

# **CS Advisory Planner**

A CS Advisory Planner is proposed to complement, facilitate, and enhance the academic advising process involving students and faculty within the Computer Science program at Metropolitan State University of Denver.

This document provides information intended to support the development of such a product.

Version Fall 2014 – 1.0

## PURPOSE

The purpose of this project is to make a software system that will assist students in keeping track of their required curriculum throughout their attendance at MSU Denver within the Computer Science program. The system will keep track of what prerequisites are needed and what prerequisites are met by each student throughout their attendance in the program. The product will allow advisors to look up student data and quickly assist in the shaping of their schedules. It will enable students to request future classes so that the faculty and staff of the Computer Science department can determine the current demand from students for each class. The software system will also include features to assist faculty in making schedules for future semesters for the Computer Science program.

## SCOPE

The system's user interface will be a website and will be supported by a local web server. The web server will handle requests from the front end, manipulate information stored in the database and send back appropriate information. The system will provide the students or interested parties with information about classes they need in order to complete the Computer Science program as well as prerequisites for those classes. Enrolled students will be able to enter information about their classes as well as enter notes relating to their schedule. They will also be able to retrieve any saved information as well as notes entered by advisors. Advisors have the ability to retrieve student profiles from the system and enter notes relating to the students schedule or future plans. Advisors will also have the ability to generate statistical reports based on data entered by students. System administrators will have all the same abilities that the advisors do. In addition, administrators will have the ability to add or edit information about classes. They will also be able to edit account information and change the account type.

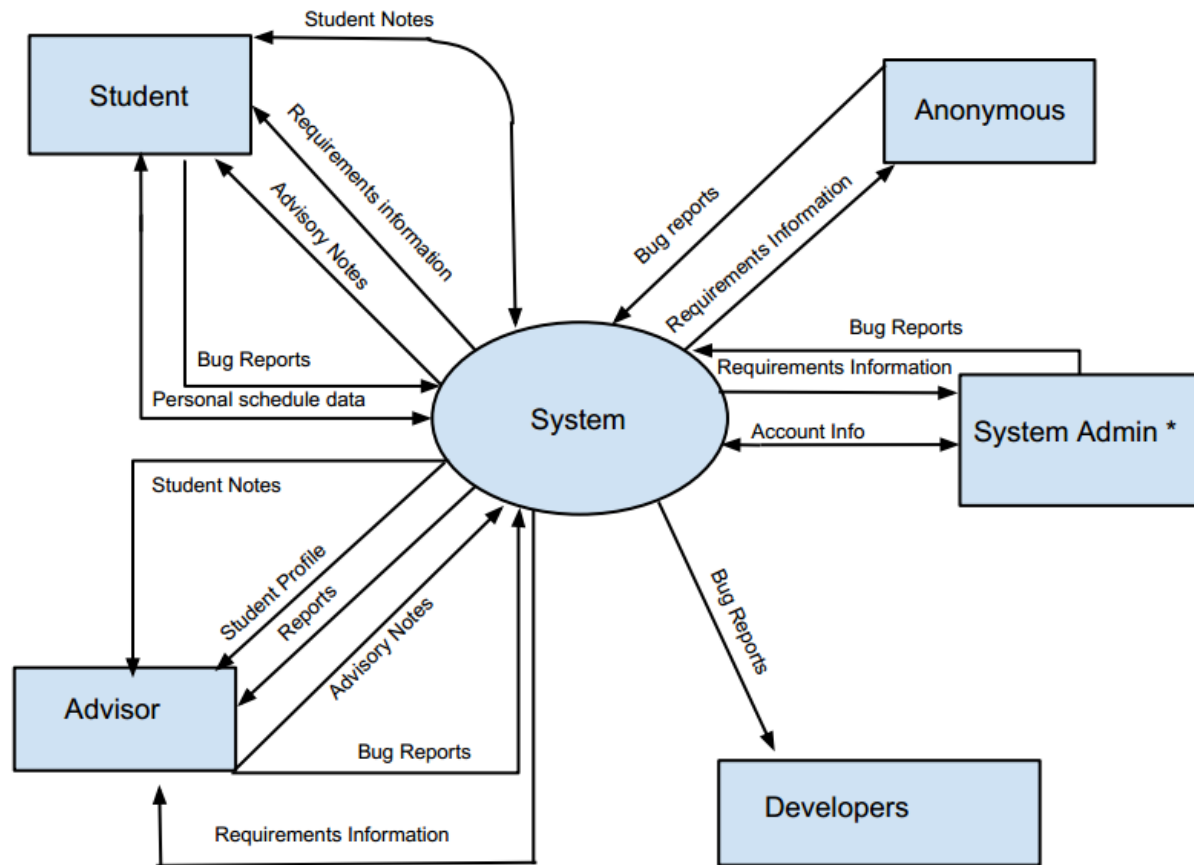
## DEMOGRAPHICS

This product will be used within Metropolitan State University of Denver by students enrolled or interested in the Computer Science program and by faculty of the Math and Computer Science Department.

