

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	9	Subtotal	10
Junior	GEM 3379 Intro to Least Squ Adj. GEM 3366 Photogrammetry and RS GEM 4410 Intro to Global Positions GEM 3309 Land Survey Principles GEM L309 Land Survey Principles Lab [More general study courses]	3 3 3 3 1 [More general study courses]	GEM 4405 Route and Construction Survey GEM L405 Route and Construction Survey Lab 3 1 3 1 [More general study courses]	GEM 4496 Coop Work Experience 11 1 [More general study courses]
	Subtotal	13	Subtotal	8
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