

**School of Engineering
University of Guelph**

ENGG*4050 – Quality Control

Course Description & Outline – Winter 2013

CALENDER DESCRIPTION

The basic techniques and regulations surrounding quality control in a generic manufacturing environment are covered. The topics covered include the statistics of sampling, sampling rates and measurements. Destructive and non destructive methodologies of product examination are discussed. The student is exposed to relevant ISO and related regulations, and through case studies is given the opportunity to see how these regulations are implemented in local industries.

PREREQUISITES

STAT 2120 – Introductory Probability and Statistics

INSTRUCTOR

Prof. Soha Eid Moussa

Room 1341, Thornborough Building

E-Mail: smoussa@uoguelph.ca

Office Hours: Open Door Policy

TEACHING ASSISTANT

Farhad Shafigh

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CLASS TIME & LOCATION

Lecture MWF 13:30-14:20 (1:30 – 2:20 pm) ROZH 105

TEXT BOOK

Montgomery, Douglas C, Introduction to Statistical Quality Control, Seventh Edition, Wiley, 2013.

COURSE OBJECTIVES

The main goal of this course is teach you total quality management, the use of process control charts, acceptance sampling and process capability.

METHOD OF EVALUATION

Mid-term Examination 1	25%
Mid-term Examination 2	25%
Final Examination	50%

Disclaimer: *The instructor reserves the right to change any or all of the above in the event of appropriate circumstances, subject to University of Guelph Academic Regulations*

MID-TERM and FINAL EXAMINATION

MID-TERM 1	Date:	February 1, 2013
	Time:	15:30 – 16:30 (3:30 – 4:30 pm)
	Location:	ROZH 105
MID-TERM 2	Date:	March 15, 2013
	Time:	15:30 – 16:30 (3:30 – 4:30 pm)
	Location:	ROZH 105
FINAL	Date:	April 10, 2013
	Time:	14:30 – 16:30 (2:30 - 4:30 pm)
	Location:	TBA

Disclaimer: *The instructor reserves the right to change any of the above mid-term dates in the event of appropriate circumstances, subject to University of Guelph Academic Regulations*

COMMUNICATION

All communication for the course will be done through the Courselink website. This includes the distribution of weekly assignments and lecture notes. Courselink can be found at: <http://courselink.uoguelph.ca>

All students are expected to consult with the course site regularly and will be responsible for the material posted on this site.

COURSE ORGANIZATION

The proposed schedule of topics is shown below.

- Total Quality Management
- Statistical Process Control
- Acceptance Sampling
- Process Capability

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

Academic misconduct, such as plagiarism, is a serious offence at the University of Guelph. Please consult the current undergraduate calendar and School of Engineering programs guide, for offences, penalties and procedures relating to academic misconduct.

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>