## ACCESSIBILITY

The product will require the user to be connected to Metro State's network and will require a recent version of a popular internet browser (Firefox 2.0+, Chrome 8+, Safari 3+, Opera 10.6+, or Internet Explorer 6+). By default the product will be very visually dependent and require heavy use of the mouse. However, the product will allow the user to edit how content is displayed and will conform to the Universal Design for learning principles to ensure that it works with screen readers and other software designed to aid people with accessibility issues. Additionally, the product will accommodate people with disabilities to differentiate between colors by including optional symbols for representation where colors are used. For users that struggle with mouse use or are visually impaired, there will be additional versions of the product that allows users to navigate with just the keyboard or eliminate the use of styling to be compatible with additional accessibility software. The user interface will also be designed to be functional for users that do not wish to use JavaScript.

## CONTEXT DIAGRAM



\*System Admin also inherits all information flows associated with Advisor

## DEFINITIONS

### **Account Information**

This includes the amount of access an account has and any other information associated with it.

### **Advisory Notes**

Notes entered by advisors regarding students' scheduling information.

### **Bug Reports**

A reported issue from the user about the system.

### **Developers**

Takes bug reports and diagnoses the issue. They are then responsible for fixing the bug.

### **Personal Schedule Data**

Any information students enter about classes. This includes when they plan to take classes in the future and any data they have entered about classes taken in the past.

### **Reports**

Statistical analysis of data entered in by Computer Science students.

### **Requirements Information**

Classes a Computer Science student needs to complete in order to finish their degree. This will also include what prerequisites are required for each class.

### **Student Notes**


Notes entered by students regarding scheduling information.

### **Student Profile**


This includes advisory information, personal schedule data and any information entered by the student.

## USER STORIES


The following sample user stories were generated based on initial discussions with a key stakeholder. These, and many others, were used as a simple way of communicating ideas and potential requirements with the stakeholder. The color used in the top left corner of each card indicates to which user role it corresponds.




As a student I want to  
know what classes I can take  
next semester  
so that I can request certain  
classes




As any user I want  
the system to be secure  
so that no one else can access  
my information




As a student I want to  
enter which teacher I took for a  
previous class  
so that teachers and I can keep  
track of what teachers I had




As a teacher I want to  
enter notes about advisory  
meetings  
so that I can keep track of plans  
students made in previous  
meetings



As a teacher I want to  
open a student's profile  
so that I can help advise them




As a student I want to  
know what classes are required  
so that I can meet the required  
classes for the major



As a developer I want to  
receive bug reports

so that I can fix the system



As any user I want to be able  
to report a bug

so that the system can get  
fixed



## USER'S GUIDE

The following sample user guide is intended to serve as a means for eliciting, specifying, and validating requirements. The premise is that such anticipatory documentation, driven by and in conjunction with user stories, may prove to be more effective than other forms of software requirements specifications. (See: "User's Manual as a Requirements Specification: Case Studies" by D. M. Berry, et al., 2003, <http://web.vtc.edu/users/cad03090/sad-r/users.man.pdf>, and *The Deadline* by T. DeMarco, Dorset House, 1997)

# *CS Advisory Planner*

## *User's Guide*

### **Introduction**

The CS Advisory Planner (CSAP) is a web-based system designed to facilitate student mentoring and advising at MSU Denver. It is designed to complement the traditional advising process in Computer Science. The CSAP provides services that will assist students in keeping track of their required curriculum throughout their attendance at MSU Denver within the Computer Science program. The system will keep track of what prerequisites are needed and what prerequisites are met by each student throughout their attendance in the program. The website will allow advisors to look up student data and quickly assist in the shaping of their schedules. It will enable students to request future classes so that the faculty and staff of the Computer Science department can determine the current demand from students for each class. Students are recommended to use this program as a general guide, but always check with their Computer Science Academic Advisor at least two weeks prior to the registration date to verify that they are taking the best classes.

### **Getting Started**

This User Guide provides you with needed information and tips for using the CS Advisory Planner (CSAP). The UAS application allows the students to:

- Figure out all classes involved in a CS degree and a suggested schedule
- Plan a CS degree to know when you'll graduate
  - Edit the CS degree plan and review the impacts of a student's planned graduation date
  - Review the CS degree progress and see which classes a student has remaining to complete a degree
- Check the prerequisites for all CS courses
- Report an issue with the system

The students will be able to use the system to review their online advising sessions with their MSU Denver CS advisor.

## System Requirements

The CS Advisory Planner is a web-based system. System use requires access to the internet and any standards compliant internet web browser. We recommend the following browsers:

- Mozilla Firefox version 3.5 or higher
- Internet Explorer version 8 or higher
- Google Chrome version 4 or higher
- Opera browser version 12.14 or higher
- Apple Safari 5.17 or higher

For the best browsing experience, JavaScript should be enabled in your internet browser.

