

Geomatics Engineering Sample Curriculum - 2009-2010

Name: _____ E-mail: _____ @osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Math 151 (Calc. & Analytic Geom.) . 5 _____ Engineering 181 (Intro. to Eng. I). 3 _____ Engineering 100.09 (Eng. Survey) 1 _____ GEC 5 _____	Math 152 (Calc. & Analytic Geom.) ..5 _____ Engineering 183 (Intro. Eng. II)....3 _____ Physics 131 (Particles & Motion)....5 _____ Earth Sci. 121 (Dynamic Earth)....5 _____	Math 153 (Calc. & Analytic Geom.) . 5 _____ EG 167C (Prob. Solv. Prg. Eng.)....4 _____ Physics 132 (Elec. & Magnetism) .. 5 _____ English 110 (1 st yr. English Comp.) 5 _____
2	Math 254 (Calc. & Analytic Geom.) . 5 _____ Physics 133 (Thermal/Quantum) .. 5 _____ Stats 245 (Intro. to Statistical Anal.)..5 _____ GS 400 (Intro. to Geomatics).....4 _____	<i>Math 568 (Intro. Linear Algebra).....3 _____</i> <i>C&RP 310 (Intro. to C&RP).....4 _____</i> GS 410 (Spatial Data Analysis).....4 _____ GEC.....5 _____	Chem. 121 (General Chemistry).... 5 _____ <i>EG 410A (Computer Graphics).....3 _____</i> GS 450 (Spatial Data Adj. I).....4 _____ GEC.....5 _____
3	<i>Bus. Fin. 510 (Legal Env. of Bus.)..4 _____</i> <i>ME 410 (Statics).....4 _____</i> GS 550 (Spatial Data Adj. II).....3 _____ GS 560 (History of Surveying).....3 _____	Bus. Fin. 775 (Real Estate Law)....4 _____ CE 406 (Fund. of CE Analysis)4 _____ GS 561 (Boundary Surveying)4 _____ GS 603 (Remote Sensing of Env.)..4 _____	CE 460 (Prof. Aspects of CEE).....1 _____ GS 562 (Subdivision Design)..... 3 _____ GS 625 (Cadastral Info. Systems) . 4 _____ GS 629 (Digital Photogrammetry I) 4 _____ GEC.....5 _____
4	GS 540 (Senior Project I) 1 _____ GS 563 (Land Info. Management) .. 4 _____ GS 607 (Fundamentals of GIS)..... 5 _____ Technical Elective 2-5 _____ GEC.....5 _____	CE 576 (CE Econ. & Planning)4 _____ GS 521 (Geodetic Measurement) ...4 _____ GS 541 (Senior Project II) 1 _____ GS 636 (Map Projections).....4 _____ Technical Elective.....2-5 _____	GS 542 (Senior Project III) 2 _____ GS 608 (Introduction to GPS) 3 _____ Technical Elective 2-5 _____ GEC.....5 _____ GEC.....5 _____

Courses in **bold** are offered once a year. Courses in *italics* are monitored courses in which you must maintain a cumulative point hour-ratio of 2.0. Quarterly course offerings are subject to change. Please check the on-line course bulletin and master schedule for pre-requisite requirements and course availability. Please note that students who need preparatory work before beginning Math 151 will need additional time to complete this curriculum.

GENERAL EDUCATION (35 hours)

English & Communication Skills (10 hrs)

English 110.xx (5) _____
2nd Writing Course (5) _____

Ethics

(May overlap with another GEC category)

_____ () _____

Students must take 25 hours across Social Sciences, Historical Study, and Arts & Humanities with a minimum of 5 hours and maximum of 10 hours per category.

Social Sciences (5-10 hours)

Economics 200 (Required) (5) _____
_____ () _____

Social Diversity

(May overlap with another GEC category)

_____ () _____

Technical Electives (8 hours)

_____ () _____
_____ () _____
_____ () _____

Hours Required:

Pre-Geomatics..... 40
Geomatics Core..... 113
General Education..... 35
Technical Electives..... 8

Historical Study (5-10 hours)

_____ () _____
_____ () _____

3rd Writing Course

(Counted in Geomatics core)

GS 625 (4) _____

Arts & Humanities (5-10 hours)

_____ () _____
_____ () _____

TOTAL HOURS..... 196

Admission to the Geomatics Engineering program requires a minimum cumulative point-hour ratio (CPHR) of 2.0 as well as a minimum secondary point-hour ratio (SPHR) of 2.0 in the following pre-major courses: *Math 151, 152, 153; Physics 131, 132; Earth Sciences 121; Engineering 181, 183 & EG 167.* English 110.xx and Engineering 100.09 must also be completed. Formal application is required.

Students are accepted into the major autumn and spring quarters only. Applications to Major are available at <http://www-ceg.eng.ohio-state.edu/GSUNDERGRAD/forms.php>. Applications are due in spring or summer for autumn entry and winter for spring entry. Contact the Undergraduate Advisor (475 Hitchcock Hall) if you have any questions.