

COMPUTER-AIDED DESIGN & DRAFTING: INDUSTRIAL (CADI)

Registration in some course sections is restricted to students in particular programs. See Timetables - [kpu.ca/registration/timetables](http://www.kpu.ca/registration/timetables) (<http://www.kpu.ca/registration/timetables/>) - for current section information.

Visit the BC Transfer Guide - [bctransferguide.ca](https://www.bctransferguide.ca) (<https://www.bctransferguide.ca/>) - for information about course transfer in B.C.

CADI 1200 3 credits **Industrial Applications**

Students will identify industrial processes and codes and standards. They will describe industrial design development, identify information from external resources, and describe types of drawings. Students will prepare a flow chart and a general arrangement, and identify materials handling equipment and components. They will identify piping equipment and components, and participate in industrial field trips.

Level: UG

Prerequisite(s): 16 credits from courses in CADD at the 1100 level

Attribute: SCIH (<https://calendar.kpu.ca/courses-az/#courseattributestext>)

CADI 1210 4 credits **Conveyor Systems**

Students will identify types of transfer decks, apply design criteria, and identify design principles to prepare a transfer deck. They will identify types of conveyors, draw and detail a belt conveyor, and prepare chute details. Students will apply appropriate drafting practice.

Level: UG

Prerequisite(s): 16 credits from courses in CADD at the 1100 level

Attribute: SCIH (<https://calendar.kpu.ca/courses-az/#courseattributestext>)

CADI 1220 4 credits **Process Piping**

Students will prepare piping and instrumentation diagrams, lay out a general arrangement, and prepare details of piping equipment. They will develop pipe routing and follow design principles to output piping orthographics and isometrics. Students will produce isometric spool drawings and apply appropriate drafting practice.

Level: UG

Prerequisite(s): 16 credits from courses in CADD at the 1100 level

Attribute: SCIH (<https://calendar.kpu.ca/courses-az/#courseattributestext>)

CADI 1250 4 credits

Introduction to Industrial 3-Dimensional Modeling Software

Students will identify 3-dimensional (3D) software for industrial and mechanical applications. They will use 3D parametric modeling software to make effective sketches, model parts and generate 2-dimensional (2D) drawings. Students will create assembly files, presentation drawings and assembly drawings. They will use process piping software to place components into a piping model, create orthographic piping working drawings, and to automatically generate piping isometric drawings with a bill of materials. Students will use piping and instrumentation diagram (P&ID) software to create piping schematics.

Level: UG

Prerequisite(s): 16 credits from courses in CADD at the 1100 level

Attribute: SCIH (<https://calendar.kpu.ca/courses-az/#courseattributestext>)

CADI 1900 4 credits **Special Topics - Industrial**

Students will engage in an intensive study of a special topic in Industrial design and drafting and/or related technology as selected by the instructor. They will receive instruction in and perform research in the topic. They will analyze and demonstrate the theory and application of the selected topic.

Level: UG

Prerequisite(s): 16 credits from courses in CADD at the 1100 level or higher

Attribute: SCIH (<https://calendar.kpu.ca/courses-az/#courseattributestext>)