



BeachCS

Test Document

Authors:	Parth Chhasatiya, Shujoy Islam, Aaron Ramirez, Rios Rios
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Table of Contents

BeachCS	1
Table of Contents	2
Unit Level Testing	4
View Course Descriptions	4
View Degree RoadMap	4
View Masters	5
View Workshop & Workfair Calendar	5
Module Level Testing	6
Home Page Viewer	6
Course Explorer Page	7
Guides Page	7
Career Page	8
Crafting your Resume	8
Academics Page	9
Degree Roadmap Card	9
Programming Guides	10
Possible Interview Questions	10
Job Success Page	11
Conquering the Career Fair Page	11
Minor in Cyber Security Applications Page	12
Scheduling Classes Page	12
Ways to Study	13
Motivation	13
IDEs	13
Integration Level Testing	14
Interaction with MySQL	14
Email Confirmation (Reliability)	14
Interaction with Git repository	15
Interaction with interactive Roadmap	15
Interaction with cards appearing on the “Home” page	16
Systems Level Testing	17
Website Uptime	17
Website Recovery	17
Browser Compatibility	18
Database Integrity	19
Website Responsiveness	19

Acceptance Level Testing	20
Compare Multiple Courses using Course Cards	20
Feedback	20
Roadmap Usage	21

Unit Level Testing

[View Course Descriptions](#)

Course Info

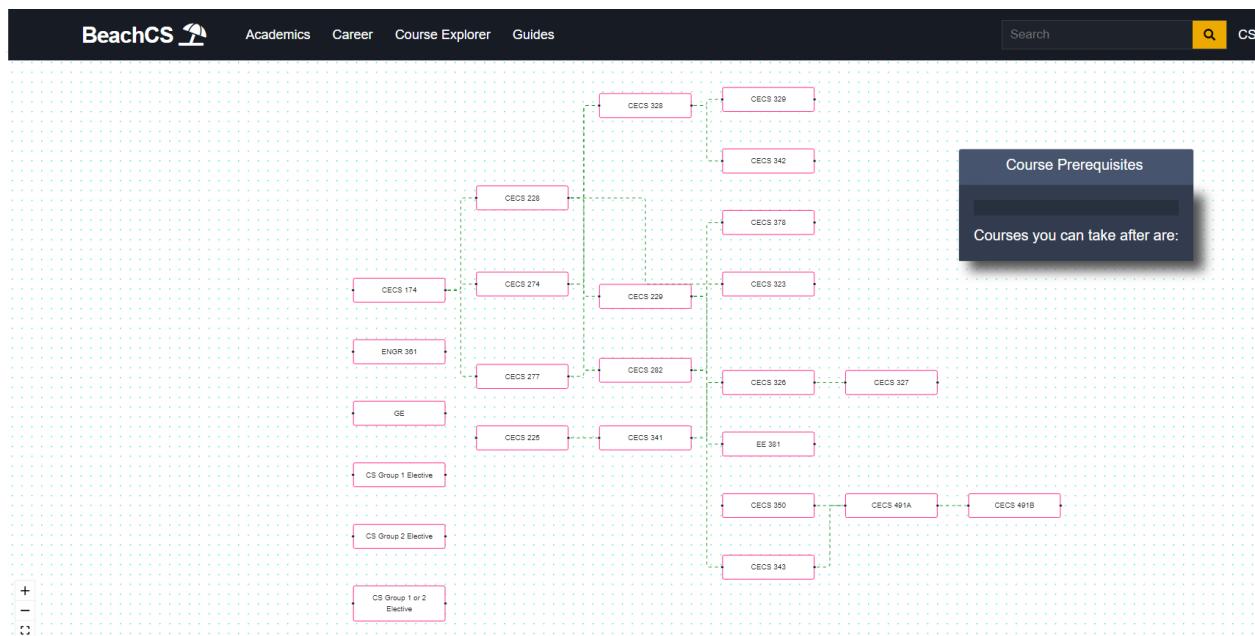
CECS 327

Introduction to Distributed Computing and Interprocess Communication. Networking Protocols. Client Server Paradigm. Peer to Peer Networking. Sockets and the Socket API. Distributed Objects. Coordination, Agreements and Distributed Transactions.

