

Release Notes, proj-courses, s24-4pm-2

Here is a summary of our changes:

> [Feature] Displaying Historical Grade Data

When a user clicks the little ⓘ displayed next to a course after a search, they are taken to a course details page which now contains graphs depicting the historical grade distributions for the course.

Previously the course info page looked like this:

The screenshot shows the course details for CMPSC 130A W22. At the top, there is a header with a hand icon, the text "UCSB Courses Search", "Other Searches", and a "Log In" button. Below the header is a table with course information:

Course ID	Enroll Code	Section	Title	Enrolled	Location	Days	Time	Instructor
CMPSC 130A	08128	0100	DATA STRUCT ALGOR	80/100	CHEM 1171	T R	12:30 PM - 1:45 PM	SINGH A K

Below the table is a section titled "Course Description" with the following text: "Data structures and applications with proofs of correctness and analysis. Hash tables, priority queues (heaps); balanced search trees. Graph traversal techniques and their applications." At the bottom of the page, there is a note: "This app is a class project of [CMPSC 156](#) at [UCSB](#). Check out the source code on [GitHub](#)! This is not an official source of UCSB course information. An official source can be found [here](#). The cartoon Storke Tower images in the brand logo and favicon for this site were developed by Chelsea Lyon-Hayden, Art Director for UCSB Associated Students, and are used here by permission of the Executive Director of UCSB Associated Students. These images are Copyright © 2021 UCSB Associated Students, and may not be reused without express written permission of the Executive Director of UCSB Associated Students. For more info, visit: [www.as.ucsb.edu/sticker-packs/](#)".

Now, it looks like this, with more graphs below for all previous offerings:

The screenshot shows the course details for CMPSC 130A W22. At the top, there is a header with a hand icon, the text "UCSB Courses Search", "Main Search", "Other Searches", and a "Log In" button. Below the header is a table with course information:

Course ID	Enroll Code	Section	Title	Enrolled	Location	Days	Time	Instructor
CMPSC 130A	08128	0100	DATA STRUCT ALGOR	80/100	CHEM 1171	T R	12:30 PM - 1:45 PM	SINGH A K

Below the table is a section titled "Course Description" with the following text: "Data structures and applications with proofs of correctness and analysis. Hash tables, priority queues (heaps); balanced search trees. Graph traversal techniques and their applications." At the bottom of the page, there is a note: "Spring 2022 - LOKSHTANOV D". Below the note is a bar chart showing the percentage distribution of grades:

Grade	Percentage
A+	0.0%
A	20.0%
A-	5.0%
B+	15.0%
B	32.0%
B-	2.0%
C+	5.0%
C	12.0%
C-	2.0%
D+	0.0%
D	0.0%
D-	0.0%
F	2.0%
P	0.0%
W	0.0%
NP	0.0%

> [Feature] Flexible User Input for Course Number (Course History Search Page)

On the course history page, the user has more flexibility on what to input on the “Course Number” field. For example, for the class “CMPSC 130A”, originally, the user was forced to put “130A” in the field.

However, now we have relaxed the case sensitivity to the field. Also, in case the user is comfortable with adding the subject area with the course number (i.e. writing “CMPSC 130A” as a course number), it is now possible to write the whole course, as well as some alternative subject area names for Computer Science. For example, the following inputs are now valid for “CMPSC 130A”:

- cmpsc130a
- cmPSC130a
- CS130a
- cs130a
- COMS130a
- coms 130a
- (... etc. In short, we now allow the subject field “COMS” and “CS” for Computer Science, with case insensitivity)

Additionally, if the user inputs an invalid subject area before the course number, or forgets to put the course number in the search field, the search will not occur.

Below are some screenshots of output for some example user inputs:

Before, “CS156” would not output anything:

Start Quarter	End Quarter	Subject Area								
W22	W22	CMPSC - Computer Science								
Course Number (Try searching '16' or '130A')										
CS156										
<input type="button" value="Submit"/>										
Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info

Now, we will get the search results when inputting “CS156” as the course number:

"CS156"

Welcome to the UCSB Course History Search!

Start Quarter	End Quarter	Subject Area								
W22	S22	CMPSC - Computer Science								
Course Number (Try searching '16' or '130A')										
CS156										
<input type="button" value="Submit"/>										
Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
+ S22	CMPSC 156	ADV APP PROGRAM	Open	71/72	SH 1431	T R	2:00 PM - 3:15 PM	CONRAD P T	08250	
+ W22	CMPSC 156	ADV APP PROGRAM	Closed	72/72	SH 1431	M W	12:30 PM - 1:45 PM	CONRAD P T	08292	

Some more flexibility (and checks) in user input is shown below:

Before:

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Subject Area

W22	W22	CMPSC - Computer Science
-----	-----	--------------------------

Course Number (Try searching '16' or '130A')

lskdjfslkjfl156

Submit

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
---------	-----------	-------	--------	----------	----------	------	------	------------	-------------	------

After:

"LKFJLKSDJLSF156"

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Subject Area

W22	S22	CMPSC - Computer Science
-----	-----	--------------------------

Course Number (Try searching '16' or '130A')

fsgfg156

Submit

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
---------	-----------	-------	--------	----------	----------	------	------	------------	-------------	------

Before:

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Subject Area

W22	W22	CMPSC - Computer Science
-----	-----	--------------------------

Course Number (Try searching '16' or '130A')

cs130a

Submit

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
---------	-----------	-------	--------	----------	----------	------	------	------------	-------------	------

After:

"cs130a"

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Subject Area

W22	S22	CMPSC - Computer Science
-----	-----	--------------------------

Course Number (Try searching '16' or '130A')

cs130a

Submit

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
+ S22	CMPSC 130A	DATA STRUCT ALGOR	Closed	51/77	PSYCH 1902	T R	9:30 AM - 10:45 AM	LOKSHTANOV D	08078	ⓘ
+ W22	CMPSC 130A	DATA STRUCT ALGOR	Closed	80/100	CHEM 1171	T R	12:30 PM - 1:45 PM	SINGH A K	08128	ⓘ

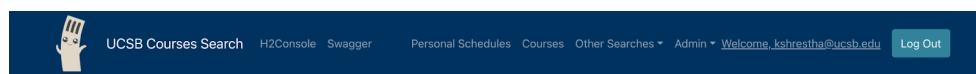
> [Feature] Users can access Swagger endpoints

On the main search page, users can now click on the “Swagger” link to access the Swagger endpoints.

