

Curriculum Guidelines for Economic Science

Recommendations for complying with the program distribution requirements are described below. Students earn a Bachelor of Science degree in Economic Science after completing 15 units of coursework. This coursework includes the program distribution requirement (10 units), the Humanities and Arts Requirement (2 units), the Interactive Qualifying Project (1 unit), free electives (5/3), and physical education (1/3).

Economics (3 units)

Students can choose from among the following courses in economic science (ECON2110 and ECON2120 are required):

- ECON1110 Introductory Microeconomics
- ECON1120 Introductory Macroeconomics
- ECON1130 Introduction to Econometric Modeling
- ECON2110 Intermediate Microeconomics
- ECON2120 Intermediate Macroeconomics
- ECON2125 Development Economics
- ECON2117 Environmental Economics
- ECON21XX Information Economics and Policy

In addition, students may arrange to take Economics courses at other Worcester Consortium schools. ISPs can also be arranged on a variety of economic topics.

Economics and/or Management (2/3 unit)

Students can take additional courses or ISPs in Economics or choose from among the following courses in management (ACC1100 is required):

- ACC1100 Financial Accounting
- ACC2101 Management Accounting
- OIE2850 Engineering Economics
- FIN2200 Financial Management
- FIN2250 Financial System of the United States
- FIN2260 Investment and Security Analysis

Other Social Science (1 unit)

Students fulfill this requirement by taking 3 courses in social science fields other than economics, including law, political science, psychology, public policy, sociology, and system dynamics.

Modeling Techniques (2/3 units)

Students may choose from among the following social science modeling courses:

- SD1510 Introduction to System Dynamics Modeling
- SD1520 System Dynamics Modeling
- SD2530 Advanced Topics in System Dynamics Modeling

ISPs in advanced econometrics may also be used to fulfill this requirement.

Mathematics (2 units)

Must include differential equations, integral calculus, and statistics. MA1021-24, MA2051, and MA2611 are recommended.

Basic Science (1 unit)

Students may take any combination of courses in the physical, chemical, or biological sciences.

Electives (2/3 unit)

Electives must be approved by the Economics Science Program Review Committee.

Major Qualifying Project (1 unit)

The MQP is expected to provide an integrative capstone experience in economic science.