UNIVERSITY COLLEGE of the FRASER VALLEY

COURSE IMPLEMENTATION DATE: September 1999
COURSE REVISED IMPLEMENTATION DATE: September 2006
COURSE TO BE REVIEWED: December 2009
(Four years after UPAC final approval date) (MONTH YEAR)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT: Faculty of Science, Health & Human Services/Physics/Engineering

ENGR 122	PHYSICS 122	1
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS

Introduction to Engineering
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

This course exposes students to a wide range of engineering practices, with a view to helping them identify their specific interests. The course meets once a week for between one and four hours. Some weeks there will be an engineer on campus to give a presentation of their work. Other weeks the students will visit a site where engineering skills are being applied.

PREREQUISITES:
COREQUISITES: Physics 111 as a pre- or co-requisite

SYNONYMOUS COURSE(S)
(a) Replaces: PHYS 122 *(Course #)*
(b) Cannot take: PHYS 122 *(Course #)* for further credit.

SERVICE COURSE TO:
Engineering Transfer Program *(Department/Program)*
(Department/Program)

TOTAL HOURS PER TERM: **30**
STRUCTURE OF HOURS:

Lectures:	**6**	Hrs
Seminar:		Hrs
Laboratory:		Hrs
Field Experience:	**24**	Hrs
Student Directed Learning:		Hrs
Other (Specify):		Hrs

TRAINING DAY-BASED INSTRUCTION
LENGTH OF COURSE:
HOURS PER DAY:

MAXIMUM ENROLLMENT: 36
EXPECTED FREQUENCY OF COURSE OFFERINGS: Yearly or twice per year

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☐ Yes	☐ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☐ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☒ Yes	☐ No

AUTHORIZATION SIGNATURES:

Course Designer(s): N. Taylor; revised P. Mulhern
Chairperson: Gillian Mimmack *(Curriculum Committee)*
Department Head: Norm Taylor
Dean: Jackie Snodgrass
UPAC Approval in Principle Date:
UPAC Final Approval Date: December 14, 2005

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Most beginning engineering students do not have a complete awareness of the variety of types of engineering. Upon completion of this course, the student will be able to make an informed choice of areas of specialization.

METHODS:

The course will consist of talks by a variety of professional engineers and university faculty members. Many of the classes will be field trips to local engineering firms and work sites. The student will be exposed to the widest possible selection of engineering fields.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check :) ☒ Yes ☐ No

METHODS OF OBTAINING PLAR:

Departmental Review and/or Course Challenge

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]
No textbooks are required.

SUPPLIES / MATERIALS:

Note book.
Students are also required to get to the work sites either by their own transportation or by car-pooling.

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

There will be no examinations for this course.
Students will be evaluated on a combination of attendance and a log book kept of visits and speakers.

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

The course will consist of talks by a variety of professional engineers and university faculty members. Many of the classes will be field trips to local engineering firms and work sites. The student will be exposed to the widest possible selection of engineering fields.

Recently we have had visits from UBC and UVic Engineering faculty, UBC Wood Products Processing. Helton Industries, Landmark Truss, CREO Scitec, International Submarine Engineering, Moli Energy, BC Hydro, Vortek Industries, Levelton Engineering, and a representative from APEG. In other years we have had Abbotsford and Chilliwack municipal works, Fraser Valley Fish Hatching, Canadian Airlines, B.C. environment ministry, M.P.K. engineering, Scott Paper, Ebco Aerospace, Xantrex technology, Chevron Oil Refinery and Queenship Yatchworks.