

EE 338 Discrete-Time Signals and Systems

Section A2, Fall 2009

Instructor: Dr. Mrinal Mandal **Office:** ECERF W2-105/W2-055

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Marker: Bo Hu (for grading assignments) **Email:** bhu2@ualberta.ca

Lectures: 11.00-12.20 p.m. Tuesday, and Thursday in NRE 1 003

Seminar/Lab: Tuesday-Friday (depending on your section)
All Labs will be conducted in Room: ETLE5-012.

The lab instructors are:

Gongpu Wang (gongpu@ualberta.ca) and
Gencheng Guo (gencheng@ualberta.ca)

Office Hours: Monday, 2-3 pm and Wednesday, 10-11 am.

Feel free to walk in at other times if I am available. Or, make an email appointment.

Website: <http://www.ece.ualberta.ca/~mandal/courses/EE338/>

Text Book: Mrinal Mandal and Amir Asif, Continuous and Discrete-time Signals and Systems, Cambridge University Press, Aug 2007.

UofA Bookstore price: \$115.30 (as of Aug'09).

The textbook is NOT mandatory, but highly recommended.

Syllabus: The course covers the following material.

of Weeks

Topics

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| 1 | Introduction to Discrete signals and systems (Chapters 1 & 2) |
| 1 | Sampling Theory (Chapter 9) |
| 2 | Time Domain Analysis (Chapter 10) |
| 3 | Discrete Fourier transform (Chapter 11 & 12) |
| 2 | z-transform (Chapter 13) |
| 3 | Filter Design (Chapters 14 & 15) |

Assignments: Assignments are to be submitted in the assignment box by the due date and time. Solutions will be posted after the due date. Assignments may not be completely marked. If you are ill, bring a doctor's note that clearly states the duration of serious sickness to get partial credits for missing assignments.

Examinations: 70 Minutes **closed-book** midterm exam 11 am on Thursday, Oct 22 , 2009
2.5 hours **closed-book** final exam 9.00 am on Tuesday, Dec 15, 2009
For midterm and final exams, required formula sheet will be provided.

Course Evaluation:	Assignments:	15%
	Lab	15%
	Mid-Term:	25%
	Final Exam:	45%

Final Grades will be assigned based on relative class standing in terms of overall performance.

Information on the Seminar/Lab

The seminar component has been integrated into the lab. Therefore, there will not be a separate seminar. It will be primarily based on MATLAB, and will be held in the Linux Laboratory in ETLE5 012. Seminars/Labs begin on the week of Sept 8, 2009.

More details will be provided by the Laboratory instructors:

Gencheng Guo (gencheng@ualberta.ca) and Gongpu Wang (gongpu@ualberta.ca)

The Lab instructors are responsible for the instruction of labs and seminars. The Lab TAs provide assistance to lab instructors during lab sessions, and are responsible for marking lab reports.

Lab TAs: Cheng Lu (lcheng4@ualberta.ca), Tao Xu (tx1@ualberta.ca)

Lab Website: <http://www.ece.ualberta.ca/~ee338/>

Additional Information:

Assignment Grading: If you are not satisfied with assignment grading, send an email to Bo Hu (bhu2@ualberta.ca) who will grade the assignments, and try to sort out the issue. If you are still not satisfied, let me know.

Mid-Term and Final Exams: The exams are closed book. No course materials are allowed. A formula sheet, however, will be provided. **Only approved nonprogrammable calculator** will be allowed (No excuse will be entertained for bringing programmable calculators). For more details on calculator policy: <http://www.engineering.ualberta.ca/calculator.cfm>.

Academic Integrity and Honesty: 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.uofaweb.ualberta.ca/secretariat/studentappeals.cfm) 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. For more information, please refer to the [University Regulations](#) Link on the Course site.