



## Geoinformatics

### Year One

Fall Semester		
EN	1103	English Composition I
MA	1713	Calculus I
CSE	1284	Intro to Programming
DSCI	2013	Data Science Literacy
		GR 1603 or GG 1113 lab based science

Spring Semester		
EN	1113	English Composition II
MA	1723	Calculus II
CSE	1384	Intermediate Programming
DSCI	2012	Data Wrangling Lab
		Lab Based Science

### Year Two

Fall Semester		
MA	2733	Calculus III
CSE	2813	Discrete Structures
DSCI	3013	Data Acquisition
BIS	3233	Management Information Systems
		Humanities

Spring Semester		
MA	3123	Statistical Inference
CSE	2383	Data Structures & Analysis of Algorithms
DSCI	4013	Data Visualization
PHI	1113	Intro to Logic
		Fine Art

### Year Three

Fall Semester		
MA	3113	Intro to Linear Algebra
CSE	4633	Artificial Intelligence
DSCI	3022	Data Visualization Lab
		Public Speaking Course
		Social/Behavioral Science
GR	4303	Principles of GIS

Spring Semester		
MA	4523	Intro to Probability
CSE	4503	Database Management Systems
DSCI	3012	Description, Analysis & Inference Lab
		Written Communication Course
ATM	4633	Statistical Climatology
		Choice of Meteorology/Remote Sen Course

### Year Four

Fall Semester		
CSE	3763	Legal & Ethical Issues in Computing
DSCI	3032	Artificial Intelligence Lab
		1 of 5 Concentration Courses
		2 of 5 Concentration Courses
DSCI	4553	Senior Capstone One

Spring Semester		
DSCI	2022	Cloud, Quantum & High Perf Computing Lab
		3 of 5 Concentration Courses
		4 of 5 Concentration Courses
		5 of 5 Concentration Courses
DSCI	4663	Senior Capstone Two

**Meteorology or Remote Sensing (Choose 1)**GR 4333 Remote Sensing of the Physical Environment<sup>2</sup>

ATM 4783 Satellite Meteorology

ATM 4883 Radar Meteorology

**Concentration Course List (Choose 5)**

ATM 4733 Synoptic Meteorology

ATM 4643 Physical Meteorology and Climatology I

ATM 4693 Physical Meteorology and Climatology II

ATM 4613 Applied Climatology

ATM 4783 Satellite Meteorology<sup>1</sup>ATM 4883 Radar Meteorology<sup>1</sup>

ATM 4553 Computer Methods in Meteorology

GR 4313 Advanced GIS<sup>2</sup>GR 4323 Cartographic Sciences<sup>2</sup>GR 4333 Remote Sensing of the Phys Environment<sup>1,2</sup>GR 4343 Advanced Remote Sensing<sup>2</sup>GR 4363 GIS Programming<sup>2</sup>

GR 4123 Urban Geography

GG 3613 Water Resources

GG 4233 Applied Geophysics

GG 4414 Structural Geology

GG 4503 Geomorphology

GG 4523 Coastal Environments

GG 4543 Community Engagement in Geosciences

GG 4613 Physical Hydrogeology

<sup>1</sup> Can be used as remaining hours if not already used for the required concentration.<sup>2</sup> Counts towards the Geospatial and Remote Sensing Minor