Prerequisites: CECS 326

Credits: 3

[View Degree RoadMap](#)



[View Masters](#)

GENERAL INFORMATION ▾

ADMISSION ▾

POLICIES ▾

ELECTIVES ▾

ADVANCED SYSTEMS ▾

SOFTWARE DEVELOPMENT ▾

For admission, these are the following requirements for graduate applicants:

- Have earned a bachelor's degree from an accredited institution
- Have been in good standing at the last institution attended
- Possess a grade point average (GPA) of at least 2.7 for the last 60 semester units (90 quarter units) attempted
- Optionally, submit a general Graduate Record Examination (GRE) score. (Highly recommended for International Students and students with a GPA below 3.0)

Students may be admitted on a conditional basis, subject to the requirement that they remedy any deficiencies subsequent to admission. Letters of recommendation are not required. There is no separate application for the department.

- **Transfer units:** Students may transfer up to 6 of the 30 units required for the MSCS degree, subject to approval of the CECS graduate advisor. Units earned through the College of Professional & International Education are considered transfer units. No transfer units may be used to fulfill the 21-unit graduate credit requirement.
- **7-year limit:** All requirements of the MSCS degree must be completed within seven years from the date the first course of the student's approved program was completed.
- **Probation:** Graduate students are placed on academic probation if they fail to maintain an overall grade-point average of at least 3.0 in all upper division and graduate level courses taken since admission to the degree program. Students who remain on academic probation for more than two consecutive semesters are subject to academic disqualification.
- **Graduation Writing Assessment Requirement Exam:** Student must demonstrate competency in writing skills as a requirement for graduation, by passing the Graduation Writing Assessment Requirement Exam (GWAR).

[View Workshop & Workfair Calendar](#)

BeachCS  Academics Career Course Explorer Guides

Search  CSULB Home

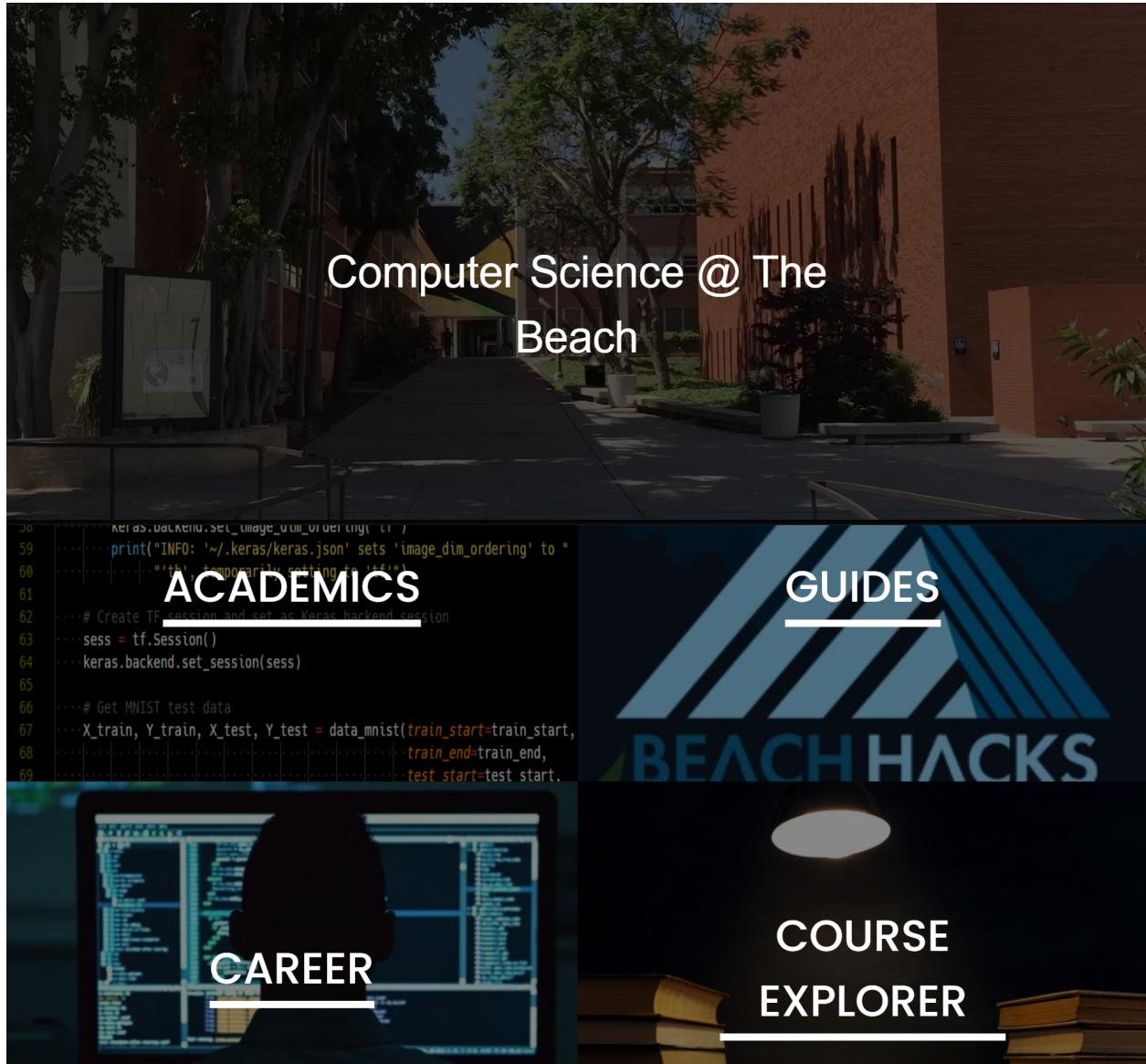
Home / Career / Workshop & Workfair Calendar