Before:



After:



Welcome to the UCSB Courses Search App!

Quarter: W22 Subject Area: ANTH - Anthropology Course Level: Undergrad-All

Submit

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
-----------	---------	-------	--------	----------	----------	------	------	------------	-------------	------

Courses

API Docs Home Page [View on GitHub](#) H2 Console (only on localhost)

Servers: /

PersonalSchedules

- GET** /api/personalschedules Get a single personal schedule (if it belongs to current user)
- PUT** /api/personalschedules Update a single personal schedule (if it belongs to current user)
- DELETE** /api/personalschedules Delete a personal schedule owned by this user
- GET** /api/personalschedules/admin Get a single personal schedule (no matter who it belongs to, admin only)
- PUT** /api/personalschedules/admin Update a single Schedule (regardless of ownership, admin only, can't change ownership)

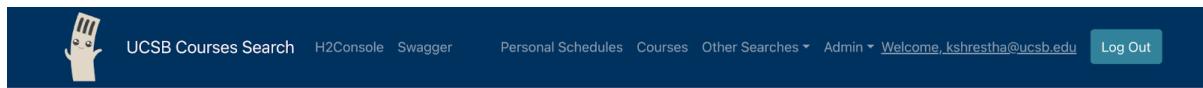
> [Feature] Users can access H2Console

On the main search page, users can now click on the “H2Console” link to access the H2Console to connect and view the database.

Before:



After:



Welcome to the UCSB Courses Search App!

Quarter Subject Area

W22

ANTH - Anthropology

Course Level

Undergrad-All

Submit

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
-----------	---------	-------	--------	----------	----------	------	------	------------	-------------	------

English Preferences Tools Help

Login

Saved Settings: Generic H2 (Embedded)
Setting Name: Generic H2 (Embedded) Save Remove

Driver Class: org.h2.Driver

JDBC URL: jdbc:h2:file:/target/db-development

User Name: sa

Password:

Connect Test Connection

> [Bug Fix] When user uses a quarter dropdown, default quarter is END_QTR not START_QTR

If there is nothing in local storage, the default selected quarter will be the environment variable END_QTR in every quarter dropdown. Before this change, the default for each quarter dropdown was the environment variable START_QTR. If there is something in local storage, the quarter stored in local storage will be used.

Before: F20 is the earliest quarter, so it was picked as default



Welcome to the UCSB Courses Search App!

Quarter Subject Area

F20

ANTH - Anthropology

Course Level

Undergrad-All

Submit

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info	Action
-----------	---------	-------	--------	----------	----------	------	------	------------	-------------	------	--------

After: F24 is the latest quarter, so when there is no local storage it is picked.

Welcome to the UCSB Courses Search App!

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info	Action
-----------	---------	-------	--------	----------	----------	------	------	------------	-------------	------	--------

> [Feature] Developers can delete PSCourse using psId and enrollCd

There is a new swagger delete endpoint for PSCourses which deletes a course from a personal schedule using psId and enrollCd instead of id. When you run this on local host you can see the new way to delete.

Before: There is no delete endpoint called /api/courses/user/psid

PSCourse

GET	/api/courses/user	Get a single course (user)
PUT	/api/courses/user	Update a single course (user)
DELETE	/api/courses/user	Delete a course (user)
GET	/api/courses/admin	Get a single course (admin)
PUT	/api/courses/admin	Update a single Course (admin)
DELETE	/api/courses/admin	Delete a course (admin)
POST	/api/courses/post	Create a new course
GET	/api/courses/user/psid/all	List all courses for a specified psid (user)
GET	/api/courses/user/all	List all courses (user)
GET	/api/courses/admin/psid/all	List all courses for a specified psid (admin)
GET	/api/courses/admin/all	List all courses (admin)

After: The last endpoint, called /api/courses/user/psid, under PSCourse is the new delete endpoint

PSCourse		
GET	/api/courses/user	Get a single course (user)
PUT	/api/courses/user	Update a single course (user)
DELETE	/api/courses/user	Delete a course (user)
GET	/api/courses/admin	Get a single course (admin)
PUT	/api/courses/admin	Update a single Course (admin)
DELETE	/api/courses/admin	Delete a course (admin)
POST	/api/courses/post	Create a new course
GET	/api/courses/user/psid/all	List all courses for a specified psid (user)
GET	/api/courses/user/all	List all courses (user)
GET	/api/courses/admin/psid/all	List all courses for a specified psid (admin)
GET	/api/courses/admin/all	List all courses (admin)
DELETE	/api/courses/user/psid	Delete a course with psid and enroll code (user)

When the user expands the new endpoint they can see the spot to enter enrollCd and psId.

The screenshot shows a detailed view of the DELETE /api/courses/user/psid endpoint. At the top, there's a red-bordered box containing the endpoint URL. Below it, a section titled "Parameters" lists two required parameters: "enrollCd" (string, query) and "psid" (integer(\$int64), query). Each parameter has a text input field next to it. In the top right corner of the main content area, there's a "Try it out" button.

This feature was added in order to implement the following feature, Add Delete Button for Sections.

> [Feature] User Can Delete Sections from Personal Schedule Details Page

When a user clicks on Personal Schedules, they are taken to a page that lists their personal schedules. When they click on the 'Details' button of an entry on this table, they are taken to the Personal Schedule Details Page.

