

Data Analysis Breadth Electives

<u>Course #</u>	<u>Course Name</u>	<u>Credits</u>	<u>Semester</u>	<u>Required Pre-Reqs (C minimum grade needed)</u>
CS 3540	Designing Human-Centered Experiences	3	Fall/Spring	CS 2420 & Full Major Status
CS 4300	Artificial Intelligence	3	Fall	CS 3500 & CS 4150 & CS 3130 & Full Major Status
CS 4640	Image Processing Basics	3	Fall	CS 2420 & Full Major Status
CS 5150	Advanced Algorithms	3	Fall	CS 4150 & Full Major Status
CS 5340	Natural Language Processing	3	Fall	CS 3505 & Full Major Status
CS 5320	Computer Vision	3	Fall	CS 3505, MATH 2270 OR 2250 & Major Status
CS 5353	Deep Learning	3	Fall	CS 3500 & (MATH 1250 or 1260) or (MATH 1311 & 1321) or MATH 2210
CS 5635	Visualization for Scientific Data	3	Spring	CS 3500 & Math 1220
MATH 5010	Intro to Probability	3	Fall/Spring/Summer	C or better in (MATH 1260 OR MATH 1321 OR MATH 2210 OR MATH 2310 OR MATH 3140)
MATH 5040	Stochastic Processes 1	3	Fall	MATH 5010
MATH 5080	Statistical Inference 1	3	Fall/Spring	MATH 5010
MATH 5090	Statistical Inference 2	3	Fall/Spring	MATH 5080
MATH 5770	Optimization	3	Fall	MATH 2270
CS 6190, CS 6530 and CS 6640 also accepted		3	Varies	Instructor Consent

Other comparable courses may also be eligible to fulfill elective requirements. To request approval, please email DS-ugshelp@cs.utah.edu with the course name and number, a brief description of the course content (such as from the syllabus), and a short explanation of why you believe the course is appropriate for elective credit.