

GGE Masters Hydrography/Ocean Mapping Stream Sept 2011

Requirements:

Course Based MEng: 30 credit hours of courses with at least 12 credit hours at the 6000 level

MScE (Research): 12 ch of courses at the 6000 level; Masters Thesis; 2 Graduate seminars

ON-LINE COURSES AVAILABLE ANY TERM

Suggested Options

FOR 6281 GIS (Jordan)	3 ch On-Line
FOR 6282 Spatial Analyst Extension in ARCGIS(Jordan) Prerequisite FOR 6281	3 ch On-Line

Fall Term 1

Recommended:

GGE 3353 Imaging and Mapping II (Hughes Clarke)	3 ch
GGE 5013 Oceanography for Hydrographic Surveyors (HC)	1.5 ch
GGE 6021/5072 Hydro Data Management (Dodd)	3 ch

Suggested Options: (6 cr hr)

English as a Second Language	no credit
Comp Sci 2023- C/C++	no credit
GGE 6554 Web Based GIS ()	3 ch
GGE 6543 Marine Policy, Law, and Administration (Nichols)	3 ch
GGE 6102 Quantitative Analysis in Geomatics (Santos)	3 ch
GGE 5042 Kinematic Positioning (Santos)	3 ch
GGE 5342 Remote Sensing (Zhang)	3 ch
GGE 3042 Space Geodesy (Langley)	3 ch
MWF 9:30 Lab W 2:30	

Winter Term 2

Recommended:

GGE 6022 Advanced Topics in Ocean Mapping (Hughes Clarke)	3 ch
GGE 6023 Multibeam Sonar: Theory, Measurements & Analysis (requires good programming skills) (Hughes Clarke)	3 ch
GGE 6322 Digital Image Processing (Zhang)	3 ch
GGE 6922: Directed Research Studies	3 ch

For Thesis Students: GGE 6910 Graduate Seminar (proposal) P/F

Suggested Options (3-6 ch)

GGE 6242 Extraterrestrial Positioning (Langley)*	3 ch
GGE 6403 Geographic Information Systems – Data Models and Algorithms ()	3 ch
GGE 6402 Spatial Data Bases ()*	3 ch
GGE 6501 Land (including water covered land) Information Management (Coleman)	3 ch
GGE 6922 Research (Directed Studies)	3 ch
GGE 4403 GIS ()	3 ch
GGE 4313 Imaging and Mapping III (Zhang)	3 ch
TME Technology Management and Entrepreneurship Courses	3 ch

* *See Instructor for Prerequisites*

Summer or Fall Term 3**Recommended:**

GGE 5083 Hydrographic Operations**	3 ch
FOR 6281 GIS (Jordan)	3 ch On-Line
GGE 6922 Research (Directed Studies)	3 ch

For Thesis (MScE) Students: GGE 6910 Second Graduate Seminar

Suggested Options:

FOR 6302 Adv.Optical,thermal Infra.& Radar (Leblon)	3 ch On-Line
FOR 6304 Adv.Studies in Radar Polarimetry and RADARSAT-2 Images (Leblon)	3 ch On-Line
FOR*6313 Adv.Digital Image Proc.In Remote Sensing (Leblon)	3 ch On-Line

* GGE 6242 is offered based on student enrolment – 3 students minimum.

**GGE 5083 is not always available each year.