

1. Introduction

The course planning website is a platform designed to assist University of Calgary students and IT administrators in efficiently managing academic courses and related information. This manual provides detailed instructions for using the system's features, ensuring a seamless experience for all users.

2. User Roles and Access

Students

- Register and log in with their UCID.
- Access information about available courses, previously taken courses, and degree requirements.

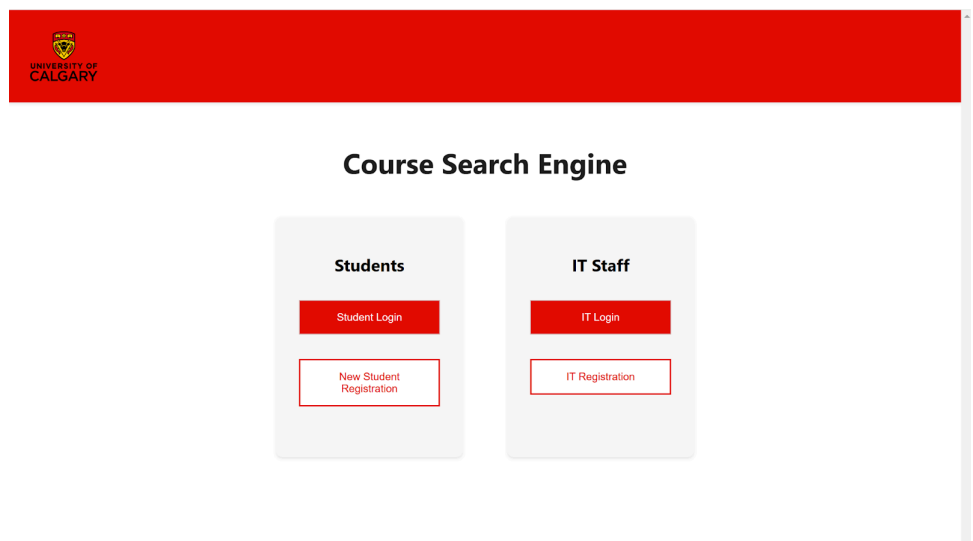
IT Administrators

- Register and log in with their credentials.
- Manage the course database, including adding, modifying, and deleting courses, lectures, and tutorials.

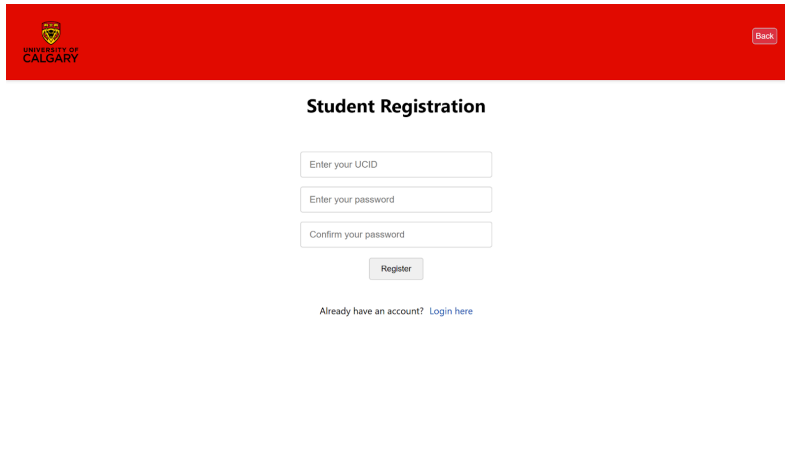
Note that both students and IT administrators must have their information (UCID) already in the database to create an account.

3. Getting Started

Registering an Account



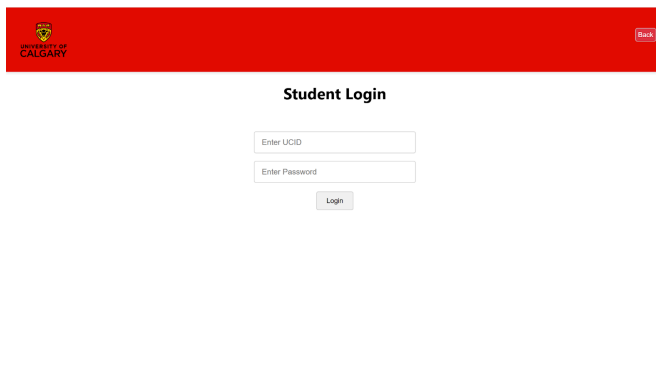
1. Select your role (Student or IT), and click the corresponding Registration button.
2. Fill out the registration form:
 - Enter your UCID and password.
 - Confirm password.
3. Click Register.



