Business, Entrepreneurship and Organizations

Business, Entrepreneurship and Organizations (BEO) is a multidisciplinary concentration that provides a rigorous and synergistic program in the study of commercial activity grounded in economics, sociology and engineering. BEO focuses on the formation, growth, and organization of new ventures, innovation in commercial applications, financial markets and the marketplace, and management and organizational theory. Concentrators seek to understand the basic principles, approaches and vocabulary relevant to the study of entrepreneurship from the disciplines of economics, organizational sociology and engineering. Building on this multidisciplinary base, students develop specialized expertise in one of the three disciplinary approaches, with special emphasis on critical reasoning and quantitative research methods. In senior year capstone projects, students apply and integrate multi-disciplinary learning by working in groups on real world projects, including the creation of new ventures. BEO students interested in the theory and practice of addressing social challenges might consider the Engaged Scholars Program (https://www.brown.edu/academics/business-entrepreneurship-organizations/beo-engaged-scholar-program-esp).

The three tracks of the concentration are as follows:

1. Business Economics
2. Organizational Studies
3. Entrepreneurship and Technology Management

Upon completion of all concentration requirements, students receive the Bachelor of Arts (A.B.) degree in Business, Entrepreneurship and Organizations.

The Curriculum

Business Economics Track
(Effective beginning with the graduating class of 2021)

Foundation Requirements (foundation requirements must be completed before taking the capstone in fall of senior year)

- ECON 0110 Principles of Economics 1
- ECON 1110 Intermediate Microeconomics 1
- SOC 1311 Micro-Organizational Theory: Social Behavior in Organizations 1
- SOC 1315 Macro-Organizational Theory: Organizations in Social Context 1
- ENGN 0020 Transforming Society-Technology and Choices for the Future 1
  or ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice 1

Math and Statistics Requirements

- MATH 0100 Introductory Calculus, Part I 1
  or MATH 0170 Advanced Placement Calculus
  or ECON 0170 Essential Mathematics for Economics
  Or AP BC Calculus score of 4 or higher
  Or IB High-level Math minimum score of 5 (IB Standard-level not accepted)
- ECON 1620 Introduction to Econometrics 1

Track Requirements

- ECON 0710 Financial Accounting 1
- ECON 1210 Intermediate Macroeconomics 1

Capstone: one-semester required (must be taken fall of senior year)

- ECON 1930C BEO Capstone I: Business Economics Track 1

Total Credits 15

(Effective for graduating classes through 2020)

Foundation Requirements (foundation requirements must be completed before taking the capstone in fall of senior year)

- ECON 0110 Principles of Economics 1
- ECON 1110 Intermediate Microeconomics 1
- SOC 1311 Micro-Organizational Theory: Social Behavior in Organizations 1
- SOC 1315 Macro-Organizational Theory: Organizations in Social Context 1
- ENGN 0020 Transforming Society-Technology and Choices for the Future 1
  or ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice 1

Math and Statistics Requirements

- MATH 0090 Introductory Calculus, Part I 1
- ECON 1620 Introduction to Econometrics 1

Track Requirements

- ECON 0710 Financial Accounting 1
- ECON 1210 Intermediate Macroeconomics 1
- ECON 1710 Investments I 1
- ECON 1720 Corporate Finance 1

One Data Methods-intensive course from the following list: 1

- ECON 1301 Economics of Education I 1
- ECON 1305 Economics of Education: Research
- ECON 1310 Labor Economics 1
- ECON 1355 Environmental Issues in Development Economics 1
- ECON 1360 Health Economics 1
- ECON 1375 Inequality of Opportunity in the US 1
- ECON 1400 The Economics of Mass Media 1
- ECON 1420 Urbanization in China 1
- ECON 1480 Public Economics 1
- ECON 1510 Economic Development 1
- ECON 1520 The Economic Analysis of Institutions 1
- ECON 1530 Health, Hunger and the Household in Developing Countries 1
- ECON 1629 Applied Research Methods for Economists 1
- ECON 1630 Econometrics I 1
- ECON 1640 Econometrics II 1
- ECON 1650 Financial Econometrics 1
- ECON 1660 Big Data 1
- ECON 1759 Data, Statistics, Finance 1
- ECON 1765 Finance, Regulation, and the Economy: Research 1

One 1000-level economics course, including a second data methods intensive course from the list above 1

Capstone: one-semester required (must be taken fall of senior year) 1
Organizational Studies Track
(Effective with the graduating class of 2021)

Foundation Requirements (foundation requirements must be completed before taking the capstone in fall of senior year)

- ECON 0110 Principles of Economics
- ECON 1110 Intermediate Microeconomics
- SOC 1311 Micro-Organizational Theory: Social Behavior in Organizations
- SOC 1315 Macro-Organizational Theory: Organizations in Social Context
- ENGN 0020 Transforming Society-Technology and Choices for the Future
- or ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice

