

Course Title: **Advanced Scientific Inquiry**

Course Code: **SCIE808**

Descriptor Start Date: **01/01/2025**

POINTS: **15.00**

LEVEL: **8**

PREREQUISITE/S:

COREQUISITE/S:

RESTRICTION/S: **SCIE806**

LEARNING HOURS

Hours may include lectures, tutorials, online forums, laboratories. Refer to your timetable and course information in Canvas for detailed information.

Total learning hours: 150

PRESCRIPTOR

Equips students with the knowledge and skills required to carry out and communicate their own science research, particularly in the New Zealand environment. Explores the importance of, and frameworks for, carrying out culturally sensitive, ethical and legal science. Provides students with the ability to critique published science.

LEARNING OUTCOMES

1. Evaluate the links between a general philosophy of science framework and contemporary scientific thought and practice.
2. Develop research questions, hypotheses, and research objectives from the analysis and critique of scientific literature.
3. Assess key issues related to science research design.
4. Evaluate key issues related to the ethical and legal conduct of science.
5. Critically discuss cultural issues associated with scientific practice.

Disclaimer: Course descriptors may be amended between teaching periods/semesters

CONTENT

- Historical underpinnings of scientific thought leading to present-day approaches to scientific inquiry
- Ethical frameworks for carrying out science in New Zealand
- Application of ethics theory to becoming a research scientist or consultant
- The management of scientific research and development projects
- Legal frameworks for carrying out and commercialising science in New Zealand
- Funding opportunities and grant writing
- Cultural safety in science
- Te Tiriti o Waitangi
- Critical review of science papers, grant applications and other forms of science communication
- Public relations and communication skills in scientific research practice
- Peer review process
- Using the literature to develop new research projects

LEARNING & TEACHING STRATEGIES

This course will be offered as a combination of structured teaching sessions, tutorials and independent study.

ASSESSMENT PLAN

Assessment Event	Weighting %	Learning Outcomes
Assignment 1 (1500 words)	35.00	LO1, LO2,LO3, LO4, LO5,
Assignment 2 (1500 words)	35.00	LO1, LO2,LO3, LO4, LO5
Assignment 3 (1000 words)	30.00	LO1, LO2,LO3, LO4, LO5

Grade Map

MAP1

A+ A A- Pass with Distinction
B+ B B- Pass with Merit
C+ C C- Pass
D Fail

Overall requirement/s to pass the course:

Achievement of a minimum overall grade of C- is required to pass this course.

LEARNING RESOURCES

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For further information, contact: Te Ara Hauora A Putaiao - Faculty of Health & Environmental Science

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Principal Programme: HA1037, Master of Science (Research)

Related Programme/s: AK1026 Postgraduate Certificate in Medical Laboratory Science
AK1027 Postgraduate Diploma in Medical Laboratory Science
AK1028 Master of Medical Laboratory Science
AK1037 Master of Science (Research)
AK1038 Postgraduate Diploma in Science
AK1039 Postgraduate Certificate in Science
AK1040 Bachelor of Science (Honours)
AK2037 Master of Science
AK2040 Bachelor of Advanced Science (Honours)

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