On the Personal Schedule Details Page, there is a table called Sections in Personal Schedule. The delete button in this table is the new feature. If the user clicks the delete button, that sections and associated lecture is deleted from this personal schedule. The old way to do this was to go to the Courses page and delete the course from the personal schedule there, but this was unintuitive.

Before: There is no delete button in the Sections in Personal Schedules table



UCSB Courses Search

Personal Schedules Courses Other Searches ▾ Welcome, kmflippo@ucsb.edu Log Out

Personal Schedules Details

id	Name	Description	Quarter
80	kmflippo	jfkDSL	S24

Sections in Personal Schedule

Course ID	Enroll Code	Section	Title	Enrolled	Location	Days	Time	Instructor
ANTH 197ES	00729	0100	SPECIAL COURSES	24/30	HSSB 2001A	T	4:00 PM - 6:50 PM	SALDIVAR TANA

[Back](#)

After: After navigating to the Personal Schedules page, then to the Personal Schedules details page, there is a delete button in the Sections in Personal Schedules table



UCSB Courses Search

Personal Schedules Main Search Courses Other Searches ▾ Admin ▾ Welcome, kmflippo@ucsb.edu Log Out

Personal Schedules

id	Name	Description	Quarter	Details	Edit	Delete
1	fsd	dtu	S22	Details	Edit	Delete
2	ki	lo	W22	Details	Edit	Delete

[Add New Personal Schedule](#)



UCSB Courses Search

Personal Schedules Main Search Courses Other Searches ▾ Admin ▾ Welcome, kmflippo@ucsb.edu Log Out

Personal Schedules Details

id	Name	Description	Quarter
2	ki	lo	W22

Sections in Personal Schedule

Course ID	Enroll Code	Section	Title	Enrolled	Location	Days	Time	Instructor	Delete
ANTH 99	00463	0100	INDEPENDENT STUDIES						Delete
ANTH 197TP	53256	0100	SPECIAL COURSES		ELLSN 2626	T R	2:00 PM - 3:15 PM	TOOBY J	Delete

[Back](#)

>[Feature] Users can now Update Grade Info

A button to Update Grade Info in Manage Jobs under Admin is now available.

The screenshot shows the UCSB Courses Search interface. At the top, there is a dark blue header bar with the "UCSB Courses Search" logo, a hand icon, and navigation links for "Personal Schedules", "Main Search", "Courses", "Other Searches", "Admin", and a welcome message "jchan975@ucsb.edu". On the far right of the header is a "Log Out" button. Below the header, the main content area has a title "Launch Jobs". Under this title is a list of job entries, each with a dropdown arrow icon on the right. The entries are: "Test Job", "Update Courses Database", "Update Courses Database by quarter", "Update Courses Database by quarter range", and "Update Grade Info". The "Update Grade Info" entry is highlighted with a blue background. At the bottom of this list is a blue "Update Grades" button.

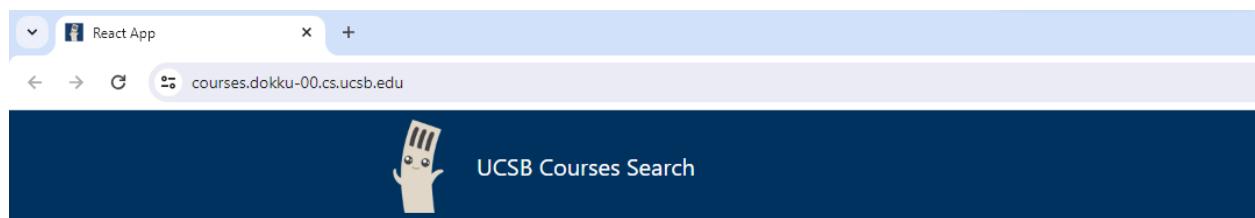
Job Status

id <input checked="" type="checkbox"/>	Created	Updated	Status	Log
1	6/5/2024, 16:25:00	6/5/2024, 16:25:16	running	Updating UCSB Grade History Data Processing data for year: 20094 Processing data for subjectArea: ANTH Processing data for subjectArea: ART CS Processing data for subjectArea: ARTHI Processing data for subjectArea: ARTST Processing data for subjectArea: AS AM Processing data for subjectArea: BIOL CS Processing data for subjectArea: BL ST Processing data for subjectArea: BMSE Processing data for subjectArea: C LIT Processing data for subjectArea: CH E Processing data for subjectArea: CH ST Processing data for subjectArea: CHEM CS Processing data for subjectArea: CHEM Processing data for subjectArea: CHIN Processing data for subjectArea: CLASS Processing data for subjectArea: CMPSC Processing data for subjectArea: CMPSCCS Processing data for subjectArea: CNCSP

>[Bug] Changed name of tab to Courses

Before the name of the app was React app which led to the name of the tab being React App.
Now the tab is named Courses.

Old Name:



New Name:

A screenshot of a web browser window titled "Courses". The address bar shows "courses.dokku-02.cs.ucsb.edu". The main content area is identical to the previous screenshot, featuring the same header, form, and search results. The "Welcome" message in the header now includes the email "jchan975@ucsb.edu".

>[Bug] Highlight from hovering is hard to see

The color on the original tables was supposed to be alternating and was also supposed to turn a different color when hovered over. However, it was changing into a color that was indistinguishable from the original. In this fix the colors were changed and the alternating colors are more obviously different. In addition the highlight color was changed to a more obvious gray. The button color was also changed to match the new color scheme. Sections and lectures are distinguished by the fact that the lectures are bolded, which ones are sections and which are not from the bolded names in the general search. In search by instructor, the lectures are now blue while the sections are white.

Old design while hovering:



UCSB Courses Search

Personal Schedules Courses Other Searches ▾ Admin ▾ Welcome, jchan975@ucsb.edu Log Out

Welcome to the UCSB Courses Search App!

