

Categorizing student performance levels

GEOL0030 Seismology II

Excellent is the performance expected of students gaining a First class honours (BSc). Typical is the performance currently expected of students at the Lower/Upper Second class boundary (BSc).

Threshold is the minimum performance currently required to gain an honours degree (BSc).

Definitions	Excellent performance	Typical performance	Threshold performance
Intellectual skills - knowledge and understanding	Knowledge base extending well beyond the directly taught programme. Reference to key research papers.	Knowledge based on the directly taught programme and some evidence of enquiry beyond that (e.g., key texts).	Knowledge based on the directly taught programme.
	Highly developed ability to integrate fundamental mathematical and physics concepts with seismological phenomena and observations.	Ability to integrate fundamental mathematical and physics concepts with seismological phenomena and observations.	Basic ability to integrate fundamental mathematical and physics concepts with seismological phenomena and observations.
	Highly developed ability to process and interpret seismic data.	Ability to process and interpret seismic data.	Basic ability to process and interpret seismic data.
	Highly developed quantitative understanding of key seismological phenomena, notably seismic wave propagation and earthquake source processes.	Quantitative understanding of key seismological phenomena, notably seismic wave propagation and earthquake source processes.	Basic quantitative understanding of key seismological phenomena, notably seismic wave propagation and earthquake source processes..
	Highly developed ability to identify applications of seismological methods for imaging earthquakes and Earth structure.	Ability to identify applications of seismological methods for imaging earthquakes and Earth structure.	Basic ability to identify applications of seismological methods for imaging earthquakes and Earth structure.
Practical skills	Highly developed ability to describe and interpret key characteristics of seismic data.	Ability to describe and interpret key characteristics of seismic data.	Basic ability to describe and interpret key characteristics of seismic data.
	Highly developed ability to plan a new seismic imaging project and to plan and perform an earthquake source characterisation study.	Ability to plan a new seismic imaging project and to plan and perform an earthquake source characterisation study.	Basic ability to plan a new seismic imaging project and to plan and perform an earthquake source characterisation study.
	Highly developed ability to model seismic wave	Ability to model seismic wave propagation and invert seismic data.	Basic ability to model seismic wave propagation and invert seismic data.

	propagation and invert seismic data.		
Communication skills	Highly developed ability to write critically, efficiently and effectively.	Ability to write efficiently and effectively.	Ability to write effectively.
	Ability to present graphical data highly effectively.	Ability to present graphical data effectively.	Ability to present graphical data with guidance.
	Ability to produce a report which critically and effectively conveys key findings.	Ability to produce a report which effectively conveys key findings.	Basic ability to produce a report.
Numeracy and C & IT skills	Highly developed ability to use specialist software to analyse and model seismic data.	Ability to use specialist software to analyse and model seismic data.	Ability to use specialist software to analyse and model seismic data.
	Highly developed ability to present and visualise data using specialist software (e.g., Matlab).	Ability to present and visualise data using specialist software (e.g., Matlab).	Ability to present and visualise data using specialist software (e.g., Matlab).
	Highly developed ability to build own basic software codes to analyse and model seismic data.	Ability to build own basic software codes to analyse and model seismic data.	Basic ability to build own basic software codes to analyse and model seismic data.
Interpersonal / teamwork	Ability to work highly effectively in a team as a leader or participant.	Ability to contribute effectively to team work.	Some ability to contribute to team work.
Self management	Highly developed ability for independent study, time management and organization.	Ability for independent study, time management and organization.	Basic ability for independent study, time management and organization.
	Ability to reflect on the process of learning and to evaluate personal strengths and weaknesses.	Ability to analyse personal strengths and weaknesses.	