Economics (ECON)

The Department of Economics helps students develop a clear understanding of how to apply economic theory to real-world policy issues. Along the way a student will learn a marketable, transferable skill set that makes them a valuable asset to any company. We administer a rigorous curriculum with a unique perspective on economics through shared resources between the Department of Finance, Insurance, Real Estate and Law, and the Department of Economics.

Enhance your marketable skills through:

- Business Foundations, International Studies, Management, Marketing, Mathematics or Statistic minors
- Actuarial Science, Economic Geography, Entrepreneurship, Legal Studies, or Statistics certificates
- Student Organization Participation
- Internships
- Study Abroad

Alumni Careers:

- Actuary
- Chief Operating Officer
- Credit Analyst/Loan Officer
- Data Analyst
- Director of Recruiting
- Economic Consultant
- Financial Officer/Planner
- Global Mobility Consultant
- Lawyer
- Market Research Analyst
- Statistical Analyst
- Sr. Director of Development

Student Organization:

- Economics Student Organization (ESO)

Professional Organization:

- Omicron Delta Epsilon

Faculty Advisors:

Harry Ellis

In addition to being a faculty advisor, I teach ECON 1100 and 1110. I am also a big fan of our Mean Green sports teams, the Dallas Mavs, and the Texas Rangers! Harry.Ellis@unt.edu

Jiyoung Kwon

With a Master of Arts in Economics from Michigan State, I teach ECON 3550, 4140, and 4630.
Jiyoung.Kwon@unt.edu

Guillermo Covarrubias

With a PhD in Economics from Texas Tech, I teach ECON 3560, 4020, 4030, 4100, 4850, and 4920.
Guillermo.Covarrubias@unt.edu
Bachelor of Science: Major in ECONOMICS 2022-2023  
Catalog Year

Requirements

• 120 total semester hours
• 42 advanced hours
  • 24 advanced hours must be completed at UNT, including 12 advanced hours in your major
• A minimum of 30 hours must be completed at UNT
• Grades of C or better in all major coursework

University Core Requirements

**English:** 6 hours  
ENGL 1310  
ENGL 1320  

**Math:** 3 hours  
MATH 1710  

**Life and Physical Sciences:** 2 courses  
Choose from approved list  

**Creative Arts:** 3 hours  
Choose from approved list  

**Language, Philosophy, & Culture:** 3 hours  
Choose from approved list  

**US History:** 6 hours  
HIST 2610  
HIST 2620  

**American Government:** 6 hours  
PSCI 2305  
PSCI 2306  

**Social and Behavioral Sciences:** 3 hours  
ECON 1100 or ECON 1110  

**Component Area Option:** 6 hours  
(See approved list)

Major Requirements

ECON 1100  Principles of Microeconomics  
ECON 1110  Principles of Macroeconomics  
ECON 3550  Intermediate Micro -Theory  
ECON 3560  Intermediate Macro -Theory  
ECON 4870  Introduction to Econometrics  

Select 18 additional upper-division ECON hours at or above the 3000 level, including at least 9 hours from the following list:

ECON 4140  Managerial Economics  
ECON 4150  Public Economics  
ECON 4180  The Economics of Health Care  
ECON 4290  Labor Economics  
ECON 4420  Open Economy Macroeconomics Strategic  
ECON 4450  Behavior Across Market Structures  
ECON 4460  Industrial Organization and Public Policy  
ECON 4500  The Economics of Sports  
ECON 4510  History of Economic Thought  
ECON 4550  Law and Economics  
ECON 4650  Urban Economics  
ECON 4875  Empirical Linear Modeling  

Statistics Requirement (choose one)  
ECON 4630  Research Method for Economists OR  
MATH 3680  Applied Statistics

Math Requirement  
MATH 1710  Calculus I  
MATH 1720  Calculus II

Foreign Language Substitution

*Foreign Language:* 6 hours in one language, in addition to the University Core (prerequisites for LANG 2040 and 2050 are 1010 and 1020, or placement)  
(Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, Spanish, or American Sign Language)  
(See below for Foreign Language Substitutions.)  
2040  2050

*Foreign Language Substitution:*  
Bachelor of Science students can take MATH 1710, MATH 1720, and 2 of the following: MATH 2000, MATH 2700, MATH 2730, MATH 3000, MATH 3350, MATH 3410, MATH 3420, MATH 3610, MATH 3740, MATH 4060, MATH 4100, MATH 4200, MATH 4430, MATH 4450, MATH 4500, MATH 4520, MATH 4610 and MATH 4650.

