

# CAD TECHNICIAN SHORT CERTIFICATE

## Purpose

Graduates of this program will have developed the drafting skills that will enable them to enter the workforce as team members in building and developer firms, architectural firms, municipal, provincial or federal offices, as well as in private industry. Graduates will work on a wide variety of new home design and construction, home renovations, and real estate development work.

## Duration

Fourteen (14) weeks.

## Learning Outcomes

Upon successful completion of this program, graduates will be able to:

1. Use drawing techniques to complete projects in orthographic projection, sectioning, and dimensioning, auxiliary view and machine detailing.
2. Describe concepts in orthographic projection, sectioning, and dimensioning, auxiliary view and machine detailing.
3. Employ Computer Aided Drafting (CAD) skills to produce drawings from data, designs and/or specifications.
4. Develop drafting and related trade knowledge.
5. Demonstrate an understanding of drafting skills and conventions.
6. Prepare a comprehensive professional portfolio.
7. Use concepts of residential building construction and technology to plan and detail a residential building in accordance with local bylaws and the BC Building Code.

## Admission Requirements

- Grade 12 graduation or equivalent.
- English Language Proficiency (<https://www.vcc.ca/applying/registration-services/english-language-proficiency-requirements/>) at a grade 12 level
- Knowledge of mathematics demonstrated by *one* of the following:
  - Workplace Math 11 or equivalent, *or*
  - VCC Math Assessment with 80% Basic Arithmetic and 60% Basic Algebra

Note:

- Applicants who do not meet the English language requirement may be admitted at the discretion of the Department
- Applicants who have met all the above requirements and have completed high school Drafting 11 and 12 may, with Departmental approval, apply for direct entry into Level 2 of the program.

For assistance with meeting the entrance requirements, please contact Advising Services to schedule an appointment with an Advisor.

VCC CAD & BIM Technologies Department Technician Certificate students who have successfully completed Level 1 may insert into level 2 of the Citation program.

## Program Requirements

Term One		Credits
DRFT 1010	CAD Drafting Fundamentals	4
DRFT 1011	CAD Drafting Applied	3
DRFT 1012	Office & Construct Site Safety	1
DRFT 1013	Construction Mathematics	1
DRFT 1255	Residential Plans and Framing	4.5
DRFT 1326	Job Search Skills	0.5
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>14</b>

This guide is intended as a general guideline only. The college reserves the right to make changes as appropriate.

## Evaluation of Student Learning

Students are evaluated after each course in the program. An evaluation of the learning outcomes of each student is prepared by the instructor. Students are evaluated by theory examination and assessment of practical projects.

## Prior Learning Assessment and Recognition (PLAR)

PLAR is available for select courses. See individual Course Outlines for details.

## Transcript of Achievement

The evaluation of learning outcomes for each student is prepared by the instructor and reported to the Student Records Department at the completion of semesters.

The transcript typically shows a letter grade for each course. The grade point equivalent for a course is obtained from letter grades as follows:

## Grading Standard

Grade	Percentage	Description	Grade Point Equivalency
A+	96-100		4.33
A	91-95		4.00
A-	86-90		3.67
B+	81-85		3.33
B	76-80		3.00
B-	71-75		2.67
C+	66-70		2.33
C	61-65		2.00
C-	56-60		1.67
D	50-55	Minimum Pass	1.00
F	0-49	Failing Grade	0.00
S		Satisfactory – student has met and mastered a clearly defined body of skills and performances to required standards	N/A

U	Unsatisfactory – student has not met and mastered a clearly defined body of skills and performances to required standards	N/A
I	Incomplete	N/A
IP	Course in Progress	N/A
W	Withdrawal	N/A
<b>Course Standings</b>		
R	Audit. No Credit	N/A
EX	Exempt. Credit Granted	N/A
TC	Transfer Credit	N/A

## Grade Point Average (GPA)

1. The course grade points shall be calculated as the product of the course credit value and the grade value.
2. The GPA shall be calculated by dividing the total number of achieved course grade points by the total number of assigned course credit values. This cumulative GPA shall be determined and stated on the Transcript at the end of each Program level or semester.
3. Grades shall be assigned to repeated courses in the same manner as courses taken only once. For the purpose of GPA calculation of grades for repeated courses, they will be included in the calculation of the cumulative GPA.