

COEN/ECE CAPSTONE PROJECTS

Orientation Session

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Capstone projects (2011-2012)

- Engineering design
- Team work (3 ~ 6)
- Multi-discipline – team
- Integrated knowledge/skills – individuals
- Initiatives, creativity



Capstone projects (2011-2012)

- Project management
- Judgment
- Cost management
- Communications, technical presentation



Capstone projects (2011-2012)

Professionalism

- Technical qualification knowledge/skills
- Responsibility
- Professional ethics
- Professional practice



Registration requirements

- 75 credits earned
- All the required 2xx courses completed
- Prerequisites completed
- Graduate audit



Projects and Groups

- Projects given by
 - ◆ Faculty members – project list in the web
 - ◆ Students, approvals needed
 - ◆ Industry, approvals needed
- Groups 3 ~ 6 members
 - ◆ within the department
 - ◆ other departments in ENCS

Projects selection by Sept.19, 2011

- Selection form
- Memo
- 5 pages
- Signatures

ELEC & COEN 490 Project/Group Selection Form
 For Students who have a supervisor

Date _____

Group Members

Name	Option (program)	ID Number	Signature

Group Skill Set (list the areas in which the group members would like to work)

Provide Project Title

Supervisor Name: _____ Signature: _____ Date: _____

COEN/ELEC490 Coordinator: _____ Signature: _____ Date: _____

Additional Information:

3-Phase Procedure

Sept 2011 – April 2012

- Proposal/planning by Oct 2011
- Design/implementation by Jan. 2012
- Completion end-March 2012



Phase 1 Sept – Oct 2011

- Project definition
Technical contents of the project, what, how
- Task assignment for each group member
Who is doing what
- Timing
scheduling
- Budget – money, expenditure



Phase 1 Sept – Oct 2011

- Report due Oct 14, at 12:00pm
- Form and style guide
- Oral presentation: week of Oct. 17
book the time slot, the supervisor must attend

Phase 2 Oct. 2011 – Jan. 2012

- Design and implementation
 - ◆ Progress, “preliminary” results
 - ◆ Review of the initial plan
- Deliverable
 - ◆ Reports due Jan. 13, 2012
 - ◆ Oral presentation in the week of Jan. 16, 2012



Phase 3 end-Jan. 2012 – Mar. 2012

- Completion of the project
 - ◆ Last stage of design and implementation
 - ◆ Verification and testing
- Reports due mid-March 2012
 - ◆ Report of the capstone project, not a phase-3 report
- Demo/poster, end-March 2012
 - ◆ Illustration of the achievements
 - ◆ Faculty-wide, open to public



Critical points – deliverable

- Reports
 - ◆ Form and style guide, page limit
 - ◆ Signing the Form of Expectations of Originality
 - ◆ Deadlines, penalty of 10% of the full grade per day
- Oral presentation, EV5.251 if not otherwise specified
 - ◆ Max. 15 minutes for the talk, min. 5 minutes for Q/A
 - ◆ Book the slot as early as possible, first come first serve
 - ◆ Talk of each group member



Critical points – Resources

- Tools and parts
 - ◆ Available in the department
 - ◆ To be found with the help of the supervisor
 - ◆ To be obtained from other sources
 - ◆ To be purchased
- Purchasing
 - ◆ Rules and regulations, deadlines
 - ◆ Delay in ordering and delivering



Most important

- Academic integrity

Zero tolerance for any kind of academic misconduct

- License agreements

- Copy right agreements

- Rules and regulations of the university



Grading

Phase 1	Report	10%	Supervisor(s) and academic coordinator*
	Presentation	10%	
Phase 2	Report	10%	Supervisor(s) and academic coordinator*
	Presentation	10%	
Phase 3	Report	25%	Supervisor(s) and academic coordinator*
	Poster/Demo	15%	
Individual contrib.	20%		Members of the group

- **Equal weight for the two**
The grade components given by the Academic Coordinator include the input from the Technical Coordinator.



Important Dates

EVENT	DEADLINE
PROJECT SELECTION	Sept. 19, 2011
PHASE 1 REPORT DUE	Oct. 14, 2011
PHASE 1 PRESENTATION	Week of Oct. 17
PHASE 2 RPORT DUE	Jan. 13, 2012
PHASE 2 PRESENTATION	Week of Jan. 16
FINAL REPORT SUBMISSION	Mid-March, 2012
FINAL PRESENATTION	End-March, 2012



Final remark

- Selecting a group leader
- Signing the memo for the agreement of the course
- ELEC/COEN 490: a MUST for graduation
- Chance to win a best ELEC/COEN 490 award internal and/or external



Contact Information

- Capstone web-page

<http://www.ece.concordia.ca/currentstudents/undergraduatestudents/capstone/index.php>

- Who to contact

- ◆ **Connie Cianciarelli**: General questions, scheduling
- ◆ **Chunyan Wang**: Academic inquiries
- ◆ **Dmitry Rozhdestvenskiy**: Resources, technical aspects
- ◆ **Supervisor**: Project in different phases

- Email

Check your email very frequently. Your email address in myconcordia should be correct.