Today		Back	Next	May 2021					Month	Week	Day	Agenda
Sun	Mon	Tue	Wed	Thu	Fri	Sat						
25	26	27	28	29	30	01						
02	03	04	05	06	07	08						
09	10	11	12	13	14	15						
16	17	18	19	20	21	22						
23	24	25	26	27	28	29						
30	31	01	02	03	04	05						

WEBINAR: Job Search Strategies
WEBINAR: How to Write a Good Cover Letter
WEBINAR: Resume Writing
WEBINAR: Preparing for Your Job Interview
Just-In-Time Virtually

Module Level Testing

Home Page Viewer



Course Explorer Page

Course Explorer

For information on how to build your schedule, check out this interactive Road Map.

[BeachCS Road Map 2020](#)

Below are all CS courses available at CSULB.

* All courses listed under 'lower division' and 'upper division' are mandatory courses.

Lower Division

ENGR 101	ENGR 102	CECS 100	CECS 105	CECS 174	CECS 225	CECS 228
CECS 274	CECS 277	CECS 282	CECS 229	MATH 122	MATH 123	

Upper Division

CECS 323	CECS 326	CECS 327	CECS 328	CECS 341	CECS 342	CECS 343
ENGR 350	EE 381	ENGR 361	CECS 378	CECS 491A	CECS 491B	

Electives

Group One

CECS 419	CECS 444	CECS 445	CECS 448	CECS 449	CECS 451	MATH 323
----------	----------	----------	----------	----------	----------	----------

Group Two

CECS 450	CECS 453	CECS 470	CECS 475	CECS 476	
----------	----------	----------	----------	----------	--

Both

CECS 428	CECS 429	CECS 455	CECS 456	CECS 478	CECS 495	CECS 497
----------	----------	----------	----------	----------	----------	----------

Course Info
ENGR 101
Freshman orientation seminar on careers in engineering. Speakers from various fields illustrate opportunities and challenges in the engineering profession.
Prerequisites: Freshman standing or consent of instructor. (Pre/Co)requisite: Math 111 or Math 113 or Math 122
Credits: 3

Course Info
CECS 327
Introduction to Distributed Computing and Interprocess Communication. Networking Protocols. Client Server Paradigm. Peer to Peer Networking. Sockets and the Socket API. Distributed Objects. Coordination, Agreements and Distributed Transactions.
Prerequisites: CECS 326
Credits: 3

Guides Page

Student Affairs
Enhance your professional and personal growth at CSULB. Would you like to know more?

Show me

Clubs
Find clubs around the university and stay connected with fellow Sharks!

Find Clubs!

