

Decision Science, Minor

The Minor in Decision Science

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<https://www.cmu.edu/dietrich/sds/undergraduate/index.html> (<https://www.cmu.edu/dietrich/sds/undergraduate/>)

Overview

Every profession requires important decisions. Engineers, physicians, entrepreneurs, policymakers, designers, and scientists all face choices involving uncertainty, competing objectives, and incomplete information. The Decision Science minor provides students with a scientific framework for understanding what makes good decisions and how better decisions can be achieved.

Students learn the core theories and methods of decision science, including decision analysis, behavioral research, experimental methods, and quantitative analysis. They learn to evaluate evidence, recognize high-quality decisions, design better decision environments, and apply these ideas to complex problems in their own discipline. The minor complements a wide range of majors by helping students become more effective decision makers throughout their careers.

Double Counting

Students may double-count two courses with another major or minor.

Curriculum

Decision Science Minor

57 units

Core Courses

39 units

	Units
73-102 Principles of Microeconomics	9
or 73-104 Principles of Microeconomics Accelerated	
88-120 Reason, Passion and Cognition	9
88-223 Decision Analysis	12
88-302 Behavioral Decision Making	9

Elective Courses

18 units

Complete two courses from the following list. At least one of the courses (9 units) must be a Social and Decision Sciences course (88-xxx) from the approved list. Note that additional courses (most typically 88xxx courses) are occasionally added. For the most up to date list of approved electives (and additional information about the courses), see the SDS website (<https://www.cmu.edu/dietrich/sds/undergraduate/>). Some courses have additional prerequisites.

88-150	Managing Decisions	9
88-221	Markets, Democracy, and Public Policy	9
88-230	Human Intelligence and Human Stupidity	9
88-231	Thinking in Person vs. Thinking Online	9
88-234	Negotiation: International Focus	9
88-235	Negotiation: Strategies and Behavioral Insights	9
88-237	The Happy Cyborg	9
88-252	Causal Inference: from Data to Decisions	9
88-255	Strategic Decision Making	9
88-261	Health Policy and Decision Making	9
88-262	Rationality and Irrationality in Medicine	9
88-275	Bubbles: Data Science for Human Minds	9
88-285	Deconstructing and Dismantling Discrimination	9
88-290	Confessions, Lies, and Gossip	9
88-300	Programming and Data Analysis for Social Scientists	9

88-312	Decision Models and Games	9
88-342	The Neuroscience of Decision Making	9
88-344	Systems Analysis: Environmental Policy	9
88-360	Behavioral Economics	9
88-365	Behavioral Economics and Public Policy	9
88-366	Behavioral Economics of Poverty and Development	9
88-367	Designing Economics Experiments in the Wild	9
88-372	Social and Emotional Brain	9
88-379	Data-Driven Decision Analysis	9
88-451	Policy Analysis Senior Project	12
88-452	Policy Analysis Senior Project	12
88-454	Decision Science Capstone	9
70-311	Organizational Behavior	9
70-332	Business, Society and Ethics	9
70-443	Digital Marketing and Social Media Strategy	9
70-460	Mathematical Models for Consulting	9
73-365	Firms, Market Structures, and Strategy	9
80-221	Philosophy of Social Science	9
80-324	Philosophy of Economics	9
84-369	Decision Science for International Relations	9
85-409	Crosscultural	9
85-454	Health Psychology	9