

Program in Quantitative Social Science

Major planning worksheet

Name _____

Graduation year _____

Dart ID _____

Date _____

Prerequisites

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

_____ Term: _____

(2) Mathematics: MATH 3 and MATH 8.

Term: _____ Term: _____

(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.

_____ Term: _____

(4) Intermediate statistics: one of ECON 20, GOV 19.01, MATH 40, MATH 50, QSS 54/SOCY 54 or another intermediate level statistics course approved by the QSS Chair.

_____ Term: _____

(5) Mathematical Modeling: either ECON 21, QSS 18/GOV 18, QSS 30.04/MATH 30.04, QSS 36 or another game theory course approved by the QSS Chair.

_____ Term: _____

(6) Introductory social science: one of ANTH 1, ANTH 3, ANTH 6, ANTH 9, ECON 1, EDUC 1, ENVS 3, GEOG 1, GEOG 6, GOVT 3, GOVT 4, GOVT 5, GOVT 6, LING 1, PBPL 5, PSYC 1, SOCY 1, SOCY 2, or another course approved by the QSS Chair.

_____ Term: _____

Core curriculum

QSS 17, Data Visualization _____ Term: _____

QSS 20, Modern Statistical Computing _____ Term: _____

Methods-oriented requirements

(1) MATH 11, MATH 13, MATH 22 (or COSC 70) _____ Term: _____

(2) One course from the following list:

COSC 74, Machine Learning and Statistical Data Analysis

GEOG 9.01, Geographical Information Systems

GEOG 54, Geovisualization

MATH 50, Introduction to Linear Models

MATH 76, Topics in Applied Mathematics (to be approved by the QSS Chair)

QSS 19, Advanced Data Visualization

QSS 30, Special Topics in QSS

QSS 36, Mathematical Models in the Social Sciences
QSS 41, Analysis of Social Networks
QSS 45, Artificial Intelligence and Machine Learning for Social Science

(1) _____

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 offered at Dartmouth for any of the 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 their social science courses are coherent, and the QSS Chair will be available to offer guidance on this. The student should be able to write in a few sentences what the theme is for their chosen social science classes.

Theme:

Example:

Course Code: GOVT 50.19 Name: Development Under Fire Term: 26F

Course Code: _____ Name: _____ Term: _____

Course Code: _____ Name: _____ Term: _____

Course Code: _____ Name: _____ Term: _____

Course Code: _____ Name: _____ Term: _____

Research requirement

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

QSS 81 _____

QSS 82 _____ Term: _____