

Bachelor of Science Degree in Geomatics: **GIS Emphasis**

First Year	Second Year	Third Year	Fourth Year
Fall Semester (16 Credits)	Fall Semester (16 Credits)	Fall Semester (16 Credits)	Fall Semester (17 Credits)
GEO A137 3 Principles of Mapping	GEO A256 3 Municipal & Civil Geomatics	GEO A355 3 Land Development & Design	GEO A460 3 Geomatics Design Project
GEO A155 3 Fundamentals of Surveying	GEO A257 3 Elements of Photogrammetry	GEO A359 3 Geodesy & Map Projections	GEO A303 1 Geom Prof Development 3
GEO A157 3 Analytical & Digital Carto.	GEO A266 3 Advanced Surveying	GIS A366 3 Spat. Info. Analysis & Model.	ELECTIVE 3 Natural Science GER
GEO A158 1 Geomatics Computer Fund.	GEO A267 4 Boundary Law I	GEO A301 1 Geom Prof Development 1	ELECTIVE 3 Social Science GER
ENGR A161 3 Engineering Practices II	MATH A272 3 Applied Calculus	ELECTIVE 3 Fine Arts GER	ELECTIVE 3 Humanities GER
ENGL A111 3 Methods of Written Comm.		ELECTIVE 3 Social Science GER	ELECTIVE 4 GIS Emphasis
Spring Semester (18 credits)	Spring Semester (17 credits)	Spring Semester (15 credits)	Spring Semester (16 credits)
CSE A102 1 Intro. to Computer Systems	GEO A248 3 Digital Terrain Cartography	GEO A365 4 Geomatics Adjustment and Analysis	GEO A457 4 Boundary Law II
GEO A146 3 Surveying Computations	GIS A268 4 Elements of GIS	BA/JUST A241 3 Business Law I	GEO A466 3 Geopositioning
GEO A167 4 Remote Sensing and Image Analysis	ENGL A212 3 Technical Writing	GIS A458 3 Design & Management of Spatial Data	GIS A468 3 Integration of Geomatics Technologies
MATH A109 6 Precalculus	COMM A111, A235, A237, or A241 3	GEO A302 1 Geom Prof Development 2	PHIL A405 3 Professional Ethics
STAT A253 4 Applied Statistics for the Sciences	PHYS A123, A123L or A211, A211L 4	ELECTIVE 4 GIS Emphasis	ELECTIVE 3 Humanities GER

Fall Semester Courses

GEO A137, GEO A155, GEO A158, GEO A256, GEO A257, GEO A266, GEO A267, GEO A301, GEO A303, GEO A355, GEO A359, GEO A460, GIS A268, GIS A366, ENGR A161

It is recommended to take ENGR A161 & GEO A158 concurrently.

See your advisor for graduation requirements.
2011-12 Catalog.

Spring Semester Courses

GEO A146, GEO A155, GEO A158, GEO A167, GEO A248, GEO A302, GEO A365, GEO A457, GEO A460, GEO A466, GIS A268, GIS A468, GIS A458, CSE A102, ENGR A161

Suggested Course Sequencing

Elective Course Schedule

Surveying Electives

Fall Semester

GEO A358 Programming for Digital Cartography (3)
GEO A490 Selected Advanced Topics in Geomatics (1–6)
GIS A433 Coastal Mapping (alternate years) (3)
GIS A371 GIS Applications I (3)

Spring Semester

GEO A359 Geodetic Geomatics (3)
GEO A467 Analytical and Digital Photogrammetry (3)
GIS A369 Land Information Systems (3)
GIS A471 GIS Applications II (4)
GEO A490 Selected Advanced Topics in Geomatics (1–6)
GEO A354 City and Regional Planning (3)

GIS Electives

Fall Semester

GIS A367 GIS and Remote Sensing (3)
GIS A371 GIS Applications I (3)
GIS A433 Coastal Mapping (alternate years) (3)
GIS A490 Selected Advanced Topics in GIS (1–6)

Spring Semester

GIS A369 Land Information Systems (3)
GIS A370 GIS and Remote Sensing for Natural Resources (3)
GIS A471 GIS Applications II (4)
GIS A490 Selected Advanced Topics in GIS (1–6)

Note: Elective courses may be offered on an ‘on demand’ basis.