## Accessing the CS Advisory Planner System

Enter your **ConnectU Username** and **Password** and click **Login** to access the system.

The image shows a login interface with a light blue background. At the top, the word "Login" is displayed in a large, bold, black font. Below it, there are two input fields: the first is labeled "ConnectU Username" and the second is labeled "Password". The "Password" field contains four black dots. To the right of each label is a corresponding input box. Below the input fields is a grey "Login" button. At the bottom of the form, there are three blue, underlined links: "Create Account", "Reset Password", and "Enter as Guest".

User accounts and permissions are established by create an account with user's MSU Denver information. User with an account will be able to save and load their advising sessions.

Users can also access the system by clicking on **Enter as Guest**. Users without an account will be able to browse the system but they will not be able to save the advising sessions.

At the login webpage, users can create a new account by clicking on **Create Account** link and reset the password by clicking on **Reset Password** link.

## Create an Account

Enter **First Name**, **Last Name**, **ConnectU Username**, and **900 Number** then click **Create**.

A screenshot of a web form titled "Create Account" on a light blue background. The form contains four input fields: "First Name", "Last Name", "ConnectU Username", and "900 Number". Each field has a corresponding label to its left. Below the input fields is a "Create" button.

The system will email users a create account confirmation email with a confirmation link. When clicking on the **confirm account** link in the email, the user will be redirected to **Set Password** webpage. At the **Set Password** webpage, users will be able to set password to connect to the advising system main website.

## Authenticate Account and Password

When authenticating new accounts and resetting passwords, users will be required to use their MSU Denver email account. Users will need to click on the **confirm account** link in their email and the user's internet browser will be redirected to **Set Password** webpage. At the **Set Password** webpage, users enter the new password to reset or change their password.

Open the email then **click on the confirm link** embedded inside the email message.



CS Advisor Planner <unitelsoftwarecsap@gmail.com>

to me ▾

3:22 PM (1 minute ago) ☆

Hello Hung Nguyen.

Please activate your account from the following link.

<http://localhost/trunk/register.php?username=hnguy117&confirmationCode=69pj04VY7zyjrRgSOkGxAg>

## Set Password for New Account

Enter **Password** and **Confirm Password** then click **Set Password**.

Please set and confirm your password below to activate your account

A light blue rectangular form with a dark blue shadow. At the top, the text "Set Password" is centered in a large, bold, black font. Below this, there are two input fields. The first is labeled "Password" and contains the placeholder text "Password". The second is labeled "Confirm Password" and contains the placeholder text "Confirm Password". Below these fields is a grey button with the text "Set Password" in black.

**Set Password**

Password

Confirm Password

The user's internet browser will be redirected to the advising system main webpage.

## Forgot Password

Enter **ConnectU Username** and click on **Email**.

A light blue rectangular form with a dark blue shadow. At the top, the text "Email to Reset Password" is centered in a large, bold, black font. Below this, there is one input field labeled "ConnectU Username" containing the placeholder text "ConnectU Username". Below the input field is a grey button with the text "Email" in black.

**Email to Reset Password**

ConnectU Username

The system will email users with reset/change password message with a confirmation link.

## Set Password for Reset Password

Enter **Password** and **Confirm Password** then click **Set Password**.

Please reset your password and confirm password below

A screenshot of a web form titled "Set Password" on a light blue background. The form contains two input fields: "Password" and "Confirm Password", each with a placeholder text of the same name. Below these fields is a button labeled "Set Password".

Set Password	
Password	<input type="password"/>
Confirm Password	<input type="password"/>
<input type="button" value="Set Password"/>	

## The CS Advisory Planner System Website Navigation – JavaScript Enabled

At the main web page, users can perform the courses scheduling for each semester and the complete CS degree plan. The CS degree is highly structured which requires student to follow a series of courses each semester to appropriately progress through the degree program. While there may be some slight deviations from the plan based on your situation, for such programs we strongly advise that you adhere as closely as possible to the plan in order to finish your degree in a timely manner. In this JavaScript enable version, users can plan the degree by drag and drop the classes for each semester and the results of years for completing the degree.

### The Main Page

The main webpage has two main panels. The left panel is loaded with courses tiles along with semester and the year for students to plan the degree and the right panel is a library of all courses tiles. All the courses tiles are both **moveable** and **editable**. Initially, the brand new user will have the left panel automatically load a default suggested schedule for each semester along with the courses tiles. For returning users, it will automatically load the saved schedule of their last session.

The library contains default courses tiles for computer science, mathematics, and auxiliary courses.

