SENG 440 – Embedded Systems

SUMMER 2015 (201505)

Instructor
Dr. Mihai SIMA
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E-mail: msima@ece.uvic.ca

Office Hours
Days: Monday
Time: 13:00 – 15:00
Location: EOW-313

Teaching Assistant
Cheng LEI
E-mail: rexlei@uvic.ca

Course Objectives
• Expose the students to the embedded systems domain
• Introduce design metrics for embedded systems
• Make the students understand how to approach the design of embedded systems
• Show the students where to look for information and how to interpret it

Learning Outcomes
• Ability to choose an appropriate embedded processor for a specific application
• Ability to write optimized embedded software
• Ability to implement embedded applications in fixed-point arithmetic
• Ability to perform hardware-software co-design

Syllabus

A-Section(s):
A01 / CRN 30734
A02 / CRN 30735

Days: Monday, Thursday
Time: 8:30 – 10:00
Location: ECS-104
<table>
<thead>
<tr>
<th>Required Text</th>
<th>Optional Text</th>
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</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td><strong>Author:</strong></td>
</tr>
<tr>
<td>Course Notes (available online)</td>
<td>Mihai SIMA</td>
</tr>
<tr>
<td><strong>Publisher:</strong></td>
<td><strong>Title:</strong></td>
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<tr>
<td>UVic</td>
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<td><strong>Year:</strong></td>
<td><strong>Author:</strong></td>
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**Assessment:**

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<tr>
<th>Project</th>
<th>50%</th>
<th>Due Dates: Thursday, July 30, 2015</th>
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<tbody>
<tr>
<td>Mid-term</td>
<td>20%</td>
<td>Date: Monday, June 15, 2015 or Thursday, June 18th, 2015 (TBD)</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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**Notes:**

Failure to complete all project requirements will result in a grade of N being awarded for the course. Failure to pass the final exam will result in a failing grade for the course.

The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar.

**Assignment of E grade and supplemental examination for this course will be at the discretion of the Course Instructor. The rules for supplemental examinations can be found in the current Undergraduate Calendar.**

[http://web.uvic.ca/calendar/FACS/UnIn/UARe/Grad.html](http://web.uvic.ca/calendar/FACS/UnIn/UARe/Grad.html)

**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 Chair of the Department by email or the Chair's Secretary to set up an appointment.

**Accommodation of Religious Observance**

[http://web.uvic.ca/calendar/GI/GUPo.html](http://web.uvic.ca/calendar/GI/GUPo.html)

**Policy on Inclusivity and Diversity**

[http://web.uvic.ca/calendar/GI/GUPo.html](http://web.uvic.ca/calendar/GI/GUPo.html)

**Standards of Professional Behaviour**

You are advised to read the Faculty of Engineering document Standards for Professional Behaviour in current Undergraduate Calendar, 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 entry in current Undergraduate Calendar for the UVic policy on academic integrity.
Course Lecture Notes

Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.