



WIST Capstone Project – WIST 290 Wireless Systems Technical Program

Course Outline

COURSE IMPLEMENTATION DATE: September 2022
OUTLINE EFFECTIVE DATE: September 2022
COURSE OUTLINE REVIEW DATE: March 2027

GENERAL COURSE DESCRIPTION:

This course enables students to apply wireless systems knowledge and skills to identify and research an industry problem, and plan, implement and test a field-based, real-world solution. The project will involve designing, building and testing their solution. Students present and demonstrate their project results, and prepare a final project report. The course integrates knowledge and skills gained from other courses in the program, and builds skills in problem solving, research, project planning and time management, and industry relevant presentation and writing skills.

Program Information: This course is required for successful completion of the Wireless Systems Technician Diploma program.

Delivery: This course is delivered face to face.

COTR Credits: 6

Hours for this course: 180 hours

Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	30
Seminars / Tutorials	
Laboratory / Studio Hours	
Practicum / Field Experience	150
Other Contact Hours	
Total	180

Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-Job Experience	
Formal Work Experience	
Other	
Total	N/A

Course Outline Author or Contact:

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Signature

APPROVAL SIGNATURES:

Department Head

Joy Brown

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Dean of Trades and Technology

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Department Head Signature

Dean Signature

EDCO

Valid from: September 2022 – March 2027

Education Council Approval Date

COURSE PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: Successful completion of WIST 201-WIST 206 courses of the Wireless Systems Technician program

Corequisites: N/A

Flexible Assessment (FA):

Credit can be awarded for this course through FA Yes No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

Transfer Credit: For transfer information within British Columbia, Alberta and other institutions, please visit <http://www.cotr.bc.ca/Transfer>.

Student should also contact an academic advisor at the institution where they want transfer credit.

Prior Course Number: N/A

Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

No textbook is assigned for this course.

Please see the instructor's syllabus or check COTR's online text calculator <http://go.cotr.bc.ca/tuition/tCalc.asp> for a complete list of the currently required textbooks.

LEARNING OUTCOMES:

Upon the successful completion of this course, students will be able to

- use needs assessment, appreciative inquiry and other strategies to identify and clarify a problem in wireless systems industry;
 - research the problem and potential solutions applying knowledge and skills;
 - conduct a literature search and review;
 - write an effective proposal and project plan to address the problem;
 - conduct the project applying effective time management skills;
 - evaluate the effectiveness of the project;
 - present and demonstrate the project using effective oral communication skills; and
 - write a final project report describing the project methodology and discussing the effectiveness of the solution and opportunities for further development or application.
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COURSE TOPICS:

- Problem clarifying strategies related to research
- Proposal writing
- Project planning and time management
- Research skills/literature review
- Presentation skills
- Report writing

See instructor's syllabus for the detailed outline of weekly readings, activities and assignments.

EVALUATION AND ASSESSMENT:

Assignments	% of Total Grade
Project proposal	20%
Oral presentation	20%
Technical evaluation	40%
Final report	<u>20%</u>
	100%

Please see the instructor's syllabus for specific classroom policies related to this course, such as details of evaluation, penalties for late assignments and use of electronic aids.

EXAM POLICY:

Students must attend all required scheduled exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the scheduled exam.

Any student who misses a scheduled exam without approval will be given a grade of "0" for the exam.

COURSE GRADE:

Course grades are assigned as follows:

Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F
Mark (Percent)	≥ 90	89-85	84-80	79-76	75-72	71-68	67-64	63-60	59-55	54-50	< 50

A grade of "D" grants credit, but may not be sufficient as a prerequisite for sequential courses.

ACADEMIC POLICIES:

See www.cotr.bc.ca/policies for general college policies related to course activities, including grade appeals, cheating and plagiarism.

COURSE CHANGES:

Information contained in course outlines is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment and marketing needs. The instructor endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add or delete material from courses.