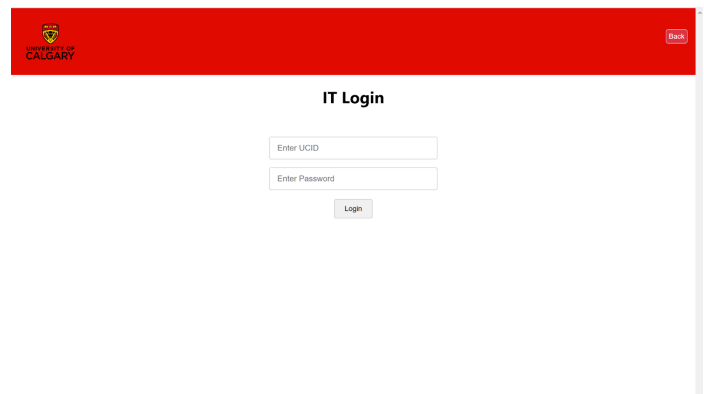
The screenshot shows the 'Student Registration' form. At the top is a red header with the University of Calgary logo on the left and a 'Back' button on the right. The form title 'Student Registration' is centered. Below it are three input fields: 'Enter your UCID', 'Enter your password', and 'Confirm your password'. A 'Register' button is positioned below these fields. At the bottom of the form, there is a link: 'Already have an account? [Login here](#)'.

Logging In

1. On the homepage, click Login (either as Student or IT).
2. Enter your UCID and password.
3. Click Login to access your dashboard.



The screenshot shows the 'Student Login' form. It has a red header with the University of Calgary logo and a 'Back' button. The title 'Student Login' is centered. There are two input fields: 'Enter UCID' and 'Enter Password'. A 'Login' button is located below the password field.

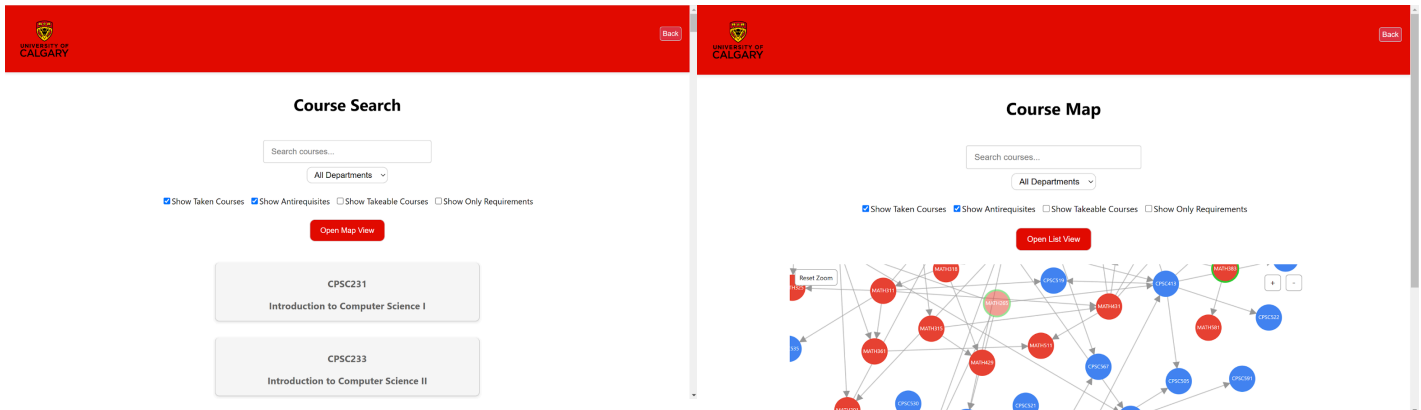


The screenshot shows the 'IT Login' form. It has a red header with the University of Calgary logo and a 'Back' button. The title 'IT Login' is centered. There are two input fields: 'Enter UCID' and 'Enter Password'. A 'Login' button is located below the password field.

4. Student User Guide

Course Search (View Available Courses)

1. Login and click the Course Search button on the dashboard.
 - The dashboard has a list of courses, where students can choose between list view and a map view.