Math and Statistics Requirements

- MATH 0100 Introductory Calculus, Part I
- or MATH 0170 Advanced Placement Calculus
- or ECON 0170 Essential Mathematics for Economics
- Or AP BC Calculus with a score of 4 or higher
- Or IB High-level Math with a minimum score of 5 (IB Standard-level is not accepted)
- SOC 1100 Introductory Statistics for Social Research
- or APMA 0650 Essential Statistics
- or ECON 1620 Introduction to Econometrics

Track Requirements

One Introduction to Research Methods course (selected from the following): 1
- SOC 1020 Methods of Social Research
- SOC 1050 Methods of Research in Organizations

Two Organization-Relevant Electives (OREs) (the following are approved examples-please consult with Courses@Brown/BEO website for current offerings): 2

- SOC 1110 Principles of Economics
- SOC 1111 Micro-Organizational Theory: Social Behavior in Organizations
- SOC 1311 Micro-Organizational Theory: Social Behavior in Organizations
- SOC 1315 Macro-Organizational Theory: Organizations in Social Context
- ENGN 0020 Transforming Society-Technology and Choices for the Future
- or ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice

Math and Statistics Requirements

- MATH 0100 Introductory Calculus, Part I
- or MATH 0170 Advanced Placement Calculus
- or ECON 0170 Essential Mathematics for Economics
- Or AP BC Calculus with a score of 4 or higher
- Or IB High-level Math with a minimum score of 5 (IB Standard-level is not accepted)
- SOC 1100 Introductory Statistics for Social Research
- or APMA 0650 Essential Statistics
- or ECON 1620 Introduction to Econometrics

Track Requirements

One Introduction to Research Methods course (selected from the following): 1
- SOC 1020 Methods of Social Research
- SOC 1050 Methods of Research in Organizations

Two Organization-Relevant Electives (OREs) (the following are approved examples-please consult with Courses@Brown/BEO website for current offerings): 2

- SOC 1110 Principles of Economics
- SOC 1111 Micro-Organizational Theory: Social Behavior in Organizations
- SOC 1311 Micro-Organizational Theory: Social Behavior in Organizations
- SOC 1315 Macro-Organizational Theory: Organizations in Social Context
- ENGN 0020 Transforming Society-Technology and Choices for the Future
- or ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice

American Higher Education in Historical Context

The U.S. Health Care System: Case Studies in Financing, Delivery, Regulation and Public Health

Leading Social Ventures - Social Entrepreneurship in Action

Investigating Modes of Social Change

Social Entrepreneurship

Regulation and Compliance

Prosperity: The Ethics and Economics of Wealth Creation

Politics, Markets and States in Developing Countries

Law and Society

The Enlightened Entrepreneur: Changemakers, Inspired Protagonists and Unreasonable People

Sociology of the Legal Profession

One Advanced Organization Studies course (AOS) (the following are approved EXAMPLES-please consult with Courses@Brown/BEO website for current offerings):

AOS courses directly employ and extend the theories and perspectives introduced by the foundational Organizational Studies courses. They are either taught by core Organization Studies faculty or vetted on a regular basis by the Organization Studies track advisor, to ensure that they thoroughly incorporate Organization Studies perspectives and focus primarily on organizational processes and phenomena.

- CLPS 1730 Psychology in Business and Economics
- ECON 1790 Corporate Governance and Management
- MPA 2020 Public Budgeting and Management
- PLCY 1700V Nonprofit Organizations
- PLCY 1700Y Crisis Management
- PLCY 2350 Thinking, Planning and Acting Strategically
- SOC 1060 Leadership in Organizations
- SOC 1870A Investing in Social Change
- SOC 1870L The Economic Foundations of Everyday Life
- SOC 1871O Law, Innovation and Entrepreneurship
- SOC 1872H Sociology of FIRE: Finance, Insurance, + Real Estate

One Advanced Research Methods course (ARM) (the following are approved examples-please consult with Courses@Brown/BEO website for current offerings):

ARM courses allow students to deepen and/or broaden their expertise in one or more methods of empirical inquiry.

- ANTH 1940 Ethnographic Research Methods
- ECON 1630 Econometrics I
- EDUC 1100 Introduction to Qualitative Research Methods
- PLCY 1200 Program Evaluation
- MPA 2035 Statistics II for Public Policy Analysis
- MPA 2040 Statistics for Program Evaluation
- PLCY 2050 Program Evaluation
- SOC 1117 Focus Groups for Market and Social Research
- SOC 1118 Context Research for Innovation
- SOC 1120 Market and Social Surveys
- SOC 1127 EPIC: Ethnographic Praxis in Industry
Organizational Studies Track
(Effective for graduating classes through 2020)

Foundation Requirements (foundation requirements must be completed before taking the capstone in fall of senior year)

- ECON 0110 Principles of Economics
- ECON 1110 Intermediate Microeconomics
- SOC 1311 Micro-Organizational Theory: Social Behavior in Organizations
- SOC 1315 Macro-Organizational Theory: Organizations in Social Context
- ENGN 0020 Transforming Society-Technology and Choices for the Future
- ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice
- MATH 0090 Introductory Calculus, Part I
- SOC 1100 Introductory Statistics for Social Research
- or APMA 0650 Essential Statistics
- or ECON 1620 Introduction to Econometrics