Quarter	Subject Area	Course Level
S22	ANTH - Anthropology	Undergrad-All
<input type="button" value="Submit"/>		

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
ANTH 2	S22	INTRO CULT ANTHRO	Open	515/625	CAMPB HALL	M W F	9:00 AM - 9:50 AM	WALSH C	00018	
ANTH 3	S22	INTRO ARCH	Open	245/325	MUSIC LLCH	M W F	10:00 AM - 10:50 AM	KENNEDY D J	00240	
ANTH 7	S22	INTRO BIOSOC ANTH	Open	72/75	ON LINE	T R	5:00 PM - 6:15 PM	DAVISON R J	62646	

New design with alternating colors and hovered over portion is gray and easily seen:



UCSB Courses Search H2Console Swagger Personal Schedules Courses Other Searches ▾ Admin ▾ Welcome, jchan975@ucsb.edu Log Out

Welcome to the UCSB Courses Search App!

Quarter	Subject Area	Course Level
W22	ANTH - Anthropology	Undergrad-All
<input type="button" value="Submit"/>		

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
ANTH 2	W22	INTRO CULT ANTHRO	Open	450/475	IV THEA1	M W	11:00 AM - 12:15 PM	WERTH S	00018	
ANTH 5	W22	INTRO BIO ANTH	Open	250/325	IV THEA1	T R	11:00 AM - 12:15 PM	GAULIN S J	00240	
ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		GIRV 1004	T R	5:00 PM - 6:15 PM	TOOBY J	00380	
ANTH 99	W22	INDEPENDENT STUDIES	Open						00463	<input type="button" value="Add"/>
ANTH 00	W22	INDEPENDENT	Open	2/40				SMITH S T	77843	

Lectures are bolded while sections are not:



Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
+ ANTH 2	W22	INTRO CULT ANTHRO	Open	450/475	IV THEA1	M W	11:00 AM - 12:15 PM	WERTH S	00018	
+ ANTH 5	W22	INTRO BIO ANTH	Open	250/325	IV THEA1	T R	11:00 AM - 12:15 PM	GAULIN S J	00240	
- ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		GIRV 1004	T R	5:00 PM - 6:15 PM	TOOBY J	00380	
ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		ARTS 1353	R	9:00 AM - 9:50 AM		00398	Add
ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		GIRV 2116	M	11:00 AM - 11:50 AM		00406	Add
ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		GIRV 2123	F	10:00 AM - 10:50 AM		00414	Add
ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		GIRV 1112	T	3:00 PM - 3:50 PM		00422	Add
ANTH 7	W22	INTRO BIOSOC ANTH	Cancelled		HSSB 1236	R	8:00 AM - 8:50 AM		00430	Add

In search by instructor lectures are blue while sections are white:

Welcome to the UCSB Course Instructor Search!

Start Quarter End Quarter

S22 S22

Instructor Name

mirza

Lectures Only

Submit

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code
S22	CMPSC 24	PROBLEM SOLVING II	Closed	117/131	BUCHN 1920	M W	2:00 PM - 3:15 PM	MIRZA D	07864
S22	CMPSC 40	FOUNDATION COMP SCI	Open	114/125	NH 1006	T R	2:00 PM - 3:15 PM	MIRZA D	07930
S22	CMPSC 196 -	UNDERGRAD RESEARCH	Open	1/10				MIRZA D	83550
S22	WRIT W 6R	ROME: THE GAME	Open	10/12	ON LINE	T	4:00 PM - 4:50 PM	MIRZAEI M	61234
S22	WRIT W 6R	ROME: THE GAME	Open	9/12	ON LINE	T	5:00 PM - 5:50 PM	MIRZAEI M	61259
S22	ARTHIW 6R	ROME THE GAME	Full	14/12	ON LINE	T	4:00 PM - 4:50 PM	MIRZAEI M	60145
S22	ARTHIW 6R	ROME THE GAME	Full	16/12	ON LINE	T	5:00 PM - 5:50 PM	MIRZAEI M	60160

>[Bug] Add course dialog allows adding course to the wrong schedule

When the user clicks the add button for a course in a given quarter, say F24, in the modal that pops up, all of the personal schedules for that quarter are shown, and ONLY the personal

schedules for that quarter are shown.

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
CMPSC 5A	S24	INTRO DATA SCI 1	Open	86/140	ILP 1101	T R	9:30 AM - 10:45 AM	SOLIS S W	07435	View
CMPSC 5A	S24	INTRO DATA SCI 1	Open	28/35	SH 1430	W	1:00 PM - 1:50 PM	ZANGOS C	07492	Add
CMPSC 5A	S24	INTRO DATA SCI 1	Open	21/35	PHELP 1440	W	2:00 PM - 2:50 PM	ZANGOS C	57380	Add
CMPSC 5A	S24	INTRO DATA SCI 1	Open	16/35	PHELP 1440	W	3:00 PM - 3:50 PM	PENG J	57398	Add
CMPSC 5A	S24	INTRO DATA SCI 1	Open	21/35	PHELP 1440	W	4:00 PM - 4:50 PM	SALGADO ZAVAL	57406	Add
CMPSC 5A	S24	INTRO DATA SCI 1	Open	50/150	ILP 2101	T R	3:30 PM - 4:45 PM	TANNA A A	60251	View
CMPSC 5B	S24	INTRO DATA SCI 2	Open	35/100	ILP 2211	T R	3:30 PM - 4:45 PM	SOLIS S W	07500	View

When the user clicks the add button for a course in a given quarter, say F24, if there are no personal schedules for that quarter that already exist, the modal says: "There are no personal schedules for F24" (or whatever the quarter is), and there is a button [Create Personal Schedule] that when the user clicks it, navigates to the create page.

