



**COURSE OUTLINE**  
**ELEC 460 – Control Theory and Systems II**  
**Spring 2014**

(see also: <http://www.ece.uvic.ca/~pan/ELEC460/ELEC460.html> )

**Instructor:**

Dr. Pan Agathoklis  
 Phone: 721-8618  
 E-mail: pan@ece.uvic.ca

**Office Hours:**

Days: Wednesdays  
 Time: 10:00 a.m. – 12:00 noon  
 Location: EOW 423

**Lectures:**

**A-Section(s):** AO1/CRN 21125, AO2/CRN 21126  
 Days: Mondays and Thursdays  
 Time: 8:30 – 9:50 a.m.  
 Location: CLE A202

**Required Text:**

Title: Discrete Time Control Systems  
 Author: K. Ogata  
 Publisher: Prentice-Hall  
 Year: 1995

**Assessment:**

Assignments: 5%  
 Mid-term 35% Date: Monday, February 24, 2014  
 Final 60%

**Due dates for assignments:** see <http://www.ece.uvic.ca/~pan/ELEC460/ELEC460.html>

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

Passing Grades	Grade Point Value	Percentage for Instructor Use Only	
A+	9	90 – 100	
A	8	85 – 89	
A-	7	80 – 84	
B+	6	77 – 79	
B	5	73 – 76	
B-	4	70 – 72	
C+	3	65 – 69	
C	2	60 – 64	
D	1	50 – 59	
Failing Grades	Grade Point Value	Percentage for Instructor Use Only	Description
E	0	35 - 49	Fail, conditional supplemental exam. (For undergraduate courses only)
F	0	0 – 49	Fail, no supplemental.
N	0	0 – 49	Did not write examination, Lab or otherwise complete course requirements by the end of term or session; no supplemental exam.

The rules for supplemental examinations are found on page 80 of the current 2013/14 Undergraduate Calendar.

<b>Term in which E Grade Was Obtained</b>	<b>Application Deadline for Supplemental Exam</b>	<b>Supplemental Exam Date</b>
First term of Winter Session (Sept – Dec)	February 28 in the following term	First week of following May
Second term of Winter Session (Jan – Apr)	June 30 in the following term	First week of following September
Summer Session (May – Aug)	October 31 in the following term	First week of following January

Deferred exams will normally be written at the start of the student's next academic term; i.e., approximately 4 months following the deferral of the exam.

### **Course Description**

Sampling in Control Systems. The z-transform and response between sampling instants. Analysis of sampled data systems and stability testing. State-space analysis and design of continuous and discrete systems. Controllability, observability and zero input stability analysis. Pole placement techniques. (*Prerequisite: 360*)

### **Note to Students:**

**Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the ECE Chair by email or the ECE Chair's secretary to set up an appointment.**

### **Accommodation of Religious Observance**

See <http://web.uvic.ca/calendar2013/GI/GUPo.html>

### **Policy on Inclusivity and Diversity**

See <http://web.uvic.ca/calendar2013/GI/GUPo.html>

### **Standards of Professional Behaviour**

You are advised to read the Faculty of Engineering document Standards for Professional Behaviour at <http://www.uvic.ca/engineering/current/undergrad/index.php#section0-25> which contains important information regarding conduct in courses, labs, and in the general use of facilities.

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult

<http://web.uvic.ca/calendar2013/FACS/UnIn/UARe/PoAcI.html> for the UVic policy on academic integrity.

<p><b>Plagiarism detection software may be used to aid the instructor and/or TA's in the review and grading of some or all of the work you submit.</b></p>
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