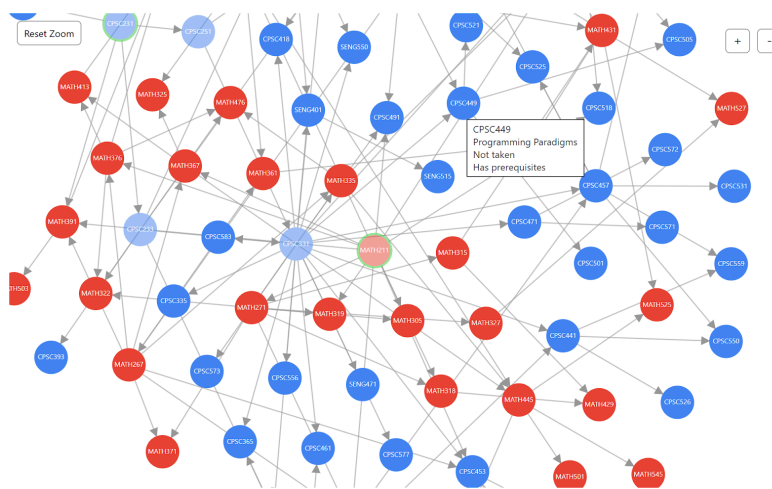


2. In both list view and map view, students can filter the courses by:
 - Text search (search a course by course ID or course name).
 - Taken courses.
 - Antirequisites.
 - Takeable courses (the courses that the student has the prerequisites).
 - Only requirements (the degree requirements of the student).
 - i. Students can select the department they want as well.
 1. Doing so will filter the courses by department.
3. For list view, each course will show:
 - CourseID.
 - Course name.
 - i. Clicking on the course ID leads to the course information page.



4. For map view, the page will show:

- A directed graph of all courses, where the relationship is prerequisite to prerequisite of:
 - i. A course points to the courses that it is a prerequisite of.
 - ii. Each course is color coded by department.
 - 1. Courses of the student that have been taken are greyed out.
 - iii. Courses that have a green outline are ones that don't have any prerequisites yet/at all.
- Hovering over the course (vertex) will show the course name with course ID.
 - i. It will also show if there are prerequisites for that class.
 - ii. Clicking on it will take them to the course information page.



5. The course information page shows the course ID, course name, level, description, credits, and department, along with lectures and tutorials (by semester).

- This page also has an add/remove button, where the students can:
 - i. Remove a course if they already have it or
 - ii. Add a course if they don't.
- Adding/removing will redirect you to the list of taken courses

CPSC449

Programming Paradigms

Level: 400

Examination of the basic principles of the major programming language paradigms. Focus on declarative paradigms such as functional and logic programming. Data types, control expressions, loops, types of references, lazy evaluation, different interpretation principles, information hiding.

Credits: 3

CPSC Department

Prerequisites:

CPSC331 - Data Structures, Algorithms, and Their Analysis
CPSC351 - Theoretical Foundations of Computer Science II

[Go to Taken Courses](#)[Add to My Courses](#)[Go to Course Search](#)

My Courses (View past courses)

1. Click the My Courses button on the dashboard.
2. This page lists all courses the student has previously taken, including:
 - Course name and ID.
 - Level.
 - Description.
 - Credits.
 - Department.
 - Prereq/Antireq information.
 - i. The courses will link to the course information of that prerequisite/antirequisite.

List of Courses Taken

Course:	Course:	Course:
CPSC231	CPSC233	CPSC251
Name: Introduction to Computer Science I	Name: Introduction to Computer Science II	Name: Theoretical Foundations of Computer Science I
Level: 200	Level: 200	Level: 200
Description: Introduction to problem solving, the analysis and design of small-scale computational systems, and implementation using a procedural programming language.	Description: Continuation of Introduction to Computer Science I. Emphasis on object-oriented analysis and design of small-scale computational systems and implementation using an object-oriented language. Issues of design, modularization, and programming style will be emphasized.	Description: Proof techniques, Recursion and iteration, Specification of algorithmic problems and fundamental proof techniques in Computer Science. Discrete structures such as graphs, trees, strings, functions, and their computer representation. Counting, permutations. Random events. Conditional events. Applications in Computer Science.
Credits: 3	Credits: 3	Credits: 3
Department: CPS		

Department: CPSC

Prerequisite to:

- CPSC233
- CPSC251
- CPSC365
- MATH391

Antirequisite of: None

Credits: 3

Department: CPSC

Prerequisite to:

- CPSC331
- CPSC351
- CPSC355
- CPSC393
- SENG300

Antirequisite of: None

Credits: 3

Department: CPSC

Prerequisite to:

- CPSC331
- CPSC351

Antirequisite of: None

View Degree (Major/Minor) Requirements

1. Click the My Degree button.
2. Click on the View My Major/View My Minor button, depending on which one the student wants to view.
3. The page lists the Majors/Minors that the student is in.

