



COURSE OUTLINE
ELEC 484(538) – Audio Signal Processing
Summer 2007

Instructor:

Dr. G. Tzanetakis
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Office Hours:

Days: Mon
Time: 9-10
Location: ECS606

Lectures:

Section(s): K01
Days: Mon-Thur
Time: 10:00-11:15
Location: ECS108

Labs:

Section(s)
N/A

Location: ELW

Days Time

Required Text:

Title: Digital Audio Signal Processing
Author: U. Zolzer
Publisher: Wiley
Year: 2002

Optional Text:

Title: A Digital Signal Processing Primer
Author: Ken Steeglitz
Publisher: Addison-Wesley
Year: 1996

References:

Assessment:

Assignments:	35 %	
Mid-term exam	35 %	Date: 21 June 2006
Final project	30 %	(+ survey paper for graduate students ELEC538)

Due dates for assignments:

tbd

The final grade obtained from the above marking scheme will be based on the following percentage-to-grade point conversion:

90	≤	A+	≤	100
85	≤	A	<	90
80	≤	A-	<	85
75	≤	B+	<	80
70	≤	B	<	75
65	≤	B-	<	70
60	≤	C+	<	65
55	≤	C	<	60
50	≤	D	<	55
35	≤	E	<	50
		F	<	35
		N		

Fail, conditional supplemental exam - for undergraduate courses only.

Fail, no supplemental exam.

Fail, did not write examination or otherwise complete course requirements by the end of the term or session; no supplemental exam.

Syllabus

Fundamentals: Filters, A/D, oversampling converters, jitter, dither, spectral analysis. Formats: CD, DVD, SACD. Perceptual coding: MP3, AAC. Sound synthesis: modal, additive, subband vocoder, subtractive, LPC, non-linear, FM, physical modelling, granular. Spatial audio, surround sound. Noise reduction. Systems and applications.

Posting of Grades

The Department of Electrical and Computer Engineering will no longer post grades. Students may access their grades via the Internet at <http://www.uvic.ca/reco/> and selecting WebView (Student Records On-Line).

Guidelines on Religious Observances

1. Where classes or examinations are scheduled on the holy days of a religion, students may notify their instructors, at least two weeks in advance, of their intention to observe the holy day(s) by absenting themselves from classes or examinations.
2. Instructors will provide reasonable opportunities for such students to make up work or missed examinations.
3. Students will cooperate by accepting the provision of reasonable opportunities for making up work or missed examinations.
4. The University Secretary's Office will distribute a multi-faith calendar to each academic unit annually.

Commitment to Inclusivity and Diversity

The University of Victoria is committed to promoting, providing and protecting a positive, supportive and safe learning and working environment for all its members.

Standards of Professional Behaviour

You are advised to read the Faculty of Engineering document Standards for Professional Behaviour at <http://www.engr.uvic.ca/policy/professional-behaviour.html> which contains important information regarding conduct in courses, labs, and in the general use of facilities.