

Economics, B.S.

Degree Requirements

To receive the B.S. degree in Economics, students must complete at least 360 units, consisting of the requirements for Mathematics, Quantitative Analysis, Economic Core, Economic Electives, Senior Requirement, University Core, and a Minor.

Mathematics Requirements

		Units
21-120	Differential and Integral Calculus	10-20
or 21-111 & 21-112	Differential Calculus and Integral Calculus	
21-256	Multivariate Analysis	9
or 21-259	Calculus in Three Dimensions	
21-240	Matrix Algebra with Applications	10
or 21-241	Matrices and Linear Transformations	

Quantitative Analysis Requirements

		Units
73-265	Economics and Data Science	9
73-274	Econometrics I	9
73-374	Econometrics II	9
or 73-423	Forecasting for Economics and Business	
or 70-467	Machine Learning for Business Analytics	

Economic Core Requirements

		Units
73-102	Principles of Microeconomics	9
or 73-104	Principles of Microeconomics Accelerated	
73-103	Principles of Macroeconomics	9
73-230	Intermediate Microeconomics	9
73-240	Intermediate Macroeconomics	9
70-340	Business Communications	9
70-345	Business Presentations	9

Economics Electives (54 Units)

Students must take six economics elective courses. Economics elective courses are those numbered 73-300 or higher.

Senior Requirement

		Units
73-497	Senior Project	12
or 73-500 & 73-501	Tepper College Honors Thesis I and Tepper College Honors Thesis II	

Note: Students in the BS in Economics who complete an Honors Thesis in economics may use 73-497 (Senior Project) as an economics elective.

Minor

In order to obtain the degree, students must complete a minor from another academic discipline. For students electing to complete an additional major or dual degree, the minor requirement is waived.

University Core

As part of all Tepper School undergraduate degrees, students must complete general education coursework in the liberal arts and

sciences. These courses connect students to the vast array of academic disciplines offered at CMU and offer an opportunity for students to explore intellectual interests in new ways to meet their academic goals.

The University Core offers deliberative choice in selecting courses to meet the general education that aligns with university competencies. Students select courses from particular CMU departments and two courses as free electives. External transfer courses can be used to fulfill University Core Requirements 2-5.

University Core Requirement 1: CMU First Year Writing (9 units)

Semester Long Writing Course:

- 76-101 Interpretation and Argument
- 76-102 Advanced First Year Writing: Special Topics

OR Select 2 Mini Writing Courses:

- 76-106 Writing about Literature, Art and Culture
- 76-107 Writing about Data
- 76-108 Writing about Public Problems

University Core Requirement 2: Scientific Reasoning (9+ units)

- Any Biological Sciences course 03-100 or higher
- Any Chemistry course 09-100 or higher
- Any Computational Biology course 02-100 or higher
- Any Computer Sciences course 15-100 or higher
- Any Physics course 33-100 or higher
- Any Psychology course 85-102 or higher
- Any Robotics course 16-100 or higher

University Core Requirement 3: Information Literacy (9+ units)

- Any Philosophy course 80-100 or higher
- Any Information Systems course 67-100 or higher
- Any Social and Decision Science course 88-100 or higher

University Core Requirement 4: Global, Cultural, and Diverse Perspectives (18+ units)

- Any History course 79-100 or higher
- Any English course 76-200 or higher
- Any Institute for Strategy and Technology course 84-001 or higher
- Any Languages, Cultures, and Applied Linguistics course 82-100 or higher

Please note that this requirement requires at least 18 units (two or more classes) to complete.

University Core Requirement 5: Free Electives (18+ units)

Any Carnegie Mellon academic course excluding Business (70-xxx), Economics (73-xxx), Physical Education (69-xxx), StuCo [Student-Led] (98-xxx), 21-270 Introduction to Mathematical Finance, or any other course within the primary major's curriculum requirements.

Core @ Carnegie Mellon

All undergraduate students are required to take 99-101 (<http://coursecatalog.web.cmu.edu/search/?P=99-101>) Core @ Carnegie Mellon to graduate (completed during the first year).