# Computer Science Advisory Planner

Hung Nguyen

Spring 2013

[View](#)

[Help](#)

[Report Bug](#)

[Account](#)

[Log Out](#)

+ Add Previous Year

Spring 2013					
Summer 2013					
Fall 2013	<div>CS 1050</div> <div>Computer Science 1</div> <div>Grade: NC</div> <div>Edit</div>	<div>MTH 2140</div> <div>Computational Matrix Algebra</div> <div>Grade: NC</div> <div>Edit</div>	<div>CS 1400</div> <div>Computer Organization 1</div> <div>Grade: NC</div> <div>Edit</div>	<div>PHI 3370</div> <div>Computers, Ethics, and Society</div> <div>Grade: NC</div> <div>Edit</div>	<div>MTH 1410</div> <div>Calculus I</div> <div>Grade: NC</div> <div>Edit</div>
Spring 2014	<div>CS 2050</div> <div>Computer Science 2</div> <div>Grade: NC</div> <div>Edit</div>	<div>COM 2610</div> <div>Introduction to Technical Writing</div> <div>Grade: NC</div> <div>Edit</div>	<div>CS 2400</div> <div>Computer Organization and Assembly Language</div> <div>Grade: NC</div> <div>Edit</div>	<div>SPE 1010</div> <div>Fundamentals of Public Speaking</div> <div>Grade: NC</div> <div>Edit</div>	<div>MTH 2410</div> <div>Calculus II</div> <div>Grade: NC</div> <div>Edit</div>
Summer 2014					
	<div>MTH 3210</div> <div>Probability and Statistics</div> <div>Grade: NC</div> <div>Edit</div>	<div>MTH 3170</div> <div>Discrete Mathematics</div> <div>Grade: NC</div> <div>Edit</div>			

CS MTH Other

CS 1050  
Computer Science 1  
Grade: NC  
Edit

CS 1400  
Computer Organization 1  
Grade: NC  
Edit

CS 2050  
Computer Science 2  
Grade: NC  
Edit

CS 2400  
Computer Organization and Assembly Language  
Grade: NC  
Edit

CS 3210  
Principles of Programming Languages  
Required Upper Credits: 4  
Grade: NC  
Edit

CS 3240

## Planning the degree

Users are able to plan the degree by editing or modifying the suggested default schedule based on their personal academic history. Users are then able to assemble each semester schedules that best fit their personal agenda.

**Click** on any course tile, **move**, and **place** it in a desire time slot.

The user's schedule will be automatic updated and saved.

Sample screen shot: The course CS 1050 is being placed at the beginning of Fall 2013.

The screenshot displays the "Computer Science Advisory Planner" interface. At the top, it shows the user's name "Hung Nguyen" and the current semester "Spring 2013", along with navigation links: "View", "Help", "Report Bug", "Account", and "Log Out".

The main area features a semester schedule grid with columns for "Spring 2013", "Summer 2013", "Fall 2013", "Spring 2014", and "Summer 2014". A "+ Add Previous Year" link is located above the grid. The "Fall 2013" column is currently active, showing a grid of course tiles. The first tile in the "Fall 2013" column is "CS 1050 Computer Science 1" (Grade: NC), which is highlighted with a dashed border, indicating it is being placed. Other tiles in the "Fall 2013" column include "MTH 2140 Computational Matrix Algebra" (Grade: NC), "CS 1400 Computer Organization 1" (Grade: NC), "PHI 3370 Computers, Ethics, and Society" (Grade: NC), and "MTH 1410 Calculus I" (Grade: NC). The "Spring 2014" column shows "CS 2050 Computer Science 2" (Grade: NC), "COM 2610 Introduction to Technical Writing" (Grade: NC), "CS 2400 Computer Organization and Assembly Language" (Grade: NC), and "SPE 1010 Fundamentals of Public Speaking" (Grade: NC). The "Summer 2014" column shows "MTH 3210 Probability and Statistics" (Grade: NC) and "MTH 3170 Discrete Mathematics" (Grade: NC).

On the right side, there is a "Course Catalog" panel with tabs for "CS", "MTH", and "Other". The "CS" tab is selected, showing a list of courses: "CS 1050 Computer Science 1" (Grade: NC), "CS 1400 Computer Organization 1" (Grade: NC), "CS 2050 Computer Science 2" (Grade: NC), "CS 2400 Computer Organization and Assembly Language" (Grade: NC), "CS 3210 Principles of Programming Languages" (Required Upper Credits: 4, Grade: NC), and "CS 3240" (Grade: NC). Each course tile in the catalog includes an "Edit" link.



## Check for Prerequisite

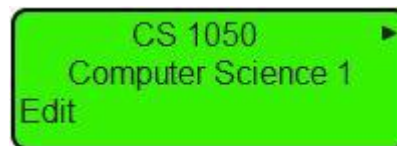
Hover the mouse over a course and all of its prerequisite courses will be displayed highlighted in Yellow color.

Sample screen shot: Hover the mouse over CS 2400 course tile and two courses tiles CS 1050 and CS 1400 are highlighted in yellow color.