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
CMPSC 1	F24	SEMINAR COMP SCI	Closed		ILP 2207	F	9:30 AM - 10:45 AM	BELDING E M, MIRZA D	61630	Add
CMPSC 5A	F24	INTRO DATA SCI 1	Open	28/50	ILP 1101	M W	8:00 AM - 9:15 AM	TANNA A A	07708	View
CMPSC 5A	F24	INTRO DATA SCI 1	Open	9/38	NH 1109	R	9:00 AM - 9:50 AM		07716	Add
CMPSC 5A	F24	INTRO DATA SCI 1	Open	5/38	NH 1109	R	10:00 AM - 10:50 AM		07724	Add
CMPSC 5A	F24	INTRO DATA SCI 1	Open	9/37	PHELP 1425	R	11:00 AM - 11:50 AM		07732	Add
CMPSC 5A	F24	INTRO DATA SCI 1	Open	5/37	GIRV 2128	R	12:00 PM - 12:50 PM		07740	Add

>[Bug] Main Course Search page only accessible through the logo

Previously, the user had to know that the main course page was only accessible through the logo which can be confusing. Therefore, an extra Main Search button was added to the navbar as another method for users to ask the main search page.

Before:

After:

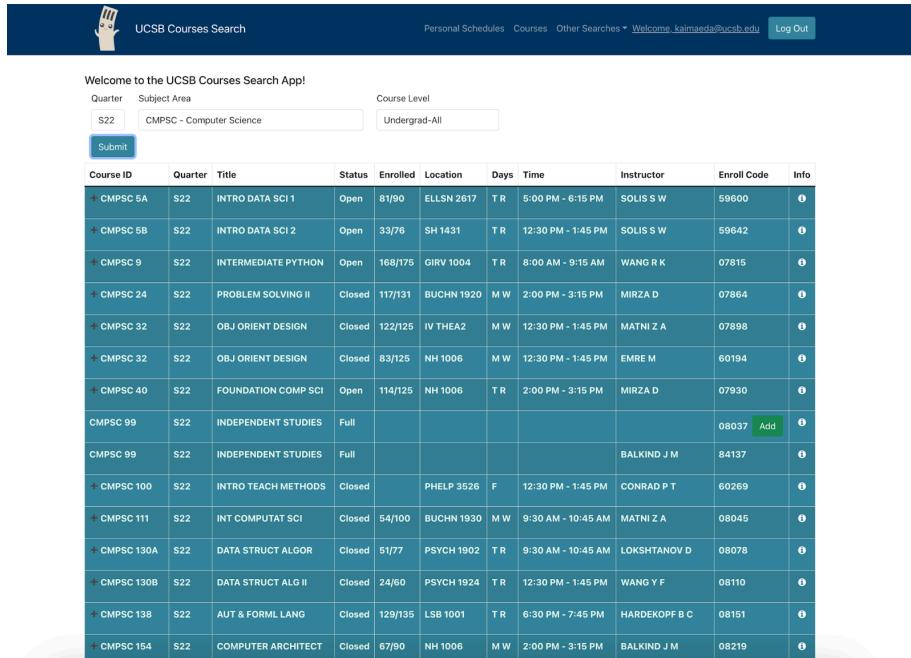


The header bar is now clean and organized. It features a logo of a hand holding a pencil, followed by the text "UCSB Courses Search". To the right are links for "Personal Schedules", "Main Search", "Courses", "Other Searches", "Admin", and a welcome message "Welcome, kaimaeda@ucsb.edu". A "Log Out" button is also present.

>[Feature] Better UI and UX in Main Search Page

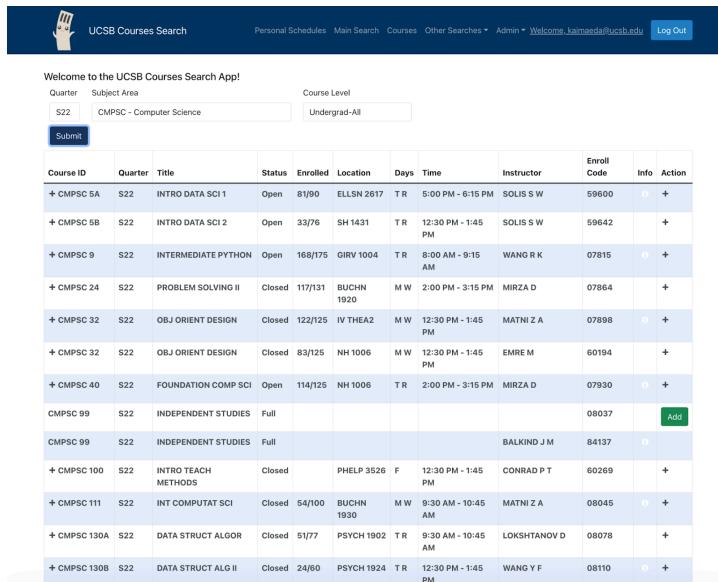
Previously, the main search page had an awkward formatting where dropdowns for lectures and add buttons were included in a nonrelated column. Therefore, both these buttons were moved into a new column labeled action for a more organized UI/UX.

Before:



The header bar includes a logo, "UCSB Courses Search", and navigation links for "Personal Schedules", "Courses", "Other Searches", "Admin", and "Logout". Below the header is a search form with fields for "Quarter" (S22), "Subject Area" (CMPSC - Computer Science), and "Course Level" (Undergrad-All). A "Submit" button is located below the search form. The main content area displays a table of course offerings with columns for Course ID, Quarter, Title, Status, Enrolled, Location, Days, Time, Instructor, Enroll Code, and Info. Each row contains a plus sign icon and a green "Add" button.

After:



The header bar is identical to the one above. The main content area now shows the same table of course offerings, but the "Info" and "Action" columns have been merged into a single "Action" column. The "Add" button is now placed directly next to the "Info" link in each row.

>[Bug] Add Button Not Showing Up for Certain Lectures

There was a bug that was found where when multiple lectures with no sections with the same name showed up subsequently, only the first lecture had an add button. This bug was fixed so that those lectures can now be added.

