SCHOOL OF GEOSCIENCES MATH & SCIENCE ELECTIVE LISTS

For the most current list of approved courses, please consult the School of Geosciences.

Math/Chemistry

Code	Title	Credit Hours
MATH 2443	Calculus and Analytic Geometry IV	3
MATH 2934	Differential and Integral Calculus III	4
CHEM 3053	Organic Chemistry I: Biological Emphasis	3
CHEM 3423	Physical Chemistry I	3

Statistics

Code	Title	Credit Hours
ANTH 4683		3
ANTH 4713	Statistical Concepts in Anthropology	3
BIOL 2913	Intro to Quantitative Biology	3
BIOL 4913	Quantitative Biology	3
COMM 2513	Introduction to Statistics	3
ECON 2843	Elements of Statistics	3
ECON 4223	Econometric Analysis	3
ECON 4773	Economic Game Theory	3
GEOG 3924	Quantitative Methods	4
GIS 4923	Spatial Statistics	3
MATH 4743	Introduction to Mathematical Statistics	3
MATH 4753	Applied Statistical Methods	3
MATH 4743	Introduction to Mathematical Statistics	3
MATH 4753	Applied Statistical Methods	3
MATH 4773	Applied Regression Analysis	3
P SC 2013	Introduction to Political Analysis	3
PSY 2003	Understanding Statistics	3
PSY 3114	Research Methods: Applications and Experimental Design	4
S WK 2223	Statistics for Social Work	3
SOC 3133	Methods of Social Research	3
SOC/P SC 3123	Social Statistics	3

Computing

Code	Title	Credit Hours
ASTR 3190	Topics in Astronomy (Topic: Introduction to Research)	1-3
C S 1213	Programming for Non-Majors with Python	3
C S 4033	Machine Learning Fundamentals	3
GPHY 3013	Data Analysis in Geoscience	3
LIS 4623	Advanced Data Analytics	3
LIS 4643	Introduction to Data Analytics	3
MBIO 4783	Introduction to Python Programming for Data Analytics	3
METR 1313	Introduction to Programming for Meteorology	3
METR 4330	Information Technology Skills for Meteorology	1-3
PSY 2503	Computing for Behavioral Sciences	3

Quantitative

Code	Title	Credit Hours
GEOG 3513	Political Geography	3
LIS 4613	Dynamic Web Development	3
LIS 4453	Digital Collections	3
LIS 4673	Introduction to Information Visualization	3
LIS 4683	Database Design for Information Organizations	3
LIS 4693	Information Retrieval and Text Mining	3
LIS 4970	Special Topics/Seminar (Topic: Data Stewardship)	1-3
MATH 3333	Linear Algebra I	3
MBIO/PBIO 3673	Practical Bioinformatics	3