Major List

Computer Science 50% Complete

Required Courses:

- CPSC231 - Introduction to Computer Science I ✓
- CPSC233 - Introduction to Computer Science II ✓
- CPSC251 - Theoretical Foundations of Computer Science I ✓
- CPSC331 - Data Structures, Algorithms, and Their Analysis ✓
- CPSC351 - Theoretical Foundations of Computer Science II O
- CPSC355 - Computing Machinery I O
- CPSC413 - Design and Analysis of Algorithms I O
- CPSC449 - Programming Paradigms O
- CPSC457 - Principles of Operating Systems O
- MATH211 - Linear Methods I ✓
- MATH265 - University Calculus I ✓
- SENG300 - Introduction to Software Engineering O

Back to My Degree

- There is an Add button and an “x” button for each major/minor that allows
- students to add or remove their majors and/or minors if necessary.
 - i. For adding major/minor, they will be redirected to a page where they can add the major/minor they want.

- There is a percentage that shows how far a student is from completing the required courses (for their major/minor requirements).
 - As well as the required courses for the student’s major/minor, and whether or not the student has taken it.
 - i. Each course links to its own information page
4. To go back to viewing major/viewing minor, click on the Back To My Degree button.
 5. To go back to the dashboard, click the Back button.

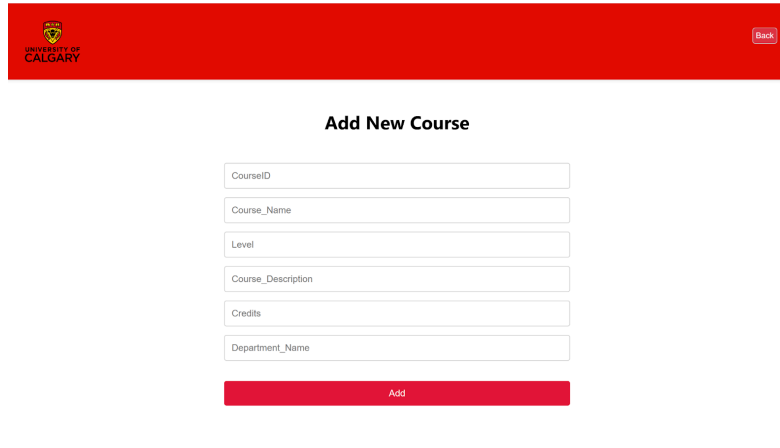
5. IT Administrator User Guide

Manage Courses

1. Once IT administrators are logged in, they will be directed to the dashboard, where they will be able to see the list of courses in the database.
 - They can filter the courses by:
 - i. Text search (specify the course ID or course name).
 - ii. Department.

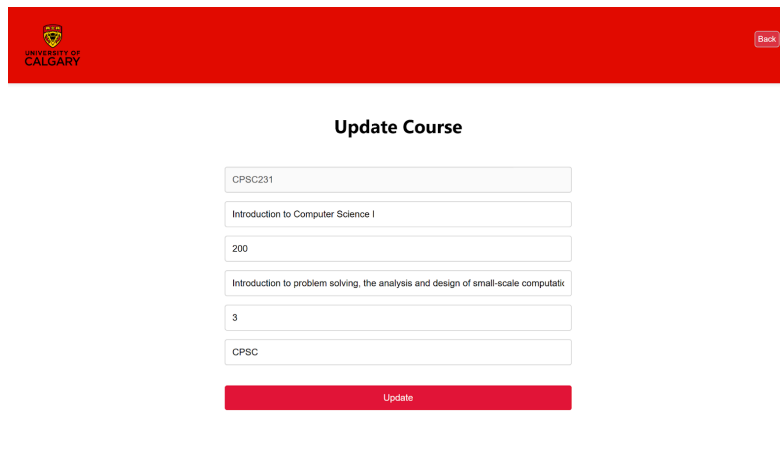
2. On the course list page (dashboard):

- Add a Course: Click the Add New Course button, fill in the form (by specifying CourseID (must be character of length 7), Course Name (varchar), Level (Int), Course Description (varchar), Credits (Int), Department Name (varchar - must be already existing in the Department table), and click the Add button.



The screenshot shows a web form titled "Add New Course" within a red header bar that includes the University of Calgary logo and a "Back" button. The form contains seven input fields: "CourseID", "Course_Name", "Level", "Course_Description", "Credits", and "Department_Name". Below these fields is a red "Add" button.

- i. Will be redirected to the dashboard afterwards, and the new course will be in the list.
- Modify a Course: Click the Update button of the course you want to modify, and fill in the relevant information.