Before:

UCSB Courses Search										
Personal Schedules Courses Other Searches Log Out										
MATH 101B	S22	MATH SYSTEMS	Open	32/45	GIRV 1112	T R	9:30 AM - 10:45 AM	OGRAIN C M	31781	Add
MATH 104B	S22	NUMERICAL ANALYSIS	Open	56/65	PSYCH 1902	M W F	9:00 AM - 9:50 AM	TANG S	31799	Add
MATH 104C	S22	ADV NUM ANALYSIS	Open	93/130	BUCHN 1940	T R	2:00 PM - 3:15 PM	CENICEROS H	31807	Add
MATH 104C	S22	ADV NUM ANALYSIS	Open	45/65	NH 1105	T R	9:30 AM - 10:45 AM	YANG XU	31815	Add
MATH 108A	S22	INTRO TO LINEAR ALG	Open	53/60	PHELP 3505	T R	11:00 AM - 12:15 PM	STOPPLE J	31831	Add
MATH 108A	S22	INTRO TO LINEAR ALG	Open	47/60	GIRV 2128	T R	2:00 PM - 3:15 PM	STOPPLE J	31849	Add
MATH 108B	S22	ADV LINEAR ALG	Full	66/65	PHELP 1160	T R	12:30 PM - 1:45 PM	YE R	31864	Add
MATH 108C	S22	MTRX ANLYS	Full	53/50	SH 1430	T R	3:30 PM - 4:45 PM	BUENO CACHADI	31872	Add
MATH 111C	S22	ABSTRACT ALGEBRA	Open	47/60	PHELP 1160	T R	9:30 AM - 10:45 AM	SCHLEY N B	31880	Add
MATH 115B	S22	INTRO NUMBER THEORY	Open	21/45	GIRV 1115	M W F	12:00 PM - 12:50 PM	ZHANG YITANG	31898	Add
MATH 117	S22	METHODS OF ANALYSIS	Open	58/60	SH 1431	T R	3:30 PM - 4:45 PM	CRAIG K C	31914	Add
MATH 117	S22	METHODS OF ANALYSIS	Full	61/60	PHELP 3505	T R	8:00 AM - 9:15 AM	LIM G	31922	Add
MATH 118C	S22	INTRO REAL ANALYSIS	Open	29/60	PHELP 3505	T R	12:30 PM - 1:45 PM	LABUTIN D A	31948	Add
MATH 118C	S22	INTRO REAL ANALYSIS	Open	34/60	TD-W 2600	T R	3:30 PM - 4:45 PM	ZHOU HANMING	31955	Add
MATH 122B	S22	INTRO COMPLX VARIAB	Open	35/45	GIRV 1119	T R	11:00 AM - 12:15 PM	PUTINAR M	31963	Add
MATH 137A	S22	GRAPH/NETWORK THEOR	Full	54/50	SH 1430	M W F	11:00 AM - 11:50 AM	CASTEELS K L	55418	Add
MATH 145	S22	INTRO TO TOPOLOGY	Open	57/60	PHELP 2516	T R	8:00 AM - 9:15 AM	NAGY A	31989	Add
MATH 147A	S22	INTRO DIFF GEOMETRY	Open	59/60	TD-W 2600	T R	2:00 PM - 3:15 PM	DAI X Z	31997	Add

After:

UCSB Courses Search										
Personal Schedules Main Search Courses Other Searches Admin Log Out										
MATH 101B	S22	MATH SYSTEMS	Open	32/45	GIRV 1112	T R	9:30 AM - 10:45 AM	OGRAIN C M	31781	○ Add
MATH 104B	S22	NUMERICAL ANALYSIS	Open	56/65	PSYCH 1902	M W F	9:00 AM - 9:50 AM	TANG S	31799	○ Add
MATH 104C	S22	ADV NUM ANALYSIS	Open	93/130	BUCHN 1940	T R	2:00 PM - 3:15 PM	CENICEROS H	31807	○ Add
MATH 104C	S22	ADV NUM ANALYSIS	Open	45/65	NH 1105	T R	9:30 AM - 10:45 AM	YANG XU	31815	○ Add
MATH 108A	S22	INTRO TO LINEAR ALG	Open	53/60	PHELP 3505	T R	11:00 AM - 12:15 PM	STOPPLE J	31831	○ Add
MATH 108A	S22	INTRO TO LINEAR ALG	Open	47/60	GIRV 2128	T R	2:00 PM - 3:15 PM	STOPPLE J	31849	○ Add
MATH 108B	S22	ADV LINEAR ALG	Full	66/65	PHELP 1160	T R	12:30 PM - 1:45 PM	YE R	31864	○ Add
MATH 108C	S22	MTRX ANLYS	Full	53/50	SH 1430	T R	3:30 PM - 4:45 PM	BUENO CACHADI	31872	○ Add
MATH 111C	S22	ABSTRACT ALGEBRA	Open	47/60	PHELP 1160	T R	9:30 AM - 10:45 AM	SCHLEY N B	31880	○ Add
MATH 115B	S22	INTRO NUMBER THEORY	Open	21/45	GIRV 1115	M W F	12:00 PM - 12:50 PM	ZHANG YITANG	31898	○ Add
MATH 117	S22	METHODS OF ANALYSIS	Open	58/60	SH 1431	T R	3:30 PM - 4:45 PM	CRAIG K C	31914	○ Add
MATH 117	S22	METHODS OF ANALYSIS	Full	61/60	PHELP 3505	T R	8:00 AM - 9:15 AM	LIM G	31922	○ Add
MATH 118C	S22	INTRO REAL ANALYSIS	Open	29/60	PHELP 3505	T R	12:30 PM - 1:45 PM	LABUTIN D A	31948	○ Add
MATH 118C	S22	INTRO REAL ANALYSIS	Open	34/60	TD-W 2600	T R	3:30 PM - 4:45 PM	ZHOU HANMING	31955	○ Add
MATH 122B	S22	INTRO COMPLX VARIAB	Open	35/45	GIRV 1119	T R	11:00 AM - 12:15 PM	PUTINAR M	31963	○ Add
MATH 137A	S22	GRAPH/NETWORK THEOR	Full	54/50	SH 1430	M W F	11:00 AM - 11:50 AM	CASTEELS K L	55418	○ Add
MATH 145	S22	INTRO TO TOPOLOGY	Open	57/60	PHELP 2516	T R	8:00 AM - 9:15 AM	NAGY A	31989	○ Add
MATH 147A	S22	INTRO DIFF GEOMETRY	Open	59/60	TD-W 2600	T R	2:00 PM - 3:15 PM	DAI X Z	31997	○ Add

