UWA Geophysics

Geophysics is the interdisciplinary study of the earth, oceans, atmosphere and beyond using the quantitative methods of physics, mathematics and computer science.

UWA Geophysics: BSc Hons, MSc, PhD
In addition to MSc and PhD research degrees in Geophysics, UWA offers a BSc Hons degree in Geophysics. The primary objective of the UWA Geophysics Honours degree is to provide students with an understanding of the frontiers of modern geophysics with an emphasis on imaging the earth’s interior for applications ranging from resource scales (hydrocarbons, groundwater, geothermal, CO2 sequestration, etc) to global tectonic scales including earthquake seismology. Students will learn and apply key concepts in seismology, wave propagation, 3D and timelapse (4D) imaging of the subsurface, and computational geophysics data modelling and inversion, as well as gain exposure to non-seismic methods such as gravity, electromagnetics (EM), and ground penetrating radar (GPR).

Academic Information
A weighted average mark of 75 percent in Level 3 units of a Physics, Engineering or Geophysics major, or equivalent, is required for admission to the BSc Hons degree program, and the same in Level 4 Honours units for the MSc and PhD degree programs.

For further information
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BSc Hons Geophysics Units
GEOP4001 Exploration Seismology
GEOP4002 Geophysical Data Acquisition and Analysis
SHP4001 Principles of Scientific Computation
SCIE4501-4 Research Dissertation Parts 1-4

Plus ONE of the following units
GEUSS563 Petroleum Resources
OGEG5804 Petroleum Geology and Geophysics

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