Tutoring Center
Need help? Click below to find tutoring support

CSULB TUTORING CENTER

Some helpful Links! ▾

Career Page

The screenshot shows the BeachCS website's career section. At the top, there is a navigation bar with links for Academics, Career, Course Explorer, and Guides. On the right side of the navigation bar is a search bar and a link to CSULB Home. Below the navigation bar, the page title "Career" is displayed in bold. A sub-header "A collection of tips on how to navigate career fairs, career opportunities, and much more!" follows. Under the heading "Guides", there is a list of four items: "Crafting your Resume", "Job Success", "Conquering the Career Fair", and "Workshop & Workfair calendar". At the bottom of the page, there is a footer bar with links for About, Contact, Sitemap, and Feedback.

Crafting your Resume

The screenshot shows the BeachCS website's resume guide page. At the top, there is a navigation bar with links for Academics, Career, Course Explorer, and Guides. On the right side of the navigation bar is a search bar and a link to CSULB Home. Below the navigation bar, the page title "Crafting your Resume" is displayed in bold. A sub-header "A well written resume can help get the attention of hiring managers that may eventually lead to a job offer. Here are a few key resume writing tips that will help you organize and design your resume" follows. Under the heading "Contact Information", there is a note stating "The beginning of your resume should include basic contact information about yourself. Including the following:" followed by a list of six items: Your name, Your email, Your phone number, LinkedIn username, Github username, and Personal website. Under the heading "Resume Content", there is a list of five items: Heading, Objective, Skills, Experience, and Education covered in detail. A note below states "Using a professional email, then a personal email would be best for your resume and make sure the number listed is the best way to reach you. Make sure you are contactable". Under the heading "Education", there is a note stating "Real world experience matters more than education in computer science. However, brainstorm what you did in school that might turn heads. Making a long list. Even something done around three years ago might dazzle an employer".

Academics Page

The screenshot shows the BeachCS website's Academics section. At the top, there is a navigation bar with links for BeachCS, Academics, Career, Course Explorer, and Guides. A search bar and a CSULB Home link are also present. Below the navigation, a breadcrumb trail shows 'Home / Academics'. The main content area has a title 'Academics' and a sub-section titled 'Guides'. It includes a list of links such as 'Applying to Graduate School (MS/PhD)', 'CECS Faculty', 'Minor in Cyber Security Applications', and 'Scheduling Classes'. At the bottom of the page, there is a footer with links for About, Contact, Sitemap, and Feedback.

Degree Roadmap Card

This image shows a Degree Roadmap Card for the course CECS 328. The card has a dark blue header with the title 'Course Prerequisites' in white. Below this, the course code 'CECS 328' is displayed in a large, light-colored box. The main body of the card is dark blue and contains the text 'Courses you can take after are:' followed by a bulleted list of courses: 'CECS 329' and 'CECS 342'.

Programming Guides

Welcome to Programming Guides!

Prolog reference ▾

Prolog is a logical and declarative programming language in which the program statements express the facts and rules about different problems within a system of formal logic.

```
?- message(M).  
M = 'Hello World'.
```

Need help with Prolog ... [Click Here](#)

C reference ▾

Python reference ▾

Python is a high level and interpreted language, and unlike most high level programming languages, Python does not need a compiler. Python is also one of the official programming languages used by Google.

```
msg = "Hello World"  
print(msg)
```

Need help with Python code ... [Click Here](#)

C++ reference ▾

Possible Interview Questions

Welcome Interview Question

Lets start with a warm up!

Write a function that returns the sum of two numbers.

Ex. value1 = 6 and value2 = 9
Output:15
`int sum(int value1, int value2)`

Question 1

Given an array a that contains only numbers in the range from 1 to a.length
find the first duplicate number for which the second occurrence has the minimal index.
If there is not such elements, return -1.

`int first_duplicate(int array_a)`

Examples

- For a = [8,4,6,2,6,4,7] Output = 6
- For a = [3,4,1,9] Output = -1

Constraints

- Should have a O(n) time
- Requires only O(1) space complexity

Job Success Page

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Home / Career / Job Success

How To Succeed In A New Job

What can you do to ensure you keep that job and are viewed in a successful manner? What you most need to remember is that the first few months on your new job really create the impressions people will have of you. So, make those first few months really count - show up every day trying to impress - be professional, hard working and dedicated.

