Course #	Course Name	Credits	<u>Semester</u>	Required Pre-Regs (C minimum grade needed)			
Data Flue	Data Fluency Certificate						
ANTH 5234	Population Issues in Anthropology	3	Fall	MATH 1030 OR higher AND (ANTH 1010 OR ANTH 1020 OR ANTH 1030 OR ANTH 1050)			
ATMOS 3000	Professional Development in Atmospheric Sciences	2	Fall				
ATMOS 5340	Environmental Programming and Statistics	3	Varies	MATH 1210			
ATMOS 5400	The Climate System	3	Fall	Math 1050			
BIOL 3515	Biological Chemistry Laboratory	3	Spring	Co-Req: C- or better BIOL 3510 OR CHEM 3510			
BME 6770	Genomic Signal Processing	3	Spring	Graduate Status or instructor consent			
BME 6780	Data Science for Bioengineers	3	Fall	BME 3301 OR equivalent (Instructor permission)			
BMI 5010	Foundations of Health Informatics	2	Fall				
BMI 5018	Intro to Prof for Biomedical Data Science	3	Fall				
BMI 5030	Foundations of Bioinformatics	2	Fall				
BMI 6015	Applied Machine Learning in BMI	3	Fall				
BMI 6060	Applied Computational Genomics	3	Spring	Knowledge of Molecular Biology			
COMM 1270	Analysis of Argument	3	Fall/Spring/Summer				
CS 3540	Human/Computer Interaction	3	Fall/Spring	CS 2420 AND Full Major Status in CS			
CS 5140	Data Mining	3	Fall	CS 3190 AND Full Major Status in CS			
CS 5530	Database Systems	3	Spring	CS 3500 AND Full Major Status in CS			
ECON 3100	Labor Economics	3	Fall/Spring/Summer				

Money and Banking	3	Fall/Spring/Summer	
International Economics	3	Fall/Spring	
Current Economic Problems	3		
Intermediate Microeconomic Analysis	3	Fall/Spring/Summer	SEE CATALOG FOR PREREQS
Intermediate Microeconomic Analysis for Business Economics and Analytics	3	Fall/Spring	(MATH 1220 OR 1260 OR 1320 OR 1321) AND (FMS in Econ or QAMO)
Intermediate Macroeconomic Analysis	3	Fall/Spring/Summer	SEE CATALOG FOR PREREQS
Econometrics	3	Fall/Spring/Summer	SEE CATALOG FOR PREREQS
Health Economics	3	Fall/Spring	
Literature by the Numbers	3	Fall/Spring	
Fund of Investing and Business Finance	3	Fall/Spring/Summer	SEE CATALOG FOR PREREQS
Investments	3	Fall/Spring/Summer	SEE CATALOG FOR PREREQS
Financial Management	3	Fall/Spring/Summer	Prerequisites: 'C-' or better in MATH 1050 OR MATH 1080 OR MATH 1090 OR MATH 1100 OR MATH 1105 OR MATH 1210 OR MATH 1310 OR AP Calc AB score of 3+ OR AP Calc BC score of 3+
Fintech Workshop	3	Spring	C+ or better in BCOR 3020 OR FINAN 3020 OR FINAN 5050
Fintech Trading Lab	3	Fall	C-' or better in BCOR 3020 OR FINAN 3020 OR FINAN 5050
Mineralogy and Petrology for Engineers	2	Every other Fall	GEO 1110 AND GEO 1115
Geographic Analysis	4	Spring	SEE CATALOG FOR PREREQS
	International Economics Current Economic Problems Intermediate Microeconomic Analysis Intermediate Microeconomic Analysis for Business Economics and Analytics Intermediate Macroeconomic Analysis Econometrics Health Economics Literature by the Numbers Fund of Investing and Business Finance Investments Financial Management Fintech Workshop Fintech Trading Lab Mineralogy and Petrology for Engineers	International Economics 3 Current Economic Problems 3 Intermediate Microeconomic Analysis 3 Intermediate Microeconomic Analysis for Business Economics and Analytics 3 Intermediate Macroeconomic Analysis 3 Econometrics 3 Health Economics 3 Literature by the Numbers 3 Fund of Investing and Business Finance 3 Investments 3 Financial Management 3 Fintech Workshop 3 Fintech Trading Lab 3 Mineralogy and Petrology for Engineers 2	International Economics 3 Fall/Spring Current Economic Problems 3 Intermediate Microeconomic Analysis 3 Fall/Spring/Summer Intermediate Microeconomic Analysis for Business Economics and Analytics 3 Fall/Spring Intermediate Macroeconomic Analysis 5 Fall/Spring Summer Econometrics 3 Fall/Spring/Summer Econometrics 3 Fall/Spring/Summer Health Economics 3 Fall/Spring Literature by the Numbers 3 Fall/Spring Fund of Investing and Business Finance 3 Fall/Spring/Summer Investments 3 Fall/Spring/Summer Fintech Workshop 3 Spring Fintech Trading Lab 3 Fall Mineralogy and Petrology for Engineers 2 Every other Fall