> [Bug] Fixing quarter output order on Course History, Course Location History, and Instructor search page to be newest first. Previously, the three searches looked like this:

Course History:

UCSB Courses Search

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Subject Area

F13	F24	CMPSC - Computer Science
-----	-----	--------------------------

Course Number (Try searching '16' or '130A')

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
+ F13	CMPSC 130A	DATA STRUCT ALGOR	Closed	68/75	PHELP 3515	M W	9:30 AM - 10:45 AM	SINGH A K	08938	
+ W14	CMPSC 130A	DATA STRUCT ALGOR	Closed	72/75	SH 1431	M W	8:00 AM - 9:15 AM	EL ABBADI A	08524	
+ S14	CMPSC 130A	DATA STRUCT ALGOR	Open	53/60	GIRV 2128	T R	2:00 PM - 3:15 PM	KOC C K	08326	
+ M14	CMPSC 130A	DATA STRUCT ALGOR	Open	13/30	PHELP 2510	TWR	2:00 PM - 3:20 PM	GONZALEZ T F	02451	
+ F14	CMPSC 130A	DATA STRUCT ALGOR	Open	74/78	PHELP 1260	M W	9:30 AM - 10:45 AM	SURI S	09605	
+ W15	CMPSC 130A	DATA STRUCT ALGOR	Open	74/85	SH 1431	T R	9:30 AM - 10:45 AM	SURI S	09209	

Course Location History:

UCSB Courses Search

Other Searches ▾

Start Quarter End Quarter Building Name

F17	S24	Track Field
-----	-----	-------------

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
+ ES 1-14	F17	IC CROSS COUNTRY	Open	9/30	TRACK FIELD	MTWRF	2:00 PM - 5:50 PM	DOLAN P H	19679	
+ ES 1-14	F17	IC CROSS COUNTRY	Open	10/50	TRACK FIELD	MTWRF	2:00 PM - 5:50 PM	DOLAN P H	19687	
+ ES 1-42	F17	I C TRACK AND FIELD	Open	16/40	TRACK FIELD, TRACK FIELD	MTWRF, MT RF	2:00 PM - 6:00 PM, 7:00 AM - 10:00 AM	DOLAN P H	20164	
+ ES 1-42	F17	I C TRACK AND FIELD	Open	8/60	TRACK FIELD, TRACK FIELD	MTWRF, MT RF	2:00 PM - 6:00 PM, 7:00 AM - 10:00 AM	DOLAN P H	20172	
+ ES 1-36	S18	JOGGING FITNESS	Open	25/50	TRACK FIELD	M W	9:00 AM - 9:50 AM	WILSON R J	20883	
+ ES 1-36	S18	JOGGING FITNESS	Open	21/50	TRACK FIELD	T R	9:00 AM - 9:50 AM	WILSON R J	20891	
ES 1-36	S18	JOGGING FITNESS	Cancelled		TRACK FIELD	M W	11:00 AM - 11:50 AM		20909	

Instructor Search:

 UCSB Courses Search

Other Searches ▾ [Log In](#)

Welcome to the UCSB Course Instructor Search:

Start Quarter End Quarter

S17

F24

Instructor Name

Conrad

Lectures Only

[Submit](#)

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code
S17	CMPSC 596 -	DIRECTED RESEARCH	Open	1/30				CONRAD P T	68569
S17	CMPSC 192	PROJECTS COMP SCI	Open	3/20				CONRAD P T	75713
M17	CMPSC 8	INTRO TO COMP SCI	Open	98/100	PSYCH 1924	TWR	9:30 AM - 10:50 AM	CONRAD P T	02550
M17	CMPSC 193 -	INTERN IN INDUSTRY	Open	1/35				CONRAD P T	19620
M17	CMPSC 192	PROJECTS COMP SCI	Full					CONRAD P T	20594
F17	CMPSC 56	ADV APP PROGRAM	Open	96/100	BUCHN 1930	TR	9:30 AM - 10:45 AM	CONRAD P T	08698
F17	CMPGCS 1A	COMPUTER PROG & ORG	Full	8/8	CRST 0143	M W	10:00 AM - 11:50 AM	CONRAD P T	09365

UPDATED:

Course History:

 UCSB Courses Search

Main Search Other Searches ▾ [Log In](#)

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Subject Area

F20

S22

CMPSC - Computer Science

Course Number (Try searching '16' or '130A')

130A

[Submit](#)

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info
+ S22	CMPSC 130A	DATA STRUCT ALGOR	Closed	51/77	PSYCH 1902	TR	9:30 AM - 10:45 AM	LOKSHTANOV D	08078	
+ W22	CMPSC 130A	DATA STRUCT ALGOR	Closed	80/100	CHEM 1171	TR	12:30 PM - 1:45 PM	SINGH A K	08128	
+ F21	CMPSC 130A	DATA STRUCT ALGOR	Open	90/100	PSYCH 1924	M W	11:00 AM - 12:15 PM	AGRAWAL D	08086	
+ S21	CMPSC 130A	DATA STRUCT ALGOR	Full	73/70	ON LINE	TR	9:30 AM - 10:45 AM	EL ABBADI A	07526	
+ W21	CMPSC 130A	DATA STRUCT ALGOR	Closed	95/90	ON LINE	TR	12:30 PM - 1:45 PM	LOKSHTANOV D	07898	
+ F20	CMPSC 130A	DATA STRUCT ALGOR	Open	88/95	ON LINE	M W	2:00 PM - 3:15 PM	AGRAWAL D	07823	

Course Location History:



UCSB Courses Search

Main Search Other Searches ▾ Log In

Welcome to the UCSB Course History Search!