Some ideas include:

Dress for the job. Make sure you dress professionally by examining what other successful people at the company wear to work.

Develop a plan for the first few months. Develop a plan for what you will do for those first days and months and stick to it. You can't do it all, instead develop some specific goals.

Remember that you were hired because you are needed. Your boss needs you to be successful so he or she can also be successful. So, think about your job as a way to help your boss. The same is true for your colleagues. Find out what their greatest pain points are - what they really need help with. Then pitch in and help them out, and learn from them.

Show great initiative - come to work early, stay late, ask colleagues and your boss what you can do. Roll up your sleeves to get the job done, no matter what it is. Do not wait for them to come to you. Go to them and show you are willing to do whatever it takes. This

Conquering the Career Fair Page

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Home / Career / Conquering the Career Fair

Conquering the Career Fair

Career fairs present an opportunity for you to interact with employers and showcase your skills. Since it can be daunting to present yourself in front of your potential employer, the following are some tips and tricks to help you succeed during the fair.

Clarify your goal

You should have a goal in mind when coming to the career fair, whether it is to find information about your job market or to seek an internship or co-op for the summer. This will help formulate a strategy for your interaction at the fair.

Research companies in advance

Reviewing the list of employers attending the fair before the event. Search and filter by industry, job type and more! Identify organizations that you want to talk to and make sure to visit them first when you arrive at the fair. Be confident and ask insightful questions.

Prepare your pitch

Since each employer only has a small window of time to interact with each student, prepare an "elevator pitch" introduction to make a positive and memorable impression. Practice your introduction with friends until you are comfortable with it.

Bring your resume

Minor in Cyber Security Applications Page

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Home / Academics / Cyber Security

Minor in Cyber Security Applications

Why cyber security minor?

There are many reasons for taking on the cybersecurity minor! The minor in cybersecurity is designed to provide students with cybersecurity skills, which can be an advantage for job seeking and career building, as well as a source of personal enrichment. Students graduating with a degree in computer science or computer engineering with a minor in cybersecurity could expect careers in software engineering, embedded systems engineering, or information systems management, with an emphasis on designing, developing, operating, or analyzing security features or subsystems. This minor is right for you! This minor consists of 4 required courses, and 2 additional courses that will let you go deep enough into an area of cybersecurity.

What are the requirements?

The requirements for the cybersecurity applications minor are fairly simple they consist of 4 required courses as follows:

- CECs 100 - Critical Thinking in the Digital Information Age (3 units)

Scheduling Classes Page

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Home / Academics / Scheduling Classes

Scheduling Classes

Planning your semester is a crucial study strategy that you need to develop. In fact, it's so important that you remain organized and productive to decrease stress levels will stay even throughout the semester, your grades will end up being higher, you will end up spending less total time.

To start, we can look at the core classes with the help of the [roadmap](#). The diagram will show the relationship between the core classes.

Overview

The core courses can be broken up into different tracks.

Core Programming Intensive

These classes teach the most fundamental CS concepts. Pay attention!

- CECs 100
- CECs 105
- CECs 174

Math related

Ways to Study

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Welcome to Study Guides!

Some tips to study effectively

- Get Organized**
Having a planner and entering homeworks, projects, test, and assignments can go a long way
- Pay Attention in class**
We know it is hard lol, but it is important to concentrate and avoid distractions.

Practice active listening by concentrating on what is being said and taking notes in your own words.
- Avoid distractions**
This one is a hard one, be aware of what distracts you in class and know how to steer clear of these distractions

If possible, avoid sitting next to friends if you know they will distract you.

Turn off your cell phone and again pay attention to the instructor
- Notes should be complete**
Write clear and complete notes that will help you process the information you are learning.

Motivation

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Welcome to Motivation Guides!



TED Your body language may shape who yo... Watch later Share

Watch on YouTube



TED How to make stress your friend | Kelly ... Watch later Share

Watch on YouTube



TED Denzel Washington - Without commit... Watch later Share

LIVE



TED How to use one paper towel | Joe Smit... Watch later Share

Watch on YouTube

IDEs

BeachCS  Academics Career Course Explorer Guides Search CSULB Home

Welcome to IDES!
Check out free useful software



Visual Studio

Free IDE, use to develop computer programs, websites, web apps and many school projects

Languages supported: C#, C, C++, Visual Basic

[Click here to learn more](#)



Visual Code

is a free source code editor for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring and embedded git.