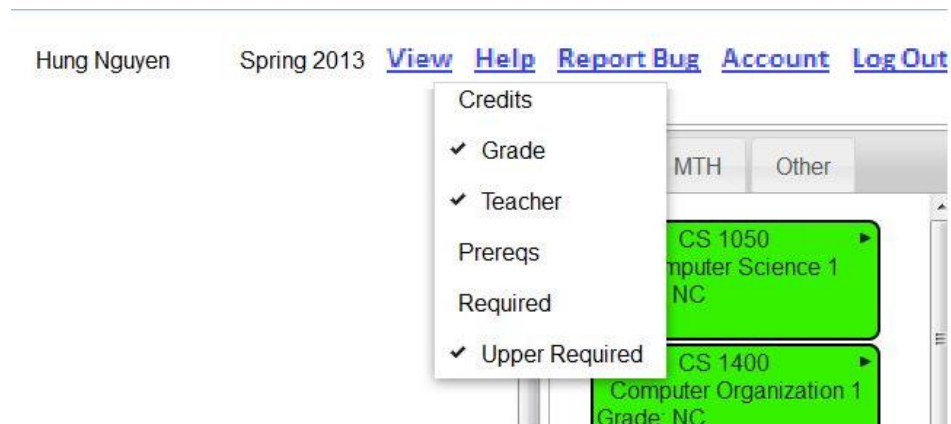
Fall 2013	CS 1050 Computer Science 1 Grade: NC Edit	MTH 2140 Computational Matrix Algebra Grade: NC Edit	CS 1400 Computer Organization 1 Grade: NC Edit	PHI 3370 Computers, Ethics, and Society Grade: NC Edit	MTH 1410 Calculus I Grade: NC Edit
Spring 2014	CS 2050 Computer Science 2 Grade: NC Edit	COM 2610 Introduction to Technical Writing Grade: NC Edit	CS 2400 Computer Organization and Assembly Language Grade: NC Edit	SPE 1010 Fundamentals of Public Speaking Grade: NC Edit	MTH 2410 Calculus II Grade: NC Edit

## Course Tile

All the courses are presented as tiles and are both moveable and editable. Each of the course tiles is preset with two main label rows and an edit button row. The top row is a course number, second row is course name, and third row is the edit button. A typical course tile looks like this:



Users are able to display more information in the course tile by choosing the option under **View** link at the top left of the main web page. Here is a list of additional contents:

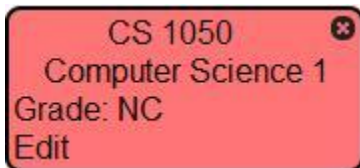


## Course Tile Color Legend

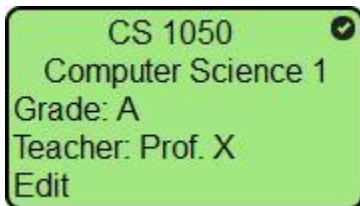
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**Users are able to verify the validity of their schedules by the color of their course tiles.**

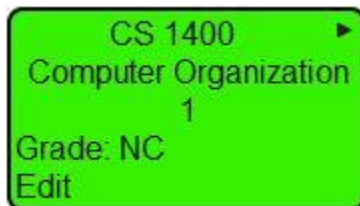
The course tiles are color coded to assist the users to identify type of course and plan their degree accordingly. There are five colors utilized to categorize each course: gray, yellow, orange, red, green, and opaque. Here is the list of the colors and their implication:



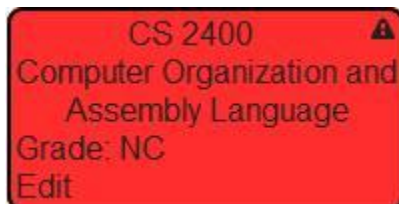
Light Red: course completed without grade/credit.



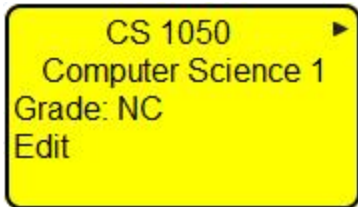
Light Green: course completed with grade/credit.



Green: a course that user currently eligible to register and a course user will be eligible to register if follow the current schedule.



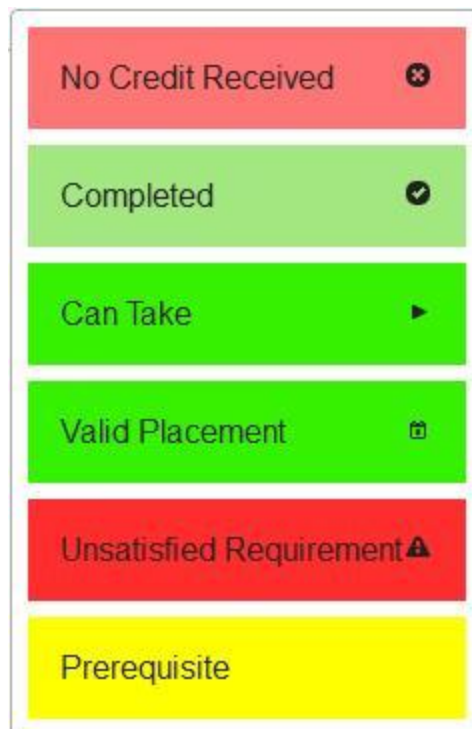
Red: a course user is not eligible to register yet.