Math and Statistics Requirements

Track Requirements

- One introduction to Research Methods course (selected from the following):
  - SOC 1020 Methods of Social Research
  - SOC 1050 Methods of Research in Organizations

- Two Organization-Relevant Electives (OREs) (the following are approved examples-please consult with Courses@Brown/BEO website for current offerings):

Any from the Advanced Research Methods or Advanced Organization-Studies lists; or

- AMST 1610A American Advertising: History and Consequences
- ECON 1760 Financial Institutions
- EDUC 1020 The History of American Education
- EDUC 1040 Sociology of Education
- EDUC 1060 Politics and Public Education
- EDUC 1150 Education, the Economy and School Reform

Capstone: two-semesters required

- BEO 1930A BEO Capstone I: Organizational Studies Track
- BEO 1940A BEO Capstone II: Organizational Studies Track

Total Credits: 15

1 If a student in the Organizational Studies track completes only the fall semester of the capstone course (BEO 1930A), she/he must take one additional ARM or AOS course.

Business, Entrepreneurship and Organizations
One Advanced Research Methods course (ARM) (the following are approved examples—please consult with Courses@Brown/BEO website for current offerings):

ARM courses allow students to deepen and/or broaden their expertise in one or more methods of empirical inquiry.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ANTH 1940</td>
<td>Ethnographic Research Methods</td>
</tr>
<tr>
<td>ECON 1390</td>
<td>Research Methods for Economists</td>
</tr>
<tr>
<td>ECON 1630</td>
<td>Econometrics I</td>
</tr>
<tr>
<td>EDUC 1100</td>
<td>Introduction to Qualitative Research Methods</td>
</tr>
<tr>
<td>EDUC 1160</td>
<td>Evaluating the Impact of Social Programs</td>
</tr>
<tr>
<td>PHP 1320</td>
<td>Survey Research in Health Care</td>
</tr>
<tr>
<td>PLCY 1200</td>
<td>Program Evaluation</td>
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<td>MPA 2035</td>
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<td>Market and Social Surveys</td>
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<td>SOC 1127</td>
<td>EPIC: Ethnographic Praxis in Industry</td>
</tr>
<tr>
<td>SOC 1260</td>
<td>Market Research in Public and Private Sectors</td>
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<tr>
<td>SOC 1340</td>
<td>Principles and Methods of Geographic Information Systems</td>
</tr>
</tbody>
</table>

Capstone: 1-2

For the class graduating 2018: one-semester required (must be taken fall of senior year)

<table>
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<tr>
<td>BEO 1930A</td>
<td>BEO Capstone I: Organizational Studies Track</td>
</tr>
</tbody>
</table>

For the classes graduating 2019 and 2020: two semesters required

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<td>BEO 1930A</td>
<td>BEO Capstone I: Organizational Studies Track</td>
</tr>
<tr>
<td>&amp; BEO 1940A</td>
<td>BEO Capstone II: Organizational Studies Track</td>
</tr>
</tbody>
</table>

Total Credits 14-15

1 Or an optional two-semester capstone from the BEO 1930 and 1940 series

Entrepreneurship and Technology Management Track

Foundation Requirements (foundation requirements must be completed before taking the capstone in fall of senior year)

<table>
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<tr>
<td>ECON 0110</td>
<td>Principles of Economics</td>
</tr>
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<td>ECON 1110</td>
<td>Intermediate Microeconomics</td>
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<td>SOC 1311</td>
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Math and Statistics Requirements

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<th>Course Code</th>
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<tbody>
<tr>
<td>MATH 0200</td>
<td>Intermediate Calculus (Physics/Engineering)</td>
</tr>
<tr>
<td>or APMA 0330</td>
<td>Methods of Applied Mathematics I, II</td>
</tr>
<tr>
<td>SOC 1100</td>
<td>Introductory Statistics for Social Research</td>
</tr>
<tr>
<td>or APMA 0650</td>
<td>Essential Statistics</td>
</tr>
<tr>
<td>or ECON 1620</td>
<td>Introduction to Econometrics</td>
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</tbody>
</table>

Track Requirements

1 One gateway course in Engineering or another physical science
2 Five courses that develop expertise in a technical subfield
3 Capstone: two-semesters required (must be taken in fall and spring of senior year)
4 BEO 1930A BEO Capstone I: Entrepreneurship and Technology Management Track
4 BEO 1940A BEO Capstone II: Entrepreneurship and Technology Management Track

Total Credits 16

1 For specific gateway and subfield courses, refer to the BEO website.
2 Technical subfields include Biotechnology/Biomaterials, Information Technology and Computer Engineering, Energy and the Environment, and others.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Helvetica was used instead of Arial.

The editor may contact Leepfrog for a draft with the correct fonts in place.