[Click here to learn more](#)



Python

is an interpreted high-level general purpose language.

Python emphasizes code readability and great use of indentation.

[Click here to learn more](#)

Integration Level Testing

Interaction with MySQL

Connection Name
BeachCS

 Host: ip-10-2-0-45
Socket: /tmp/mysql.sock
Port: 3306
Version: 8.0.23 (Source distribution)
Compiled For: Linux (x86_64)
Configuration File: unknown
Running Since: Fri Mar 26 01:12:42 2021 (48 days 18:24)

[Refresh](#)

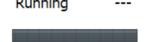
Available Server Features

Performance Schema:	<input type="radio"/> Off
Thread Pool:	<input type="radio"/> n/a
Memcached Plugin:	<input type="radio"/> n/a
Semi-sync Replication Plugin:	<input type="radio"/> n/a
SSL Availability:	<input checked="" type="radio"/> On

Server Directories

Base Directory:	/rdsdbbin/mysql-8.0.23.R3/
Data Directory:	/rdsbdbdata/db/

Server Status

 Server Status	Running	 CPU Load	---
 Traffic	4.84 KB/s	 Key Efficiency	0.0%
 Selects per Second	2	 InnoDB Buffer Usage	7.8%
 InnoDB Reads per Second	0	 InnoDB Writes per Second	1

Email Confirmation (Reliability)

What questions or feedback do you have?

1 response

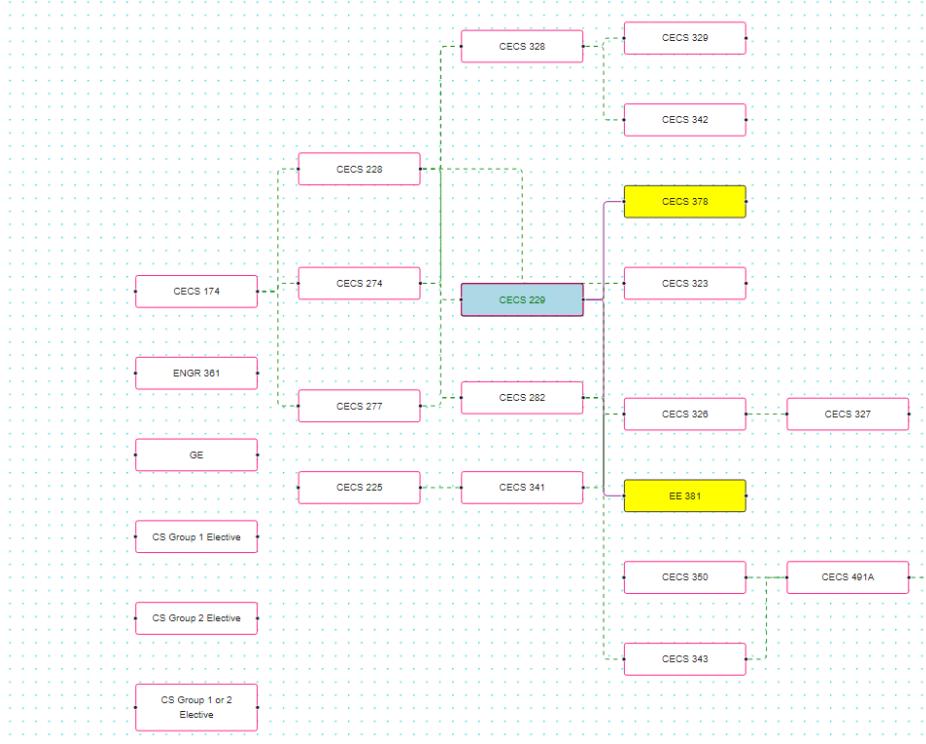
Will future courses be added to the site?