Yellow: a course that is a prerequisite for a certain class.

#### **Alternative Color Legends:**

Hover the mouse over the **Help** link, the default color legend will appear on the screen.



### **Edit Course Tile**

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The edit link enables users to edit the information of each individual course tile. The tile's editable contents varies depend on the type of the course such as taken course, current course, and future course. Users are also able to alter their degree plan or course schedule using the edit course menu.

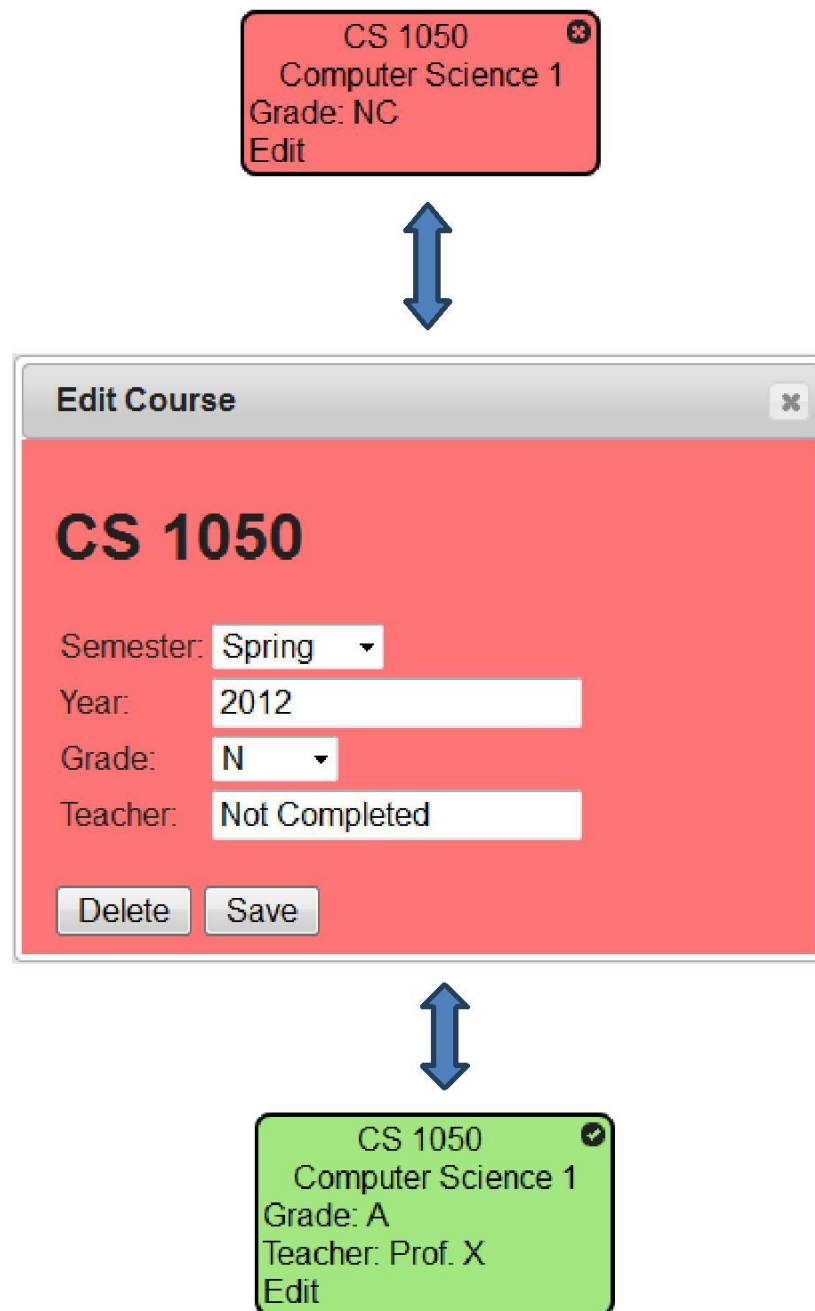
#### **Convert taken course tiles from No Grade/Credits to Received Grade/Credits**

Selected course tile must be in **Light Red**

**Click on Edit**

Enter all the necessary fields

Click Save



### Modifying Degree Plan or Course Schedule

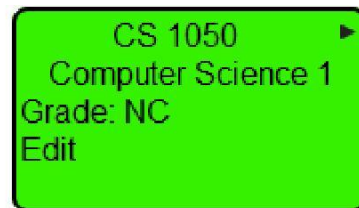
Place a course tile to a specific schedule – Left

**Panel** ○ Click **Edit** of a course tile

- Select and Enter desired **Semester**, **Year**, and **Availability**
- Click **Save**

Delete a course tile from a specific schedule

- Click **Edit**
- Select desired **Semester** and **Year**.
- Click **Delete**



Edit Course

CS 1050

Semester: 