GEOG 3110	Introduction to Remote Sensing	3	Fall	
GEOG 4140	ADV Methods in Geographic Info Systems	4	Fall/Spring	GEOG 3100 OR GEOG 3140
GEOG 5110	Environ. Analysis through Remote Sensing	3	Spring	GEOG 3110
GEOG 4150	Geospatial Big Data	4	Fall	GEOG 4140
GEOG 5160	Spatial Modelling and Geocomputation	4	Spring	GEOG 4140
IS 4420	Database Fundamentals	3	Fall/Spring/Summer	(IS 4410 OR IS 4411) AND (FMS in IS or Operations Management OR QAMO)
IS 4482	Data Mining for Business Applications	3	Fall/Spring	IS 4420 AND (FMS in IS or QAMO)
LING 2475	Language Myths	3	Fall/Spring	
LING 3020	Introduction to Syntax	3	Fall/Spring	LING 1069 OR LING 1200 OR ENGL 1200
LING 3340	Introduction to Computation Linguistics	3	Every other Spring	LING 2200 AND (LING 2300 OR CS 1420)
MATH 3080	Applied Statistics II	3	Spring	MATH 3070
MATH 5010	Introduction to Probability	3	Fall/Spring/Summer	(MATH 2210 OR MATH 1260 OR MATH 1280 OR MATH 1321 OR MATH 3140)
ME EN 3310	Mechanics of Materials	3	Fall/Spring	MATH 2250 OR (MATH 2270 AND MATH 2280) Co Req MATH 2210 AND ME EN 3315
ME EN 3315	Mechanics of Materials Lab	1	Fall/Spring	Co Req: ME EN 3310
ME EN 4650	Thermal Fluid and Energy Systems Lab	3	Fall/Spring	ME EN 2550, 3400, (2300, OR 3600 OR 3610) AND (37100 3710); Co Req: 4610 OR 3650
ME EN 5035	Design of Experiments	3	Spring	C' or better in (ME EN 2550 OR MATH 3070)
MG EN 2400	Introductory Surveying	3	Fall/Summer	(MATH 1060 OR MATH 1080 OR MATH 1210 OR MATH 1220 OR MATH 1310 OR MATH 1320)

PHIL 3200	Deductive Logic	3	Fall/Spring	
PHIL 3210	Inductive Logic	3	Fall/Spring	
PHIL 5200	Advanced Deductive Logic	3	Fall	PHIL 3200 OR PHIL 3210
PHIL 5210	Advanced Inductive Logic	3	Fall/Spring	PHIL 3200 OR PHIL 3210
POLS 3001	Political Analysis	3	Fall/Spring/Summer	
PRT 3780	Evidence-based Decision Making in Parks, Recreation, and Tourism	3	Fall/Summer	Complete 2 classes that fulfill a QA and WR2
PSY 3000	Statistical Methods in Psychology	4	Fall/Spring/Summer	(PSY 1010 OR PSY 1011) AND (Math 1050 or higher)
QAMO 3010	Business Economics	3	Fall/Spring	SEE CATALOG FOR PREREQS
SOC 3673	Social Epidemiology	3	Fall/Spring/Summer	
STAT 5003	Survey of Statistical Computer Packages	3	Fall/Spring	Knowledge of spreadsheets and applied statistics through regression
SW 3000	Applied Social Work Statistics	4	Fall/Spring/Summer	Math 1030 or QA equivalent
WRTG 4030	Visual Rhetoric	3	Fall/Spring/Summer	WRTG 2009 OR 2010 OR WR2 Equivalent

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.