

SCHOOL OF COMPUTING UNDERGRAD DATA DOMAIN LIST FOR DS MAJORS

Availability subject to change

02.01.2021

Elective - Data Domain (choose 3)

Course #	Course Name	Credits	Semester	Required Pre-Reqs (C minimum grade needed)
ATMOS 3000	Professional Devel in Atmospheric Sciences	2	Fall	none listed
ATMOS 5340	Environmental Programming & Statistics	3	Varies	Math 1210
ATMOS 5400	The Climate System	3	Fall	Math 1050
ANTH 5234	Population Issues in Anthropology	3	Fall	Math 1030 or higher & ANTH 1010 or ANTH 1020 or ANTH 1030 or ANTH 1050
BME 6770	Genomic Signal Processing	3	Spring	Graduate status or instructor consent
BMI 5010	Foundations of Health Informatics	2	Fall	none listed
BMI 5018	Intro to Prog for Biomedical Data Science	3	Fall	none listed
BMI 5030	Foundations of Bioinformatics	2	Fall	none listed
BMI 6015	Applied Machine Learning in BMI	3	Fall	non listed
ECON 4010	Intermediate Microeconomic Analysis	3	Fall/Spring/Summer	ECON 2010 or Bus 2010, ECON 2020 & Math 1210
ECON 4020	Intermediate Macroeconomic Analysis	3	Fall/Spring/Summer	ECON 2010 or Bus 2010, ECON 2020 & Math 1211
ECON 5190	Health Economics	3	Fall/Spring	none listed
FINAN 3000	Fund of Investing and Business Finance	3	Fall/Spring/Summer	Math 1050 or higher
FINAN 3040	Financial Management	3	Fall/Spring/Summer	Major status in Business or QAMO
FINAN 3050	Introduction to Investments	3	Fall/Spring/Summer	FINAN 3040 & major status in Business or QAMO
GEO 3070	Mineralogy & Petrology for Engineers	2	(every other) Fall	GEO 1110 & GEO 1115
GEOG 3110	Introduction to Remote Sensing	3	Fall	none listed
GEOG 3400	Population Geography	4	Fall	WRTG 2010
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 5150	Geospatial Big Data	4	Fall	GEOG 4140
GEOG 5160	Spatial Modeling and Geocomputation	4	Spring	GEOG 4140
LING 4020	Introduction to Syntax	3	Fall/Spring	LING 1069 (HF) or LING 1200 (HF) or ENGL 1200 (HF)
LING 5300	Introduction to Computational Linguistics	3	(every other) Spring	LING 1069 (HF) or LING 1200 (HF) or ENGL 1200 (HF); Co-Req: LING 4020
ME EN 3310	Mechanics of Materials	3	Fall/Spring	Math 2250 or (Math 2270 & Math 2280); Co-Req: Math 2210 & 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) & (3700 or 3710); Co: 4610 or 3650
ME EN 5035	Design of Experiments	3	Fall	none listed
PHIL 3200	Deductive Logic	3	Fall/Spring	none listed
PHIL 3210	Inductive Logic	3	Fall/Spring	none listed
PHYS 3030	Discovering Complex Systems	3	Varies	Co-Req: Math 1010 or higher
POLS 3001	Political Analysis	3	Fall/Spring/Summer	none listed
POLS 3005	Strategic Games	3	Fall	none listed
PRT 3780	Prog & Service Evaluation in Parks, Rec, Tourism	3	Fall/Summer	WRTG 2010
PSY 3000	Statistical Methods in Psychology	4	Fall/Spring/Summer	PSY 1010 or PSY 1011 & Math 1050 or higher
QAMO 3010	Business Economics	3	Fall/Spring	Math 1210
SOC 3673	Social Epidemiology	3	Fall/Spring/Summer	None listed
STAT 5003	Survey of Statistical Computer Packages	3	Fall/Spring	Knowledge of spreadsheets and applied statistics through regression

Note: there may be classes not on this list which could be approved to count toward the DS degree.