

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2004 Edition**

**GEOMATICS ENGINEERING**

**INTRODUCTION**

A full set of Geomatics Engineering examinations consists of the following, three-hour examination papers and an engineering report. Candidates will be assigned examinations based on an assessment of their academic background. Examinations from discipline syllabi other than those specific to the candidates' discipline may be assigned at the discretion of PEO's Academic Requirement Committee.

**BASIC STUDIES EXAMINATIONS**

04-BS-1	Mathematics
04-BS-2	Probability and Statistics
04-BS-3	Statics and Dynamics
04-BS-4	Electric Circuits and Power
04-BS-5	Advanced Mathematics
04-BS-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-8	Digital Logic Circuits
04-BS-9	Basic Electromagnetics
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-12	Organic Chemistry
04-BS-13	Biology
04-BS-14	Geology
04-BS-15	Engineering Graphics and Design Process
04-BS-16	Discrete Mathematics

**PROFESSIONAL EXAMS – SPECIFIC TO GEOMATICS ENGINEERING**

**GROUP A**

04-Geom-A1	Surveying
04-Geom-A2	Adjustment of Observations and Data Analysis
04-Geom-A3	Geodesy and Positioning
04-Geom-A4	Photogrammetry
04-Geom-A5	Remote Sensing and Image Analysis
04-Geom-A6	Cadastral Studies
04-Geom-A7	Geospatial Information Systems

**GROUP B**

04-Geom-B1	Digital Terrain Modelling
04-Geom-B2	Satellite Navigation
04-Geom-B3	Networks and Precise Engineering Surveys
04-Geom-B4	Hydrography
04-Geom-B5	Survey Law
04-Geom-B6	Land Use Planning and Environmental Management

**COMPLEMENTARY STUDIES**

98-CS-1	Engineering Economics
98-CS-2	Engineering in Society – Health, Safety, and the Environment
98-CS-3	Management Concepts for Engineers
3.2	Engineering Report