Academic Advising

To schedule an appointment with a CLASS Academic Advisor, please call 940-565-2051

Harry Ellis (hellis@unt.edu),  
Jiyoungh Kwon (jiyoung.kwon@unt.edu)  
Dr. Guillermo Covarrubisa (guillermo.corrvarubas@unt.edu)
## Bachelor of Arts: Major in ECONOMICS
2022-2023 Catalog Year

### Requirements

- 120 total semester hours
- 42 advanced hours
  - 24 advanced hours must be completed at UNT, including 12 advanced hours in your major
- A minimum of 30 hours must be completed at UNT
- Grades of C or better in all major coursework

### University Core Requirements

**English:** 6 hours
- ENGL 1310 ________
- ENGL 1320 ________

**Math:** 3 hours
- MATH 1190 or MATH 1710 ________

**Life and Physical Sciences:** 2 courses
- ________ ________

**Creative Arts:** 3 hours
- Choose from approved list ________

**Language, Philosophy, & Culture:** 3 hours
- Choose from approved list ________

**US History:** 6 hours
- HIST 2610 ________
- HIST 2620 ________

**American Government:** 6 hours
- PSCI 2305 ________
- PSCI 2306 ________

**Social and Behavioral Sciences:** 3 hours
- ECON 1100 or ECON 1110 ________

**Component Area Option:** 6 hours (See approved list)

### Major Requirements

- ECON 1100 Principles of Microeconomics
- ECON 1110 Principles of Macroeconomics
- ECON 3550 Intermediate Micro-Theory
- ECON 3560 Intermediate Macroe-Theory
- ECON 4510 History of Economic Thought

Select 18 additional upper-division ECON hours at or above the 3000 level, including at least 9 hours from the following list:

- ECON 4140 Managerial Economics
- ECON 4150 Public Economics
- ECON 4180 The Economics of Health Care
- ECON 4290 Labor Economics
- ECON 4420 Open Economy Macroeconomics Strategic
- ECON 4450 Behavior Across Market Structures
- ECON 4460 Industrial Organization and Public Policy
- ECON 4500 The Economics of Sports
- ECON 4550 Law and Economics
- ECON 4875 Empirical Linear Modeling

**Statistics Requirement (chose one)**

- ECON 4630 Research Method for Economists OR
- MATH 3680 Applied Statistics

### Academic Advising

To schedule an appointment with a CLASS Academic Advisor, please call 940-565-2051.

Harry Ellis (hellis@unt.edu),
Jiyoung Kwon (jiyoung.kwon@unt.edu)
Guillermo Covarrubias (guillermo.covarrubias@unt.edu)
University Core (42 hours)

Please see the UNT catalog or the RCOB Undergraduate Programs Office in BLB 110 for specific core requirements.

Pre-Business Requirements (21 hours)

- **ECON 1100 & 1110 (6 hrs)** Principles of Economics
- **MATH 1190 (3 hrs)** Business Calculus
- **BCIS 2610 (3 hrs)** Introduction to Computers in Business
- **ACCT 2010 & 2020 (6 hrs)** Accounting Principles I & II
- **DSCI 2710 (3 hrs)** Data Analysis with Spreadsheets

Other Requirements (hours vary)

Communication: COMM 1010* Intro to Communication or TECM 2700 Technical Writing

Professional Development:

- **BUSI 1200**
- **BUSI 3100**
- **BUSI 3200 or other approved Professional Development course** (see advisor)
  - BUSI 1200 and BUSI 3100 must be completed prior to enrolling in BUSI 4940. BUSI 3200 may be taken prior to or concurrently with BUSI 4940.

