

Data Domain Electives

<u>Course #</u>	<u>Course Name</u>	<u>Credits</u>	<u>Semester</u>	<u>Required Pre-Reqs (C minimum grade needed)</u>
<i>Data Domain</i>				
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 Devel in Atmospheric Sciences	2	Fall	
ATMOS 5340	Environmental Programming AND Statistics	3	Fall	Co-Req: ATMOS 5000
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	Graduate status OR Instructor Consent
BMI 5010	Foundations of Health Informatics	2	Fall	
BMI 5018	Intro to Prog for Biomedical Data Science	3	Fall	Instructor Consent
BMI 5030	Foundations of Bioinformatics	2	Fall	Recommended Prerequisites: Introduction to molecular biology and genetic concepts.
BMI 6015	Applied Machine Learning in BMI	3	Fall	B-' or better in (BMI 6016 AND BMI 6018 AND Full Major status in Biomedical Informatics) OR Instructor Consent
BMI 6060	Applied Computational Genomics	3	Spring	Knowledge of Molecular Biology (including introductory courses)
ECON 3100	Labor Economics	3	Fall/Spring/Summer	
ECON 3200	Money and Banking	3	Fall/Spring/Summer	

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ECON 3500	International Economics	3	Fall/Spring	
ECON 3540	Current Economics Problems	3	Varies	
ECON 4650	Principles of Econometrics	3	Fall/Spring/Summer	C-' or better in ((ECON 3640 OR OIS 3440) OR "B" or better in (MATH 1070 OR OIS 2340 OR BCOR 2030) OR AP Statistics score of 3 or better).
FINAN 3000	Fund of Investing and Business Finance	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 Calculus AB score of 2+ OR AP Calculus BC score of 2+
FINAN 4070	Investments	3	Fall/Spring/Summer	Prerequisites: 'C-' or better in (BCOR 3010 OR ACCTG 3010 OR ACCTG 5050) AND (BCOR 3020 OR FINAN 3020 OR FINAN 5050) AND Intermediate or Full Major status in the School of Business OR Full Major status in QAMO
FINAN 5050	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+
FINAN 5115	Fintech Workshop	3	Spring	C+ or better in BCOR 3020 OR FINAN 3020 OR FINAN 5050
FINAN 5140	Fintech Trading Lab	3	Fall	C-' or better in BCOR 3020 OR FINAN 3020 OR FINAN 5050
GEOG 3020	Geographic Analysis	4	Spring	Prerequisites: 'C-' or better in (MATH 1050 / 1060 / 1080 / 1090 / 1210 / 1220 / 1250 / 1260 / 1310 / 1311 / 1320 / 1321) OR AP CalcAB score 3+ OR AP CalcBC score 3+ OR AP Stats score 3+ OR ACT Math score 26+ OR SAT Math score 640+ OR IB Math score 5+.
GEO 3070	Mineralogy and Petrology for Engineers	2	varies	GEO 1110 AND CHEM 1210 Corequisites: MATH 1210 OR MATH 1310
GEOG 3110	Introduction to Remote Sensing	3	Fall	
GEOG 4140	Adv Methods in Geographic Info Systems	4	Fall/Spring	C' or better in GEOG 3100
GEOG 5110	Environ. Analysis through Remote Sensing	3	Spring	"C" or better in GEOG 3110
GEOG 4150	Geospatial Big Data	4	Fall	C' or better in GEOG 4140

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GEOG 5160	Spatial Modeling and Geocomputation	4	Spring	C' or better in GEOG 3160 AND GEOG 4140
LING 2475	Language Myths	3	Fall/Spring	
LING 3020	Introduction to Syntax	3	Fall/Spring	C-' or better in LING 2200
LING 3340	Introduction to Computation Linguistics	3	Every other Spring	LING 2200 AND (LING 2300 OR CS 1420)
ME EN 3310	Mechanics of Materials	3	Fall	Prerequisites: 'C' or better in (ME EN2010 OR CVEEN2010) & (MATH2250 OR (2270 & 2280)) & Major status in ME & ME EN 2-5XXX Eligible & NOT ME Advising Hold Corequisites: 'C' or better in ME EN3315 & (MSE2010 OR 2160) & one of (MATH 1260/ 1321/ 2210/ 3140)
ME EN 3315	Mechanics of Materials Lab	1	Fall/Spring	Full Major status in Mechanical Engineering. Corequisites: 'C' or better in ME EN 3310
ME EN 4650	Thermal Fluid and Energy Systems Lab	3	Fall/Spring	Prerequisites: 'C' or better in (ME EN 2550 OR MATH 3070) AND ME EN 3400 AND 3650 AND 3710 AND Major Status in Mechanical Engineering AND ME EN 2-5XXX Eligible (See Admission Requirements) AND NOT ME Advising Hold
ME EN 5035	Design of Experiments	3	Spring	C' or better in (ME EN 2550 OR MATH 3070)
PHIL 3200	Deductive Logic	3	Fall/Spring/Summer	
PHIL 3210	Inductive Logic	3	Fall	
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

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PSY 3000	Statistical Methods in Psychology	4	Fall/Spring/Summer	Prerequisites: 'C' or better in (PSY 1010/1011 / AP Psy 3+ / IB Psy 5+ / CLEP Psy 50+) AND (MATH 1030/1035/1040/1050/1060/1070/1080/1090/1210/1220 OR ACT MATH 26+ OR SAT MATH 640+ OR AP Calc 3+ OR AP Stats 3+ OR IB Math 5+) AND Maj/Min in College of SBS
QAMO 3010	Business Economics	3	Fall/Spring	Prerequisites: 'C' or better in MATH 1210 OR MATH 1220 OR MATH 1310 OR MATH 1320 OR AP Calculus BC score of 3+ OR AP Calculus AB score of 4+
ROBOT 6400	Neural Engineering and Neurorobotics	4	Fall	Graduate status OR Instructor Consent
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
WRTG 4030	Visual Rhetoric	3	Fall/Spring/Summer	WRTG 2009 OR 2010 OR WR2 equivalent