

Camosun College

Department of Chemistry and Geoscience

Chemistry 290 Spring/Summer 2005

Laboratory Internship

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Introduction This course involves the completion of at least 300 hours of supervised laboratory work at an external laboratory. Each student has a separate project and laboratory supervisor. and all the projects are coordinated by the Camosun instructor assigned to the course.

Assessment: The final grades for the course will be assigned on the basis of the following:

- A satisfactory report from the laboratory supervisor that the student has achieved the performance level described in the learning outcomes
- A written report of the work done (approximately 3000 words in length)

Grades:

DST Course has been completed with distinction

S Satisfactory acquisition of defined skills

U Unsatisfactory acquisition of defined skills

Course content

As each project is unique, the overall content will vary from one project to another. However, the level of difficulty in each case will be sufficient to allow students to demonstrate their ability to fulfill the learning outcomes. As an external reference, all projects are assessed as suitable for a second year coop student in chemistry, biochemistry or microbiology.

COURSE DESCRIPTION (continued)

Learning outcomes

- Students successful in this course will possess expertise and proficiency in common laboratory techniques currently utilized to in a chemistry laboratory, or a biotechnology laboratory.
- Students will be able to critically analyze experimental results generated from their work experience.
- Students will have the ability to evaluate experimental design, and design control experiments related to the focus of their work experience.
- Students will be able to comparatively evaluate experimental techniques related to the focus of their work experience.
- Students will be experienced in the preparation, handling and storage of various types of reagents and solutions involved in their work experience.
- Students will have the skills required to properly maintain a laboratory notebook as a verifiable record of experimental work.
- Students will be able to work with an awareness of the basic safety considerations and proper methods of working associated with a chemistry and/or biotechnology laboratory.