Free Electives (to reach 120 hours; hours vary)

BUSI 1200 is expected to be completed prior to declaring a major. All of the professional development courses are 1 hour courses and must be completed with a grade of C or higher.

**IMPORTANT NOTICE:** In order to enroll in JR/SR level courses and file a degree plan, students must: complete 45 hours, complete the pre-business requirement courses with minimum grades of C; have a minimum 2.7 pre-business GPA; AND have a minimum 2.0 UNT cumulative GPA.

Professional Field Courses (18 hours; no substitutions)

- **ECON 3550^ (3 hrs)** Intermediate Micro–Theory
- **ECON 3560^^ (3 hrs)** Intermediate Macro–Theory
- **ECON 4140^^^^ (3 hrs)** Managerial Economics

Plus 9 advanced hrs approved in advance by the Economics Dept Advisor

- **Prerequisite:** ECON 1100 and MATH 1190 or MATH 1710 with a grade of "C" or higher
- **Prerequisite:** ECON 1100 and 1110 with a grade of "C" or higher
- **Prerequisite:** ECON 3550 and MATH 1190 or 1710

Note: to graduate with a degree in Business Economics, students must have a "B" or higher in both ECON 1100 and ECON 1110.

Supporting Field Courses (12 hours)

- **FINA 4500~ (3 hrs)** International Finance (no substitutions)

Plus 9 hours approved in advance by an Economics Department advisor. Courses in the College of Liberal Arts & Social Sciences may be counted as professional courses in the College of Business when authorized on a degree plan. ECON 4630, Research Methods for Economists, may not be used as an elective or a supporting course.

Most frequently used are:

- **ECON 4150**
- **ECON 4100**
- **ECON 4290**
- **ECON 4450**
- **ECON 4850**
- **ECON 4020**

**~Prerequisite:** FINA 3770 with a grade of "C" or higher

Internships - You may complete an internship for up to 3 hours of upper level course credit (but not economics course credit) with approval from the Economics Internships Coordinator, Dr. Guillermo Covarrubias. Please see www.economics.unt.edu/undergraduate/internships for more information.

**Note:** to graduate with a degree in Business Economics, students must have a "B" or higher in both ECON 1100 and ECON 1110.

A grade of "C" or higher is required in all Pre-Business, Professional Development, Business Foundation, Professional Field, and Supporting Field courses.

A 2.0 UNT, 2.0 Overall, and 2.0 Professional/Supporting Field GPA is required for graduation.

For more information on careers and companies recruiting graduates from this program, contact the Career Center at 940-565-2105

Attention: consult online degree audit for your correct catalog year.

www.cob.unt.edu/undergrad
## UNDERGRADUATE ECONOMICS COURSES
### PREREQUISITES AND TENTATIVE SCHEDULE