Interaction with Git repository

The screenshot shows the GitHub interface for the repository "Shujoyl / CSULB_Cecs_Wiki". The "Code" tab is selected. At the top, it displays "master" branch, 7 branches, 0 tags, and 289 commits. Below this is a list of commits:

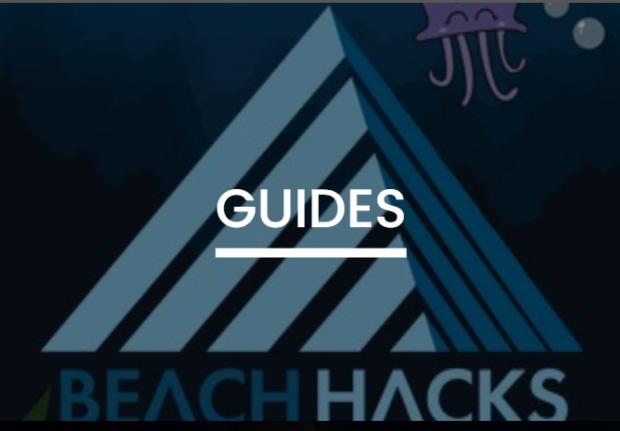
Commit	Message	Date
.vs	Took our csulb button bullet	9 days ago
vscode	Added npm start script	2 months ago
wiki-backend	run locally	21 days ago
wiki-prototype-one	Fixed CSS for Roadmap on static files	2 hours ago
.gitignore	Update .gitignore	9 days ago
Course ID numbers.txt	Create Course ID numbers.txt	6 months ago
README.md	Update README.md	7 months ago
package-lock.json	3/29/2021	2 months ago

Interaction with interactive Roadmap



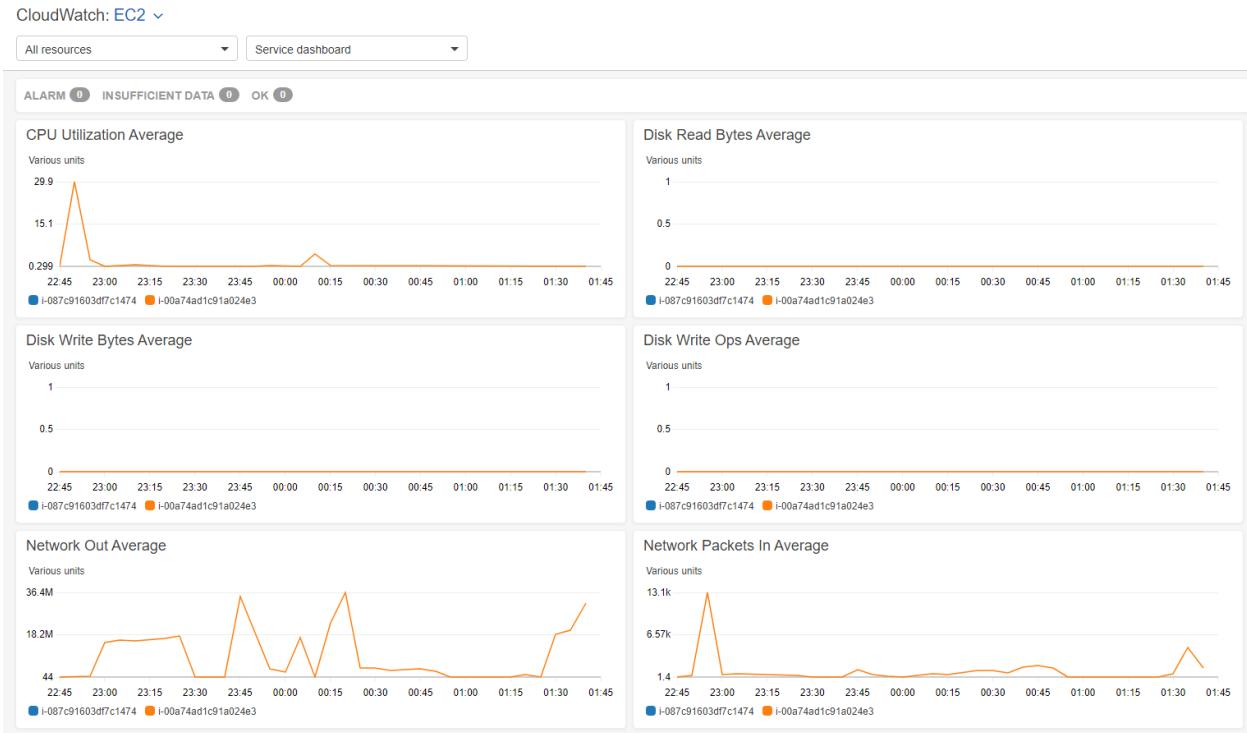
Interaction with cards appearing on the “Home” page

```
53  
54     uppercase_sample = 'ABCDEFGHIJKLMNPQRSTUVWXYZ'  
55     lowercase_sample = 'abcdefghijklmnopqrstuvwxyz'  
56     digit_sample = '0123456789'  
57     if keras.backend.image_dim_ordering() != 'tf' and count <= 100:  
58         keras.backend.set_image_dim_ordering('tf')  
59         print("INFO: '~/.keras/keras.json' sets 'image_dim_ordering' to "  
60             "'tf'" "temporarily setting to 'tf'")  
61  
62     # Create TF session and set as Keras backend session  
63     sess = tf.Session()  
64     keras.backend.set_session(sess)  
65  
66     # Get MNIST test data  
67     X_train, Y_train, X_test, Y_test = data_mnist(train_start=train_start,  
68                                                 train_end=train_end,  
69                                                 test_start=test_start.)
```