Fall

Year: 

2013

Request Class Availability:

Monday/Wednesday

Tuesday/Thursday

Morning

Don't Care

Don't Care

Afternoon

Don't Care

Don't Care

Evening

Don't Care

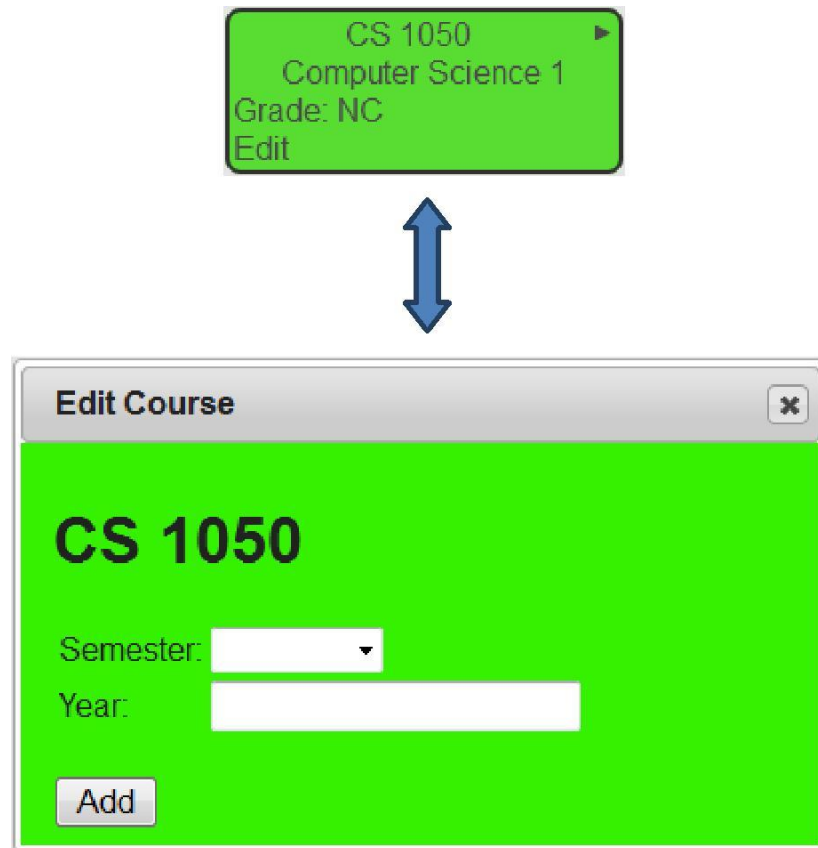
Don't Care

Delete

Save

Place course tile to a specific schedule – **Right Panel (Tiles Library)**

- Click **Edit** of a course tile
- Select and enter desired **Semester** and **Year**.
- Click **Add**



## **Edit Account**

---

Users are able edit their account information or change their password by **Click** on **Account** link at the top of the main web page.

**Edit Account Information**

**Edit** any desire field then **Click Save**.

## Edit Account Information

First Name	<input type="text" value="Hung"/>
Last Name	<input type="text" value="Nguyen"/>
ConnectU Username	<input type="text" value="hnguy117"/>
900 Number	<input type="text" value="900800700"/>

[Change Password](#)

### Change Password

Click on **Change Password** at the **Edit Account Information** screen  
Enter old password and new password then **Click Reset**.

## Change Password

Current Password	<input type="password" value="Current Password"/>
New Password	<input type="password" value="New Password"/>
Confirm New Password	<input type="password" value="Confirm Password"/>

### The CS Advisory Planner System Website Navigation – JavaScript Disabled

In this JavaScript disable version, the users will have an inferior browsing experience in which it will be less intuitive and interactive. As JavaScript enabled version, the process of accessing the system is the identical version but browsing the main web page will be slightly different.

## The Main Page

The set-up of the main webpage in this version is the same as JavaScript version. This version has the same panel set-up as well as the schedule loading. The left panel is loaded with courses tiles along with semester and the year for students to plan the degree and the right panel is a library of all courses tiles. However, the courses tiles are only **editable** and all tiles information is displayed.

**Computer Science Advisory Planner** Hung Nguyen Spring 2013 [View](#) [Help](#) [Report Bug](#) [Account](#) [Log Out](#)

+ Add Previous Year

Semester	Course Tile 1	Course Tile 2	Course Tile 3	Course Tile 4	Course Tile 5
Spring 2013					
Summer 2013					
Fall 2013	CS 1050 Computer Science 1 Grade: NC Edit	MTH 2140 Computational Matrix Algebra Grade: NC Edit	CS 1400 Computer Organization 1 Grade: NC Edit	PH 3370 Computers, Ethics, and Society Grade: NC Edit	MTH 1410 Calculus I Grade: NC Edit
Spring 2014	CS 2050 Computer Science 2 Grade: NC Edit	COM 2610 Introduction to Technical Writing Grade: NC Edit	CS 2400 Computer Organization and Assembly Language Grade: NC Edit	SPE 1010 Fundamentals of Public Speaking Grade: NC Edit	MTH 2410 Calculus II Grade: NC Edit
Summer 2014					
	MTH 3210 Discrete Math	MTH 3170 Discrete Math			

