTORY	
ECO 317	AMERICAN ECONOMIC HISTORY	
ECO 318	LABOR ECONOMICS AND ORGANIZATION	
ECO 319	ECONOMICS AND GENDER	
ECO 320	ECONOMICS OF RELIGION	
ECO 321	LAW & ECONOMICS	
ECO 322	FINANCIAL MARKET REGULATION	
ECO 325	THE ECONOMICS OF POVERTY	
ECO 326	HEALTH ECONOMICS	
ECO 330	RADICAL RESPONSES TO CAPITALISM	
ECO 333	TOPICS IN GLOBAL ECONOMIES	
ECO 334	UNDERSTANDING CHINA'S ECONOMY	
ECO 335	SUSTAINABLE STRATEGIES FOR ENERGY AND THE ENVIRONMENT	
ECO 336	EXPLORING ECONOMICS & STATISTICS THROUGH SPORTS	
ECO 340	DEVELOPMENT OF ECONOMIC THOUGHT	
ECO 341	BEHAVIORAL ECONOMICS	
ECO 359	DEVELOPMENT ECONOMICS	
ECO 360	ECONOMICS OF LOW-INCOME COUNTRIES	
ECO 361	INTERNATIONAL TRADE	
ECO 362	INTERNATIONAL MONETARY ECONOMICS	
ECO 363	ECONOMICS OF THE EUROPEAN UNION	
ECO 379	GAME THEORY	
ECO 398	SPECIAL TOPICS (multiple topics may be used)	
ECO 399	INDEPENDENT STUDY	

ECO 393 may not be used towards the major.

ECO 395 may not be taken by students in the Driehaus College of Business.

Career Management Course

Students are required to complete the Career Course (250) associated with the major. Students who double major may choose the Career Course (250) associated with either major provided that hours for graduation are satisfied. Students should take the Career Course as soon as possible.

Global Business Perspective

If an ECO course is shared between Global Business Perspective and the Economics major, additional hours of Open Elective credit are required. Any ECO course must be passed with C- or higher.

Open Electives

Open elective credit (22.0 hours) is needed to meet the minimum graduation requirement of 192 hours.

Combined Bachelor's + Master's Program Participants

Students admitted to the Economics Combined Bachelor's + Master's program may apply up to three approved graduate course(s) towards undergraduate Economics major electives.

Graduation Requirements

All Economics (ECO) courses and any other courses used toward the Economics Data Analytics major must be completed with a minimum grade of C- and with a combined GPA of 2.000 or higher.