



Science

GEOG 103 : Mapping Our World (15 POINTS)

Course Prescription

An introduction to contemporary geospatial technologies such as web-mapping, GPS and tracking devices (such as your phone), and GIS. Covers key concepts and principles behind these tools and their use, along with practical experiences through laboratories. Critical and theoretical perspectives on the tools, their use, and their social impacts will be discussed.

Course Overview

This course is designed for students interested in collecting, analysing, and visualizing spatial data. As an introductory course, students do not need special preparation. The course is useful for students pursuing the Information Science major as it provides conceptual and practical knowledge to use, manage, present, and communicate geospatial information.

Course Requirements

No pre-requisites or restrictions

Capabilities Developed in this Course

- Capability 1: Disciplinary Knowledge and Practice
- Capability 2: Critical Thinking
- Capability 3: Solution Seeking
- Capability 4: Communication and Engagement
- Capability 5: Independence and Integrity
- Capability 6: Social and Environmental Responsibilities

Graduate Profile: [Bachelor of Science](#)

Learning Outcomes

By the end of this course, students will be able to:

1. Demonstrate how and why public and private organizations produce and use geographic data, including

topographic maps, remotely sensed imagery, and thematic maps. Students will be able to demonstrate disciplinary knowledge and practice based on material delivered through the lecture programme.

(Capability 1, 2 and 3)

2. Understand and explain in overview how it is that geographical data are captured, stored, used and disseminated. Students should be able to use geospatial data to solve complex problems. (Capability 2, 3 and 5)
3. Understand and describe some of the characteristics, availability, limitations and potential pitfalls of geospatial information. Students should be able to evaluate information and spatial data critically. Students will be aware of the ethical implications of the collection and dissemination of geospatial data. Students should be aware of the social and environmental responsibilities surrounding the capture, analysis and dissemination of a range of geospatial data. (Capability 2 and 6)
4. Develop the ability to use, manage, present, and communicate geospatial information. Students should become effective communicators of geospatial information using cartographic and visualisation techniques in a clear and organised manner. (Capability 4 and 5)

Assessments

Assessment Type	Percentage	Classification
Laboratories	30%	Individual Coursework
Test	15%	Individual Test
Project	15%	Individual Coursework
Final Exam	40%	Individual Examination
4 types	100%	

Assessment Type	Learning Outcome Addressed			
	1	2	3	4
Laboratories	✓	✓	✓	✓
Test	✓	✓	✓	
Project		✓	✓	✓
Final Exam	✓	✓	✓	

Tuākana

As part of the University-wide Tuākana community, The School of Environment Tuākana Programme aims to provide a welcoming learning environment for, and enhance the success of, all of our Māori and Pacific students. We are led by the principles of tautoko (support) and whanaungatanga (connection), and hope you find a home here at the School. Students who have identified as Māori and/or Pacific will receive an invitation

to our online portal introducing the Programme, the resources we have available, and how you can get involved.

This course is supported by a designated Tuākana tutor with appropriate knowledge of the course material. They will lead group study sessions and be available for additional assistance throughout the semester. For more information regarding the Programme, visit Tuākana Programme website at <https://www.auckland.ac.nz/en/science/study-with-us/maori-and-pacific-at-the-faculty/tuakana-programme.html>

Key Topics

- Spatial data models
- GIS and computers
- Remote sensing
- Geo-visualisation and Web maps
- Human and animal movement
- GIS and Social Media
- GIS applications in Climate Change and Carbon Sinks, Natural Hazards, Deforestation, Health, among others.

Learning Resources

Learning resources will be provided via Canvas

Special Requirements

No special requirements defined.

Workload Expectations

This course is a standard 15 point course and students are expected to spend on average 10 hours per week involved in each 15 point course that they are enrolled in.

For this course, you can expect 22 hours of lectures, 16 hours of labs, 70 hours of reading and thinking about the content and 42 hours of work on assignments and/or test preparation.

Digital Resources

Course materials are made available in a learning and collaboration tool called Canvas which also includes reading lists and lecture recordings (where available).

Please remember that the recording of any class on a personal device requires the permission of the instructor.

Copyright

The content and delivery of content in this course are protected by copyright. Material belonging to others may have been used in this course and copied by and solely for the educational purposes of the University under license.

You may copy the course content for the purposes of private study or research, but you may not upload onto any third party site, make a further copy or sell, alter or further reproduce or distribute any part of the course content to another person.

Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting their learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the internet. A student's assessed work may be reviewed against online source material using computerised detection mechanisms.

Inclusive Learning

All students are asked to discuss any impairment related requirements privately, face to face and/or in written form with the course coordinator, lecturer or tutor.

Student Disability Services also provides support for students with a wide range of impairments, both visible and invisible, to succeed and excel at the University. For more information and contact details, please visit the Student Disability Services' website at <http://disability.auckland.ac.nz>

Special Circumstances

If your ability to complete assessed coursework is affected by illness or other personal circumstances outside of your control, contact a member of teaching staff as soon as possible before the assessment is due.

If your personal circumstances significantly affect your performance, or preparation, for an exam or eligible written test, refer to the University's aegrotat or compassionate consideration page: <https://www.auckland.ac.nz/en/students/academic-information/exams-and-final-results/during-exams/aegrotat-and-compassionate-consideration.html>.

This should be done as soon as possible and no later than seven days after the affected test or exam date.

Student Feedback

During the course Class Representatives in each class can take feedback to the staff responsible for the course and staff-student consultative committees.

At the end of the course students will be invited to give feedback on the course and teaching through a tool called SET or Qualtrics. The lecturers and course co-ordinators will consider all feedback.

Your feedback helps to improve the course and its delivery for all students.

Student Charter and Responsibilities

The Student Charter assumes and acknowledges that students are active participants in the learning process and that they have responsibilities to the institution and the international community of scholars. The University expects that students will act at all times in a way that demonstrates respect for the rights of other students and staff so that the learning environment is both safe and productive. For further information visit Student Charter (<https://www.auckland.ac.nz/en/students/forms-policies-and-guidelines/student-policies-and-guidelines/student-charter.html>).

Disclaimer

Elements of this outline may be subject to change. The latest information about the course will be available for enrolled students in Canvas.

In this course you may be asked to submit your coursework assessments digitally. The University reserves the right to conduct scheduled tests and examinations for this course online or through the use of computers or other electronic devices. Where tests or examinations are conducted online remote invigilation arrangements may be used. The final decision on the completion mode for a test or examination, and remote invigilation arrangements where applicable, will be advised to students at least 10 days prior to the scheduled date of the assessment, or in the case of an examination when the examination timetable is published.