

Human Geography

Bachelor of Arts or Science

GEOGRAPHIC INFORMATION SCIENCE



***Interested in:
Understanding spatial relationships?
Skills using data sets, images and maps?
The application of Information Technology?***

Geographic Information Science explores the way spatial information is derived and used. Geographic databases can be created for geological research and exploration, biological studies, social issues, land-use programs, planning and development, natural hazards and resource and environmental management. Other applications include health, population and geographic relationships research, wide-ranging environmental programs in industry and research as well as commercial applications such as marketing.

Employment opportunities in this field are wide ranging and include specialist GIS work in local councils, research bodies, universities, government departments, exploration, medical research and marketing.

FIRST YEAR

Core Units: Any 100 level COMP, ISYS or STAT unit

Suggested Units:

GEOS111 Geographies of Global Change
GEOS112 The Planet Earth
GEOS115 Materials of the Earth
GEOS118 Foundations for Resource and Environmental Management

SECOND YEAR

Core Units: GEOS264 Geographic Information Systems

Suggested Units:

GEOS216 The Atmospheric Environment
GEOS219 Geographical Perspectives on Population
GEOS237 Natural Hazards
GEOS255 Geological Structures
GEOS266 Earth Surface Processes
GEOS267 Resource and Environmental Management: Issues and Solutions
GEOS281 Managing our Cities

BIOL210, BIOL227, BIOL235, COMP224

THIRD YEAR

Core Units: GEOS378 GIS for Urban and Regional Management

Suggested Units:

GEOS301 Global Climates
GEOS320 Biometeorology
GEOS321 Resource Management
GEOS322 Population, Health and Environment
GEOS326 Urban Management: Issues and Solutions
GEOS328 Environmental Management
GEOS420 Data and Image Processing in Geographics and Exploration
BIOL347, BIOL349, BIOL356, COMP326, COMP327, COMP330, COMP331,

HONOURS

An Honours year comprising course work and a research project is available.

It is recommended that students combine GIS with studies in other fields such as Geography, Geology, Geophysics, Biology and Computing.

These notes are only intended to guide your selection, and you should seek Academic advice and read the Handbook of Undergraduate Studies Unit descriptions and coherencies for details. The offering of Units may change from year to year.

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