



**COURSE OUTLINE**  
**ELEC 484 – Audio Signal Processing**  
**Summer 2009**

**Instructor:**

Dr. P.F. Driessen  
Phone: 8688  
E-mail: peter@ece.uvic.ca

**Office Hours:**

Days: Mon  
Time: 2-3  
Location: EOW435

**Lectures:**

Section(s): K01  
Days: Mon-Thur  
Time: 10:00-11:15  
Location: ECS 104

**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: Real Sound Synthesis for Interactive ...  
Author: P. Cook  
Publisher: AK Peters  
Year: 2002

**References:**

Notes and readings on course website <http://www.ece.uvic.ca/~peter/48409/484index.html>

**Assessment:**

Assignments: 35 %  
Mid-term exam 35 %  
Final project 30 %

Date: 16 July 2009

**Due dates for assignments:**

As listed on course website <http://www.ece.uvic.ca/~peter/48409/484index.html>

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 from calendar**

Fundamentals: 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.