

SURVEYING AND GEOMATICS SCIENCES PROGRAM

TU FOUR-YEAR STUDENT (From Fall 2017)

Recommended Sequence of Core Courses

Year	Fall	Spring	Summer	
Freshman	MTH 1114 Pre-Cal Trigonometry (4) OR MTH 1125 Calculus I (4) [More general study courses]	MTH 2210 Introduction to Statistics 4 MTH 1126 Calculus II (4) PHY 2252 General Physics I PHY L252 General Physics I Lab [More general study courses]	3 PHY 2253 General Physics II PHY L253 General Physics II Lab 4 3 1 [More general study courses]	3 1
	Subtotal	4	Subtotal	11
Sophomore	GEM 1100 Computer-Aided Drafting 1 GEM 2220 Basics of Surveying GEM L220 Basics of Surveying Lab GEM 3390 Fundamentals of Geographical Information and Analysis [More general study courses]	2 GEM 1101 Computer-Aided Drafting 11 3 GEM 3330 Advanced Measurement Analysis 1 GEM L330 Advanced Measurement Analysis Lab 3 GEM 3391 Application of Geospatial Information Systems GEM 4408 Geodesy and Geodetics [More general study courses]	2 3 1 3 3 [More general study courses]	GEM 3395 Coop Work Experience 1 1
	Subtotal	12	Subtotal	12
Junior	GEM 3379 Intro to Least Squ Adj. GEM 3366 Photogrammetry and RS GEM 3309 Land Survey Principles GEM L309 Land Survey Principles Lab [More general study courses]	3 GEM 4410 Intro to Global Positions 3 GEM 4405 Route and Construction Survey GEM L405 Route and Construction Survey Lab 3 GEM 3310 Land Survey Practice 1 GEM L310 Land Survey Practice Lab [More general study courses]	3 3 1 3 1 [More general study courses]	GEM 4496 Coop Work Experience 11 1 [More general study courses]
	Subtotal	10	Subtotal	11
Senior	GEM 4409 Hydrology GEM L409 Hydrology Lab [More general study courses]	3 GEM 4407 Land Development 1 GEM L407 Land Development Lab GEM 4499 Geomatics / GIS Projects GEM 4490 Geomatics Capstone [More general study courses]	3 1 2 1 [More general study courses]	[More general study courses]
	Subtotal	4	Subtotal	5/7