

EESC22 Exploration Geophysics
Fall 2024

Instructor: Tom Meulendyk, Office EV225
Email: thomas.meulendyk@utoronto.ca
Office hours: Tues 10:30 am- 12:30pm

Lecture: Mon 3-5 pm HL B108
Practical: PRA0001 Tues 3-5 pm BV469
PRA0002 Tues 3-5 pm BV469
Teaching Assistant: Zexi Sun



Applications and limitations of the techniques covered in this course. (petroleum and mineral deposits),
In lecture with a review of
discussion of the field data acquisition procedures, data
histories will be used to illustrate real-world applications.

Practical portion of the course that provides hands-on
equipment in different field settings. Processing
software in the computer lab and applied to data collected
size geological concepts underlying physical and
a thorough understanding of the methods and their

ity to:

mathematical principles as well as strengths and
technique
e(s) are appropriate for specific problem.
urvey to acquire data with the geophysical equipment

roduction to Geological Geophysics by Mussett, A.E. and Khan, M.A.
dge University Press. 2000.

ee online through UofT Library/Scholars Portal Books.

Tentative Schedule:

Week	Lecture	Topic	Practical	Location (PRA1/PRA2)	Textbook	Assignment (due date)
1	9-Sep	Introduction and Data Acquisition	10-Sep	EV222	Chapter 1 & 2	#1 (20-Sep 4 pm)
2	16-Sep	Seismology	17-Sep	EV222	Chapter 4	#2 (27-Sep 4 pm)
3	23-Sep	Refraction Seismology	24-Sep	H-Wing Patio	Chapter 6	#3 (11-Oct, 4 pm)
4	30-Sep	Reflection Seismology	01-Oct	BV469	Chapter 7	#4 (25-Oct, 4 pm)
5	07-Oct	Ground				

Assignments:

There will be several assignments for this course. Some portions can be completed at home while other portions will require data collected during field surveys and use of software in the computer lab. They must be physically submitted (with any required plots or figures firmly attached) to the class drop box outside EV262. Electronic copies of assignments will not be accepted. Students are responsible for ensuring their lab assignments are submitted on time.

Late or Missed Assignments

Late submissions will be subject to an immediate penalty of 20%. Late assignments can be submitted in person at lecture the following Monday at 3 pm otherwise they will not be marked.

Exams:

The midterm and final examinations will be multiple choice, short answer questions, drawings and some calculations. A formula sheet will be provided. Students not to be 6.939 (the)-1.7 (y)]TJ7 (a)-1.6 (r)-1.6 (d)-11.1

Accessibility Needs:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible.

AccessAbility Services staff (located in Rm AA142, Arts and Administration Building) are available by