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DRFT 2264: Diploma Plant and Equipment Layout

EFFECTIVE DATE

September 2021

DEPARTMENT

Drafting

DESCRIPTION

This course is designed to teach students to lay out equipment in an industrial building and produce plans, sections and elevations. They will learn what is needed to ensure the equipment is laid out to promote optimal flow of material and access for maintenance and replacement.

CREDITS

2.0

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 mechanical plans, sections, and elevations
- Design the equipment layout to optimize material process flow
- Properly size the structural components in the layouts
- Apply industrial clearance standards to allow for maintenance and replacement of equipment
- Create the blocks required to complete the drawings
- Analyze the building layout to ensure each discipline has the required room to run their components
- Discuss safety in the workplace and the need to ensure the safety of the workers
- Apply the concepts and processes at a higher level, in a 3D Building Information Modeling setting

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 20

Lab: 40

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 plant equipment application
- Mechanical Orthographic Drawing Fundamentals
- Equipment Spacing Requirements
- Preliminary Structural Steel Sizes
- Optimization of process material flow
- Maintenance Clearances
- Locating Pipe Racks
- 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

1155 East Broadway
Vancouver, B.C. Canada
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Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
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Annacis Island campus

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