The screenshot shows a web form titled "Update Course" within a red header bar that includes the University of Calgary logo and a "Back" button. The form contains six input fields with pre-filled values: "CPSC231", "Introduction to Computer Science I", "200", "Introduction to problem solving, the analysis and design of small-scale computat...", "3", and "CPSC". Below these fields is a red "Update" button.

- i. Will be redirected to the dashboard afterwards.
 - 1. Will not be able to modify CourseID, as it is a unique ID generated for each course.
- Delete a Course: Click the Delete button of the course you want to delete.
 - i. Course list will refresh and the course will no longer be there.

Manage Lectures

1. On the course list page (dashboard), click the Lecture button of the specific course you want.

CPSC231
Introduction to Computer Science I
200 level
Introduction to problem solving, the analysis and design of small-scale computational systems, and implementation using a procedural programming language.
3
CPSC

Delete

Update

Lecture

Tutorial

Manage Prerequisites

Manage Antirequisites

- Will be directed to the Lecture List page of that course.

Lecture List

123
Enrollment Limit: 5
Current Number of Enrollments: 1
Building Name: Science
Room Location: SB103
Semester Name: F24
Days: 2
Start Time: 08:01:00
End Time: 09:00:00

Delete

Update

Add New Lecture

Back To Course List

2. How to manage lectures:

- Add a Lecture: Click the Add New Lecture button, fill in the form (by specifying LectureID (must be character of length 3), Enrollment Limit (Int), Enrollment Current Number (Int), Building Name (varchar), Room Location (varchar), Semester Name (varchar - must be already existing in the Semester table), Days (varchar), Start Time and End Time, and click Add button.

Add Lecture

Lecture ID

Enrollment Limit

Enrollment Current Number

Building Name

Room Location

Semester Name

Days

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Add

- i. Will be redirected to the Lecture List page afterwards, with the new lecture.
- Modify a Lecture: Click the Update button of the lecture you want to modify, and fill in the relevant information.

Update Lecture


123
5
1
Science
SB103
F24
2
08:01 AM
09:00 AM

Update

- i. Will be redirected to the Lecture List page afterwards.
 - 1. Will not be able to modify LectureID, as it identifies each lecture for each course.
- Delete a Lecture: Click the Delete button under the lecture you want to delete.
 - i. The Lecture List page will refresh with the course deleted.
- 3. To go back to the main course dashboard, click on the Back To Course List button.

Manage Tutorials

1. On the course management page (dashboard), click the Tutorial button of the course you want.
 - a. Will be directed to the Tutorial List page of that course.



Tutorial List

1

Course ID: CPSC231
 Semester Name: F24
 Enrollment Limit: 5
 Current Number of Enrollments:1
 Building Name: Science
 Room Location: SB103
 Number of Days: 2
 Start Time: 08:00:00
 End Time: 09:00:00

Delete Update

Add New Tutorial Back To Course List

2. Manage tutorials following the same process as lectures.

Manage Prerequisite/Antirequisite

1. On the course management page (dashboard), click the 'Manage Prerequisites' button under the specific course you want.
 - a. Will be directed to the Prerequisites List page of that course.

UNIVERSITY OF CALGARY

Back to Course List

Prerequisites for Course CPSC231

Current Prerequisites

No prerequisites set

Add New Prerequisites

Search courses... All Departments

CPSC233
Introduction to Computer Science II
Level: 200
Description: Continuation of Introduction to Computer Science I. Emphasis on object-oriented analysis and design of small-scale computational systems and implementation using an object-oriented language. Issues of design, modularization, and programming style will be emphasized.
Credits: 3
Department: CPSC

Add as Prerequisite

2. How to manage prerequisites:
 - a. Add a prerequisite: all courses in the database (other than itself), will be listed on the Prerequisites List page. For each course, there is an 'Add as Prerequisite' button that allows the administrators to add that corresponding course as a prerequisite.
 - i. The course will go into the 'Current Prerequisites' section

UNIVERSITY OF CALGARY

Back to Course List

Prerequisites for Course CPSC231

Current Prerequisites

CPSC251 - Theoretical Foundations of Computer Science I Remove

Add New Prerequisites

Search courses... All Departments

CPSC233
Introduction to Computer Science II
Level: 200
Description: Continuation of Introduction to Computer Science I. Emphasis on object-oriented analysis and design of small-scale computational systems and implementation using an object-oriented language. Issues of design, modularization, and programming style will be emphasized.
Credits: 3
Department: CPSC

Add as Prerequisite

- b. Delete a prerequisite: Click the 'Remove' button next to the prerequisite you want to delete.
 - i. Page will refresh without that course in the current prerequisites.
 3. To go back to the main course dashboard, click on the Back To Course List button.

Note that managing antirequisite works the same.