

SURVEYING AND GEOMATICS SCIENCES PROGRAM

TU FOUR-YEAR STUDENT

Recommended Sequence of Core Courses

Year	Fall	Spring	Summer		
Freshman	MTH 1114 Pre-Cal Trigonometry (4) OR MTH 1125 Calculus I (4) GEM 1100 Computer-Aided Drafting GEM L100 Computer-Aided Drafting Lab [More general study courses]	MTH 2210 Applied Statistics 4 MTH 1126 Calculus II (4) 2 PHY 2252 General Physics I 2 PHY L252 General Physics I Lab [More general study courses]	3 PHY 2253 General Physics II PHY L253 General Physics II Lab 3 1 [More general study courses]	3 1 [More general study courses]	3 1 [More general study courses]
	Subtotal	8	Subtotal	11	Subtotal
Sophomore	GEM 2220 Basics of Surveying GEM L220 Basics of Surveying Lab GEM 3390 Introduction to GIS GEM L390 Introduction to GIS Lab [More general study courses]	3 GEM 3330 Advanced Measurement Analysis 1 GEM L330 Advanced Measurement Analysis Lab 3 GEM 3391 Applications of GIS 1 GEM L391 Applications of GIS Lab GEM 4408 Geodesy and Geodetics GEM L408 Geodesy and Geodetics Lab [More general study courses]	3 1 3 1 3 1 [More general study courses]	GEM 3395 Coop Work Experience 1 [More general study courses]	1 [More general study courses]
	Subtotal	8	Subtotal	12	Subtotal
Junior	GEM 3379 Intro to Least Squ Adj. GEM L379 Intro to Least Squ Adj Lab GEM 3309 Land Survey Principles GEM L309 Land Survey Principles Lab [More general study courses]	3 GEM 4410 Intro to Global Positions 1 GEM L410 Intro to Global Positions Lab GEM 4405 Route and Construction Survey GEM L405 Route and Construction Survey Lab 3 GEM 3310 Land Survey Practice 1 [More general study courses]	3 1 3 1 3 [More general study courses]	GEM 4496 Coop Work Experience 11 GEM L310 Boundary Retracement Lab [More general study courses]	1 1 [More general study courses]
	Subtotal	6	Subtotal	11	Subtotal
Senior	GEM 4409 Hydrology GEM L409 Hydrology Lab GEM 3366 Photogrammetry and RS GEM L366 Photo and RS Lab [More general study courses]	3 GEM 4407 Land Development 1 GEM L407 Land Development Lab 3 GEM 4499 Geomatics / GIS Projects 1 GEM 4490 Geomatics Capstone [More general study courses]	3 1 2 1 [More general study courses]	 [More general study courses]	 [More general study courses]
	Subtotal	6	Subtotal	5/7	