

# QSSS Curriculum

Core Segment	Subject Area	Coursework Satisfying Requirements	
<b>QSSS Freshman Seminar</b>		Introduction to Game Theory & Strategy 88-122	
<b>Foundation Courses</b>	<b>Mathematical Foundations</b>	Calculus Sequence 21-122, 21-259 <sup>1</sup> AND Matrices 21-240 or 21-241 or 21-242 [Prerequisite for Regression Course]	
	<b>Statistical Foundations</b>	Statistics 36-225 Probability Theory <sup>2</sup> AND Statistics 36-226 Statistical Inference	
<b>Social Science Modeling</b>	<b>Quantitative Policy Analysis</b>	73-230 Microeconomics OR 88-220 Policy Analysis 1 & 88-221 Policy Analysis 2	
	<b>Game Theory</b>	73-347 Game Theory for Economists OR 80-405 Game Theory	
	<b>Decision Making</b>	88-223 Decision Analysis and Decision Support Systems OR 80-305 Rational Choice OR 85-213 Human Information Processing and Artificial Intelligence	
<b>Regression Analysis</b>		88-252 Causal Inference in the Field <sup>3</sup> AND 73-363 Econometrics or 36-401 Modern Regression	
<b>Advanced Quantitative Methods</b>  Students are <i>encouraged</i> to take additional advanced methods courses beyond the required one course in each area.	<b>Data Collection and Generation</b>	88-251 Empirical Research Methods OR 36-303 Sampling, Surveys, and Society OR 36-309 Experimental Design for Behavioral and Social Sciences	
		<b>Analytic and Computational Methods</b>	73-315 Market Design OR 36-315 Data Visualization OR 36-350 Statistical Computing OR 36-46x Special Topics in Statistics OR 15-381 Artificial Intelligence: Representation and Problem Solving OR 85-412 Cognitive Modeling OR 85-419 Introduction to Parallel Distributed Processing OR 85-426 Learning in Humans and Machines
	<b>Senior Integrative Thesis Project</b>		Honors Thesis OR Independent Study (9 units/sem; Fall and Spring. Register with your thesis advisor.) 65-411 & 65-412 QSSS Senior Thesis Proseminar (3 units/sem)

**Students must also major in a social science and maintain an adjusted core-QSSS QPA at or above 3.0.**

<sup>1</sup> Students may take the calculus sequence 21-120, 21-256 instead, but 21-122 and 21-259 is the recommended path.

<sup>2</sup> A probability course in the math department, 21-325, may be substituted.

<sup>3</sup>Students in the economics / statistics joint major are exempt from this course requirement.