



DRFT 2265: Diploma Process and Utility Piping Layout

EFFECTIVE DATE

September 2021

DEPARTMENT

Drafting

DESCRIPTION

This course is designed to teach students to route process and utility piping safely in an industrial project and allow access to all components for maintenance and replacement..

CREDITS

1.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

DRFT 2100 Integrated BIM Project

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Prepare a set of piping plans, sections, and elevations.
- Design the piping layout to optimize fluid flow and pipe support.
- Properly space the piping components in the layouts.
- Apply industrial clearance standards to allow for maintenance and replacement of piping system.
- Co-ordinate clearances between the piping and other engineering disciplines.
- Create the blocks required to complete the drawings.
- Discuss safety in the workplace and the need to ensure the safety of the workers within the context of piping layout.
- Apply the concepts and processes at a higher level, in a 3D Building Information Modeling setting.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 10

Lab: 20

INSTRUCTIONAL STRATEGIES

Lectures, video presentations, project-/problem-based learning, lab activities. The course may be offered face-to-face or in a blended format (mix of face-to-face and online)

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

D

EVALUATION PLAN

Type	Percentage	Assessment activity
Project	60	Minimum of 3 project-based major assignments of approximately equal value.
Quizzes/Tests	10	
Final Exam	30	

COURSE TOPICS

- Terminology , abbreviations, & symbols within the piping layout specialty
- Piping Plans, Sections, and Elevations
- Piping Routing Fundamentals
- Piping Supports and Racking
- Pump Suction Requirements

- Engineering Discipline Co-ordination
- Workplace safety

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

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Downtown campus

250 West Pender Street
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