<table>
<thead>
<tr>
<th>COURSE AND TITLE</th>
<th>SEMESTER OFFERED</th>
<th>PREREQUISITE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 Current Economic Issues</td>
<td>Fall only. Spring only.</td>
<td>None</td>
</tr>
<tr>
<td>3000 Sec.001 – Economics of Everything</td>
<td>Fall only. Spring only.</td>
<td>None</td>
</tr>
<tr>
<td>3000 Sec.002 – All Things Internet</td>
<td>Fall only. Spring only.</td>
<td>None</td>
</tr>
<tr>
<td>3050 Econ of Consumption</td>
<td>Fall &amp; Spring</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>3150 Econ of Discrimination</td>
<td>Fall &amp; Spring</td>
<td>None</td>
</tr>
<tr>
<td>3200 Behavioral Economics</td>
<td>Fall &amp; Spring</td>
<td>None</td>
</tr>
<tr>
<td>3550 Intermediate Micro</td>
<td>Fall, Spring, Summer</td>
<td>Econ 1100 and either of Math 1190 or 1710</td>
</tr>
<tr>
<td>3560 Intermediate Macro</td>
<td>Fall, Spring, Summer</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>4020 Money &amp; Financial Institutions</td>
<td>Fall &amp; Spring</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>4030* Economic Cycles and Forecasting</td>
<td>Spring</td>
<td>Econ 1100, 1110, and 4630</td>
</tr>
<tr>
<td>4100 Comparative Econ Systems</td>
<td>Fall</td>
<td>Econ 1100 or 1110</td>
</tr>
<tr>
<td>4120* Managerial Economics</td>
<td>Fall &amp; Spring</td>
<td>Econ 3550 and either of Math 1190 or 1710</td>
</tr>
<tr>
<td>4150* Public Economics</td>
<td>Fall</td>
<td>Econ 3550</td>
</tr>
<tr>
<td>4290* Labor Economics</td>
<td>Fall</td>
<td>Econ 3550</td>
</tr>
<tr>
<td>4420* Open Economy Macroeconomics</td>
<td>Spring</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>4440 Natural Resources &amp; Environmental Economics</td>
<td>Fall &amp; Spring</td>
<td>Econ 1100</td>
</tr>
<tr>
<td>4450* Strategic Behavior</td>
<td>Spring &amp; Fall</td>
<td>Econ 3550</td>
</tr>
<tr>
<td>4500 Economics of Sports</td>
<td>Fall</td>
<td>Econ 3550</td>
</tr>
<tr>
<td>4510* History of Economic Thought</td>
<td>Spring</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>4550* Law and Economics</td>
<td>Spring</td>
<td>Econ 1100</td>
</tr>
<tr>
<td>4600 Economic Development</td>
<td>Spring</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>4630 Research Methods for Economists</td>
<td>Fall &amp; Spring</td>
<td>Econ 1100 and either of Math 1190 or 1710</td>
</tr>
<tr>
<td>4650* Urban and Regional Economics</td>
<td>Fall &amp; Spring</td>
<td>Econ 3550</td>
</tr>
<tr>
<td>4850 International Trade</td>
<td>Fall &amp; Spring</td>
<td>Econ 1100 and 1110</td>
</tr>
<tr>
<td>4855 US/Mexico Economic Relations</td>
<td>Fall</td>
<td>None</td>
</tr>
<tr>
<td>4870* Intro to Econometrics</td>
<td>Fall &amp; Spring</td>
<td>one of Econ 4630, Math 3680, or Dsci 3710 and either of Math 1190 or 1710</td>
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<tr>
<td>4875* Empirical Linear Modeling</td>
<td>Spring</td>
<td>Econ 4870</td>
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</table>

*Among 15 economics elective advanced hours, 9 hours must be selected from the following courses:

For BA: ECON 4030, 4100, 4140, 4150, 4290, 4450, 4500, 4550, 4630, 4870, 4875

For BS: ECON 4030, 4100, 4140, 4150, 4290, 4450, 4500, 4510, 4550, 4650, 4875

August 24, 2023
Table 1
Average Starting Salaries, by Major, Baccalaureate Degree Only, 2021

