Program in Quantitative Social Science

Major planning worksheet

The major in Quantitative Social Science consists of courses to be selected as follows.

Prerequisites:
The QSS major requires honors standing at Dartmouth For details on this, see the guidelines in Organizations, Regulations, and Courses (the ORC).

(1) Programming: either COSC 1, ENGS 20, or another programming course approved by the QSS Chair.  

(2) Mathematics: MATH 3 and MATH 8.  Terms: __________  __________

(3) Introductory statistics: either ECON 10, GOV 10, MATH 10, QSS 15, PSYC 10, SOCY 10, or another introductory statistics course approved by the QSS Chair.  

(4) Intermediate statistics: one of ECON 20, GOV 19.01, MATH 40, MATH 50, or another intermediate level statistics course approved by the QSS Chair.  

(5) Modeling: either ECON 21, QSS 18/GOV 18, or another game theory course approved by the QSS Chair.  

(6) Introductory social science: one of ANTH 1, ANTH 6, ECON 1, EDUC 1, GEOG 1, GEOG 6, GOV 3, GOV 4, GOV 5, GOV 6, PSYC 1, SOC 1, or another course approved by the QSS Chair.  

Methods-oriented requirements:
(1) MATH 11, MATH 13, or MATH 22.  

(2) Two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 74</td>
<td>Machine Learning and Statistical Data Analysis</td>
</tr>
<tr>
<td>GEOG 50</td>
<td>Geographical Information Systems</td>
</tr>
<tr>
<td>GEOG 54</td>
<td>Geovisualization</td>
</tr>
<tr>
<td>MATH 36</td>
<td>Mathematical Models in the Social Sciences</td>
</tr>
<tr>
<td>MATH 50</td>
<td>Introduction to Linear Models</td>
</tr>
<tr>
<td>MATH 76</td>
<td>Topics in Applied Mathematics (to be approved by the QSS Chair)</td>
</tr>
<tr>
<td>QSS 17</td>
<td>Data Visualization</td>
</tr>
<tr>
<td>QSS 30</td>
<td>Special Topics in QSS</td>
</tr>
<tr>
<td>QSS 41</td>
<td>Analysis of Social Networks</td>
</tr>
</tbody>
</table>

(1) ______________________________________  Term: ________

(2) ______________________________________  Term: ________
The special topics course, QSS 30, may be taken more than once as long as different electives are selected. Moreover, with permission from the QSS Chair, students may substitute other courses for courses offered at Dartmouth for any of the two required courses listed above.

**Social science requirements:**
Four non-introductory courses that focus on a social science area of the student’s choosing. A student pursuing the major in QSS should consider the extent to which his or her social science courses are coherent, and the QSS Chair will be available to offer guidance on this.

__________________________  Term: ________
__________________________  Term: ________
__________________________  Term: ________
__________________________  Term: ________

**Research project requirement:**

To graduate with a major in QSS, a student must complete an independent research project. At the end of his or her third year on campus, each QSS major must choose one of two project options: either QSS 82, an intensive one-quarter project, or QSS 81, a three quarters honors thesis.

Term: _____________

More details on QSS can be found at [http://qss.dartmouth.edu](http://qss.dartmouth.edu), and students should email qss@dartmouth.edu with questions about the program. 09/2018