CS MTH Other

CS 1050  
Computer Science 1  
Grade: NC  
Edit

CS 1400  
Computer Organization 1  
Grade: NC  
Edit

CS 2050  
Computer Science 2  
Grade: NC  
Edit

CS 2400  
Computer Organization and Assembly Language  
Grade: NC  
Edit

CS 3210  
Principles of Programming Languages  
Required Upper Credits: 4  
Grade: NC  
Edit

CS 3240

## Planning the degree

Users are able to design or alter their degree plan by editing the each of the course tile in the default schedule to match their personal academic history and preferred agenda.

### Build/Edit Degree Plan or Course Schedule

**Place** a course tile to a specific schedule

- Click **Edit** of a course tile
- Select and Enter desired **Semester, Year,** and **Availability** from new page
- Click **Save**



**Delete** a course tile from a specific schedule

- Click **Edit**
- Select desired **Semester** and **Year**.
- Click **Delete**

---

## CS 1050

Semester:

Year:

Request Class Availability:

	Monday/Wednesday	Tuesday/Thursday
Morning	<input type="text" value="Don't Care"/>	<input type="text" value="Don't Care"/>
Afternoon	<input type="text" value="Don't Care"/>	<input type="text" value="Don't Care"/>
Evening	<input type="text" value="Don't Care"/>	<input type="text" value="Don't Care"/>

**Edit** a course tile content for previous course without credit

- Click **Edit**
- Select desired **Grade**
- Input **Teacher Name**.
- Click **Save**

## CS 2050

Semester:

Year:

Grade:

Teacher:

## Sending Reports for Issues found in the System

Users are able to report issues they find within the system using built in features that takes information from the user and sends the data to the system developers.

For the user to report a bug, they will need to go to the top right hand corner of the main page. The "Report Bug" option can be found between "Help" and "Account".

**Computer Science Advisory Planner**
Hung Nguyen   Spring 2013   [Help](#)   [Report Bug](#)   [Account](#)   [Log Out](#)

+ Add Previous Year

Spring 2013					
Summer 2013					
Fall 2013	<b>CS 1050</b> Computer Science 1 Credits: 4 Required: Yes Required Upper Credits: 0 Prerequisites: Grade: NC Teacher: Not Completed <a href="#">Edit</a>	<b>MTH 2140</b> Computational Matrix Algebra Credits: 2 Required: Yes Required Upper Credits: 0 Prerequisites: Grade: NC Teacher: Not Completed <a href="#">Edit</a>	<b>CS 1400</b> Computer Organization 1 Credits: 4 Required: No Required Upper Credits: 0 Prerequisites: Grade: NC Teacher: Not Completed <a href="#">Edit</a>	<b>PHI 3370</b> Computers, Ethics, and Society Credits: 3 Required: Yes Required Upper Credits: 0 Prerequisites: Grade: NC Teacher: Not Completed <a href="#">Edit</a>	<b>MTH 1410</b> Calculus I Credits: 4 Required: Yes Required Upper Credits: 0 Prerequisites: Grade: NC Teacher: Not Completed <a href="#">Edit</a>
Spring 2014	<b>CS 2050</b> Computer Science 2 Credits: 4 Required: Yes Required Upper Credits: 0 Prerequisites: CS 1050	<b>COM 2610</b> Introduction to Technical Writing Credits: 3 Required: Yes Required Upper Credits: 0	<b>CS 2400</b> Computer Organization and Assembly Language Credits: 4 Required: Yes Required Upper Credits: 0	<b>SPE 1010</b> Fundamentals of Public Speaking Credits: 3 Required: Yes Required Upper Credits: 0	<b>MTH 2410</b> Calculus II Credits: 4 Required: Yes Required Upper Credits: 0 Prerequisites: MTH

- CS
- MTH
- Other

**CS 1050**  
 Computer Science 1  
 Credits: 4  
 Required: Yes  
 Required Upper Credits: 0  
 Prerequisites:  
 Grade: NC  
 Teacher: Not Completed  
[Edit](#)

**CS 1400**  
 Computer Organization 1  
 Credits: 4  
 Required: No  
 Required Upper Credits: 0  
 Prerequisites:  
 Grade: NC  
 Teacher: Not Completed  
[Edit](#)

**CS 2050**  
 Computer Science 2  
 Credits: 4  
 Required: Yes  
 Required Upper Credits: 0  
 Prerequisites: CS 1050  
 Grade: NC

### Bug Report

- Click **Report Bug**
- Type the issue in the given space.
- Click **Send**

Bug Report

Brief Description of Issue

Type Issue Here

SEND

CANCEL