Start Quarter End Quarter Building Name

F20	F24	Music Lab
<input type="button" value="Submit"/>		

Course ID	Quarter	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code	Info	Action
+ EEMB 112	F24	INVERTEBRATE ZOOLGY	Full	16/16	MLAB 1010	M W	1:00 PM - 3:50 PM		17848		
+ EEMB 144L	F24	MARINE MICRO LAB	Full	16/16	MLAB 1004	M W	2:00 PM - 4:50 PM	CARLSON C A, SANTORO A E	18309		
+ EEMB 194T	F24	PARASITOLOGY	Open		MLAB 3103	M	2:30 PM - 3:30 PM	KURIS A M	18556		
+ EEMB 595T	F24	PARASITOLOGY	Open		MLAB 3103	M	2:30 PM - 3:30 PM	KURIS A M	18754		
+ EEMB 170	M24	MARINE-LAND INTERF	Full	12/12	MLAB 1010, MLAB 1010	T, R	3:00 PM - 5:50 PM, 2:00 PM - 5:50 PM		06577		
INT 93LS	M24	RESEARCH IN STEM	Full	30/30	ILP 4107, MLAB	M W,	12:30 PM - 3:20 PM,	ALZAGATITI J	10272		

Instructor Search:



UCSB Courses Search

Main Search Other Searches ▾ Log In

Welcome to the UCSB Course Instructor Search!

Start Quarter End Quarter

F20	S21
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Instructor Name

Conrad

Lectures Only

Quarter	Course ID	Title	Status	Enrolled	Location	Days	Time	Instructor	Enroll Code
S21	CMPSC 156	ADV APP PROGRAM	Closed	65/72	ON LINE	M W	12:30 PM - 1:45 PM	CONRAD P T	62604
S21	CMPTGCS 130H	ADV TOPICS CMPSC	Closed	7/12	ON LINE	T R	12:30 PM - 1:45 PM	CONRAD P T	63966
S21	CMPSC 196	UNDERGRAD RESEARCH	Open	5/10				CONRAD P T	72173
S21	CMPSC 190B	SOFTWARE SYSTEMS	Closed	6/6	ON LINE	T R	12:30 PM - 1:45 PM	CONRAD P T	75671
W21	CMPTGCS 1L	PROGRAMMING LAB	Open	7/12	ON LINE	R	9:00 AM - 10:50 AM	CONRAD P T	08565
W21	CMPTGCS 20	SPEC TOPICS CMPSC	Open	15/16	ON LINE	M W	3:00 PM - 4:50 PM	CONRAD P T	08581
W21	CMPSC 156	ADV APP PROGRAM	Open	54/72	ON LINE	M W	12:30 PM - 1:45 PM	CONRAD P T	63875

Dev. Info:

> [Update] Developers can run mutation test on a single class or package

Developers can run `mvn pitest:mutationCoverage` on just a single class, or a single package, instead of the entire backend code base. There are also instructions in the README explaining how to run the mutation test on one class.

README update:

Partial pitest runs

This repo has support for partial pitest runs

For example, to run pitest on just one class, use:

```
mvn pitest:mutationCoverage -DtargetClasses=edu.ucsb.cs156.courses.controllers.PSCourseControl
```

To run pitest on just one package, use:

```
mvn pitest:mutationCoverage -DtargetClasses=edu.ucsb.cs156.courses.controllers.*
```

To run full mutation test coverage, as usual, use:

```
mvn pitest:mutationCoverage
```

> [Extra info] For User Can Delete Sections from Personal Schedule Details Page:

There is a new way to delete PSCourses using enrollCd and psId. In order to use it on the Personal Schedules Details Page, the psId is passed into the page, and then passed into the delete mutation function. The mutation function normally only takes in one thing, the cell, so to make it take both the cell and psId mapping is used, which is why this mutation function looks different than every other mutation. Also, the only way to access the enrollCd from the cell is to call it using cell.row.values["classSections[0].enrollCode"].

> [Update] Updated Backend Code to Spring Boot 3

In order to protect security issues on some of the backend codes dependencies that were on patched in Spring Boot 3 and to be able to use features only available in Spring Boot 3, the entire backend code was upgraded from Spring Boot 2 to Spring Boot 3

Link to PRs:

[Flexible User Input for Course Number \(Course History Search Page\)](#)

[Users can access Swagger endpoints](#)

[Users can access H2Console](#)

[Users can now Update Grade Info](#)

[Course history search output correction](#)

[Adding fixture for data from grade history api](#)

[When user uses a quarter dropdown, default quarter is END_QTR not START_QTR](#)

[Main Course Search page only accessible through the logo](#)

[Changed name of tab to Courses](#)

[Updated Backend Code to Spring Boot 3](#)

[Developers can run mutation test on a single class or package](#)

[Bug add course dialog allows adding course to the wrong schedule](#)

[Developers can delete PSCourse using psId and enrollCd](#)

[Grade history component](#)

[Highlight from hovering is hard to see](#)

[Grade history page](#)

[Fixed instructor search output order bug](#)

[Fixing location history output order](#)

[User Can Delete Sections from Personal Schedule Details Page](#)

[Better UI and UX in Main Search Page](#)

[Add Button Not Showing Up for Certain Lectures](#)