<table>
<thead>
<tr>
<th>Major</th>
<th>Average Salary</th>
<th># of Specialties in major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>$67,617</td>
<td>110</td>
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<tr>
<td>Math</td>
<td>$66,260</td>
<td>10</td>
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<tr>
<td>Computer Science</td>
<td>$63,421</td>
<td>61</td>
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<tr>
<td>Business Other</td>
<td>$62,515</td>
<td>26</td>
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<tr>
<td>Physics</td>
<td>$60,708</td>
<td>13</td>
</tr>
<tr>
<td>Economics</td>
<td>$59,790</td>
<td>21</td>
</tr>
<tr>
<td>Finance</td>
<td>$59,268</td>
<td>19</td>
</tr>
<tr>
<td>Chemistry</td>
<td>$57,867</td>
<td>6</td>
</tr>
<tr>
<td>Accounting</td>
<td>$57,557</td>
<td>14</td>
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<tr>
<td>Business Administration</td>
<td>$53,078</td>
<td>83</td>
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<tr>
<td>Architecture</td>
<td>$52,579</td>
<td>14</td>
</tr>
<tr>
<td>Political Science</td>
<td>$52,338</td>
<td>13</td>
</tr>
<tr>
<td>Geography</td>
<td>$51,769</td>
<td>13</td>
</tr>
<tr>
<td>International Studies</td>
<td>$51,471</td>
<td>17</td>
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<tr>
<td>Marketing</td>
<td>$50,988</td>
<td>24</td>
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<tr>
<td>Biology</td>
<td>$50,278</td>
<td>49</td>
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<tr>
<td>Health Sciences</td>
<td>$50,084</td>
<td>87</td>
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<tr>
<td>Public Administration</td>
<td>$48,633</td>
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<tr>
<td>Foreign Languages</td>
<td>$48,486</td>
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<tr>
<td>Earth Sciences</td>
<td>$48,300</td>
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<tr>
<td>Library Studies</td>
<td>$48,200</td>
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<tr>
<td>Philosophy</td>
<td>$47,700</td>
<td>5</td>
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<tr>
<td>Agriculture</td>
<td>$47,669</td>
<td>36</td>
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<tr>
<td>Anthropology &amp; Archaeology</td>
<td>$47,600</td>
<td>5</td>
</tr>
<tr>
<td>Family &amp; Consumer Sciences</td>
<td>$47,250</td>
<td>26</td>
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<tr>
<td>History</td>
<td>$47,242</td>
<td>12</td>
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<tr>
<td>Communications</td>
<td>$46,440</td>
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<tr>
<td>English</td>
<td>$46,006</td>
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<td>Sociology</td>
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<td>Arts</td>
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<td>General Studies</td>
<td>$44,100</td>
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<tr>
<td>Psychology</td>
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<tr>
<td>Education</td>
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<tr>
<td>Ministry</td>
<td>$40,731</td>
<td>13</td>
</tr>
</tbody>
</table>

Source: payscale.com and author's calculations
Figure 1:
Average Starting Salaries, by Major, Baccalaureate Degree Only, 2021
## Table 2
Average Mid-Career Salaries, by Major, Baccalaureate Degree Only, 2021

<table>
<thead>
<tr>
<th>Major</th>
<th>Average Salary</th>
<th># of Specialties in major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td>$117,520</td>
<td>10</td>
</tr>
<tr>
<td>Engineering</td>
<td>$112,872</td>
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<td>Economics</td>
<td>$111,843</td>
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<tr>
<td>Business Other</td>
<td>$107,196</td>
<td>26</td>
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<tr>
<td>Chemistry</td>
<td>$107,033</td>
<td>6</td>
</tr>
<tr>
<td>Computer Science</td>
<td>$105,354</td>
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<td>Finance</td>
<td>$103,879</td>
<td>19</td>
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<td>Physics</td>
<td>$101,200</td>
<td>13</td>
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<td>Accounting</td>
<td>$100,914</td>
<td>14</td>
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<tr>
<td>Political Science</td>
<td>$99,385</td>
<td>13</td>
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<td>International Studies</td>
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<td>12</td>
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<tr>
<td>Earth Sciences</td>
<td>$91,233</td>
<td>3</td>
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<tr>
<td>Biology</td>
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<td>49</td>
</tr>
<tr>
<td>Architecture</td>
<td>$89,179</td>
<td>14</td>
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<tr>
<td>Business Administration</td>
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<tr>
<td>Foreign Languages</td>
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<tr>
<td>History</td>
<td>$82,517</td>
<td>12</td>
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<td>$81,150</td>
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<td>Communications</td>
<td>$80,518</td>
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<tr>
<td>Philosophy</td>
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<tr>
<td>English</td>
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<tr>
<td>Anthropology &amp; Archaeology</td>
<td>$77,700</td>
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</tr>
<tr>
<td>Health Sciences</td>
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</tr>
<tr>
<td>Family &amp; Consumer Sciences</td>
<td>$75,008</td>
<td>26</td>
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<tr>
<td>Agriculture</td>
<td>$74,792</td>
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<tr>
<td>Psychology</td>
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<td>Arts</td>
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<tr>
<td>Sociology</td>
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<td>General Studies</td>
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<tr>
<td>Ministry</td>
<td>$62,592</td>
<td>13</td>
</tr>
<tr>
<td>Library Studies</td>
<td>$58,700</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: payscale.com and author's calculations
Figure 2: Average Mid-Career Salaries, by Major, Baccalaureate Degree Only, 2021