

Policy about course outlines can be found in Section 23.4 (2) of the University Calendar

IPG 512: Seismic Interpretation

Instructor: Dr. M. Van der Baan
CAB 3-09

Email: Mirko.vanderBaan@ualberta.ca

Office hours: MW 4:00-5.30pm.
It is strongly recommended to contact me by email to confirm an appointment.

Class time: WF12:00-13:20

Lab time: M 12:00-13:20, starting Oct 4.

Place: Tory, Room 2-87

Website: eClass

Objective:

On completion of this module, the student will be able to understand the principles and practice of interpreting seismic reflection data.

Syllabus:

Laboratory-based course focusing on interpretation of previously processed seismic data. Integration of well log information via calculation of synthetic seismograms in order to assist the interpretation of such data. Construction of isochrons and isopachs, time to depth conversions, location of faults, and creation of seismic attribute maps to assist geological interpretations.

Course Prerequisites:

Obligatory for IPG students; for non-IPG students: consent of course instructor is required. It is important to prepare yourself for this course through a review of the prerequisite material. Students who do not have the required prerequisites at the time of taking this course should not expect supplementary professorial tutoring from the instructor.

Reference texts (not required):

1. Bacon, M., R. Simm and T. Redshaw (2003) 3-D Seismic Interpretation: Cambridge
2. Badley, N (1985) Practical Seismic Interpretation: Reidl Press

3. Lines L.R. and Newrick R. T. (2004) Fundamentals of geophysical interpretation: SEG

Representative Evaluative Material: Will be posted on eClass.

Grade Evaluation:

Letter Grade	Grade Point Value
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
F	0.0

EXAMS	WEIGHTING	DATE
Assignment #1	15%	Oct. 27*
Assignment #2	45%	Dec. 1*
Final Exam*	40%	Dec. 15**

* Hand in: At class time of day requested; Penalties of 5% per 24 hour period late without legitimate excuse.

** 'WARNING: Students must verify this date on BearTracks when the Final Exam Schedule is posted'

Grades are unofficial until approved by the Department and/or Faculty offering the course.

Missed Assignments:

A student who cannot complete a term assignment due to incapacitating illness, severe domestic affliction or other compelling reasons can apply for extension of time to complete an assignment.

Deferral of term work is a privilege and not a right; there is no guarantee that a deferral will be granted. Misrepresentation of Facts to gain a deferral is a serious breach of the *Code of Student Behaviour*.

Deferred Final Examination:

A student who cannot write the final examination due to incapacitating illness, severe domestic affliction or other compelling reasons can apply for a deferred final examination. Such an application must be made to the student's Faculty office within 48 hours of the missed examination and must be supported by a Statutory Declaration (*in lieu* of a medical statement form) or other appropriate documentation (Calendar section 23.5.6). Deferred examinations are a privilege and not a right; there is no guarantee that a deferred examination will be granted. Misrepresentation of Facts to gain a deferred examination is a serious breach of the *Code of Student Behaviour*.

Deferred exams will be held on Tuesday 25 January 2:00-5:00pm.

Reexamination:

A student who writes the final examination and fails the course may apply for a reexamination. Reexaminations are rarely granted in the Faculty of Science. These exams are governed by University (Calendar section 23.5.5) and Faculty of Science Regulations (Calendar section 182.5.9). Misrepresentation of Facts to gain a reexamination is a serious breach of the *Code of Student Behaviour*.

Student Responsibilities:

ACADEMIC INTEGRITY: 'The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the *Code of Student Behaviour* (online at www.ualberta.ca/secretariat/appeals.htm) and avoid any behaviour which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.'

All forms of dishonesty are unacceptable at the University. Any offense will be reported to the Senior Associate Dean of Science who will determine the disciplinary action to be taken. Cheating, plagiarism and misrepresentation of facts are serious offenses. Anyone who engages in these practices will receive

at minimum a grade of zero for the exam or paper in question and no opportunity will be given to replace the grade or redistribute the weights. As well, in the Faculty of Science the sanction for **cheating** on any examination will include a **disciplinary failing grade** (no exceptions) and senior students should expect a period of suspension or expulsion from the University of Alberta.

EXAMS:

Your student photo I.D. is required at exams to verify your identity. Students will not be allowed to begin an examination after it has been in progress for 30 minutes. Students must remain in the exam room until at least 30 minutes has elapsed. Electronic equipment *other than calculators* cannot be brought into examination rooms *and hats should not be worn*.

CELL PHONES: Cell phones are to be turned off during lectures, labs and seminars. Cell phones are not to be brought to exams.

STUDENTS WITH DISABILITIES: Students who require accommodation in this course due to a disability are advised to discuss their needs with Specialized Support & Disability Services (2-800 Students' Union Building).

ACADEMIC SUPPORT CENTRE: Students who require additional help in developing strategies for better time management, study skills or examination skills should contact the Academic Support Centre (2-703 Students' Union Building).

Policy about course outlines can be found in section 23.4(2) of the University Calendar.

Disclaimer: Any typographical errors in this Course Outline are subject to change and will be announced in class. The date of the final examination is set by the Registrar and takes precedence over the final examination date reported in this syllabus.

Note: Recording is permitted only with the prior written consent of the professor or if recording is part of an approved accommodation plan.