ELEC 592 – Career Development

(Master of Engineering in Telecommunications and Information Security Program)

Term – Fall 2016 (201609)

Instructor   **Office Hours**: https://learninginmotion.uvic.ca/home.htm (Appointments/Career)
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Instructor   **Office Hours: by email Appointment**
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Course Objectives

Students will learn how to:

- Apply career management to leverage their engineering education into career success upon graduation.

- Strategize for future career success by learning how to set realistic goals and plan/undertake the required professional development in order to attain those goals.

- Gain an awareness of the labour market conditions (both locally and internationally) in order to successfully contribute to the telecommunications/information security field.

- Apply the fundamentals of project management including risk management, time management.

Learning Outcomes

Students will be able to:

- Understand the importance of labour market awareness in strategizing for career success (domestic & international) in today's global market.

- Analyze sector, industry, and occupational information for the purpose of planning for future professional development.

- Strategize a successful transition from their academic achievements into an Engineer-In-Training (EIT) role and ultimately their Professional Engineer (PEng) career.

- Utilize their professional association (e.g., APEGBC in British Columbia) to build a professional network, a professional reputation, and plan ongoing professional development.

- Communicate professionally and effectively via verbal presentations and written technical reports.

Syllabus

Business Communications, Career Management, Conflict Resolution, Critical Thinking, Engineering Laws, Entrepreneurship, Ethics in Action, Lifelong Learning, Marketing and Sales, Professional Communications, Professional Development

A-Section(s): A01 / CRN 11297
Days: Wednesdays
Time: 14:30-15:20
Location: ECS-130

Required/Optional Readings/Text/References:
A number of academic papers, articles, books, and web resources will be read to inform your contribution to the weekly discussions on the topics in this course – these will be provided through CourseSpaces or in class.

Assessment:

Reflective Questions (Individual 10 X 2%)	20%	Due: Weekly
One-minute Talks X 3 (Individual 3 X 5%)	15%	Date: Every 4 weeks
Group Presentation (Teams of two)	25%	Date: December 2, 2016
ePortfolio (Individual)	15%	Due: December 5, 2016
Final Technical Report (Individual)	25%	Due: December 5, 2016

Reflective Questions:
Reflecting on your experiences takes time, but from a learning perspective, it can help you think about where you've have been and where you want to go. Reflection can help you assess situations, make better decisions, and gain a deeper understanding of the consequences of your actions. The **weekly reflective questions** will ask you to reflect on the learning you have experienced and explain briefly how you will integrate this into your existing knowledge base. Questions will be posted on http://coursespaces.uvic.ca and answers will be submitted online.

One-minute 'Elevator Pitch':
Each member of the class is to give 3 One-minute Talks; one per every 4 weeks.
Four members give talks at the beginning of the class per week; same group per every 4 weeks.
Subject 1: Introduce yourself.
Subject 2: Your view on ethics and professionalism.
Subject 3: Your career plan.

Group Presentation:
Groups of two to give a 20-minute PowerPoint Team presentation on a topic related to telecommunications and/or information security industries, opportunities, and career prospects.

ePortfolio:
While a resume or CV articulates your knowledge and experience for a particular job, an ePortfolio presents examples of your work and achievements which can be housed on your website or on ePortfolio sites. With the move to online professional networking (LinkedIn) and the trend towards cloud-based networks, having an ePortfolio has become an important complementary piece of a successful career for engineers. This assignment requires that you choose a suitable platform and build an ePortfolio that will help promote your competencies

to potential employers. Guidance will be provided, and samples and resources will be posted on http://coursespaces.uvic.ca.

Final Technical Report:
A properly formatted report on a <u>hot technical topic</u> of your choice related to <u>telecommunications and/or information security</u>.

Note: **Failure to complete all course requirements will result in a grade of N being awarded for the course. The second half of ELEC 592 will be offered in the Summer 2017. The final grade for ELEC 592 is the average of your Fall grade and Summer grade.**

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 Graduate Calendar.

http://web.uvic.ca/calendar2016-09/grad/academic-regulations/grading.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/calendar2016-09/general/policies.html

Policy on Inclusivity and Diversity
http://web.uvic.ca/calendar2016-09/general/policies.html

Standards of Professional Behaviour

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

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult the entry in the current Graduate Calendar for the UVic policy on academic integrity.

http://web.uvic.ca/calendar2016-09/undergrad/info/regulations/academic-integrity.html

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.