Systems Level Testing

Website Uptime



Website Recovery

Lab Data

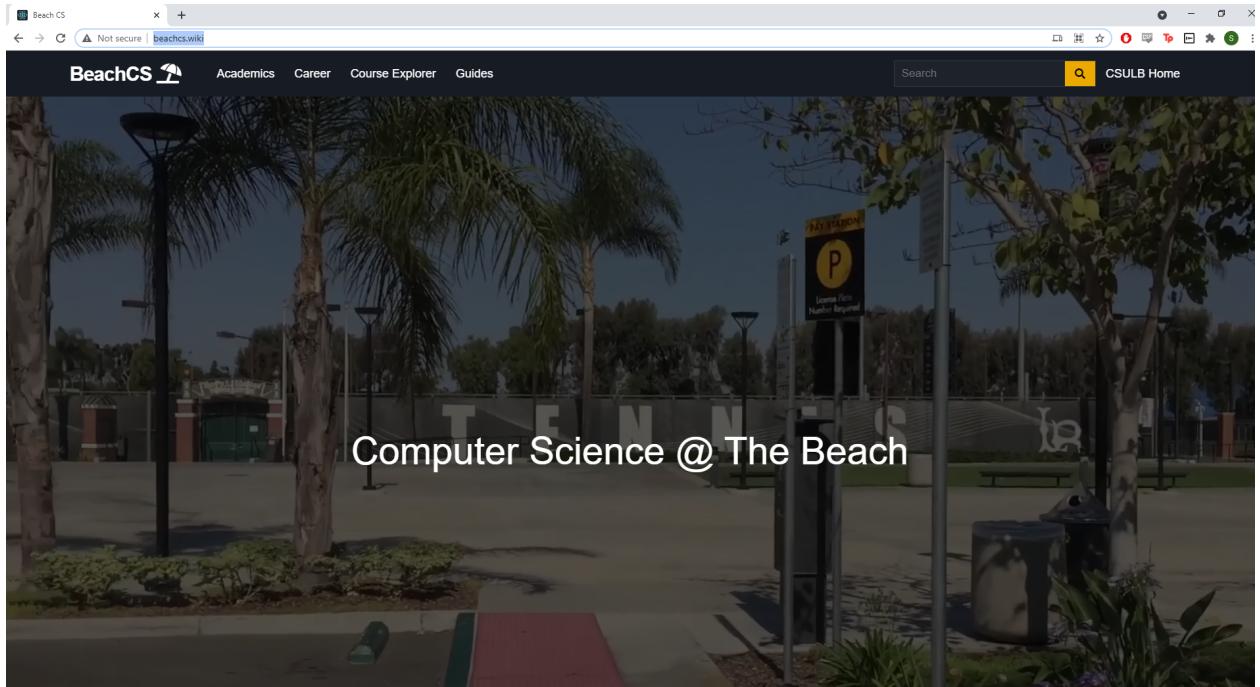


▲ First Contentful Paint	8.1 s	▲ Time to Interactive	8.1 s
▲ Speed Index	8.1 s	■ Total Blocking Time	310 ms
▲ Largest Contentful Paint	8.1 s	■ Cumulative Layout Shift	0.231

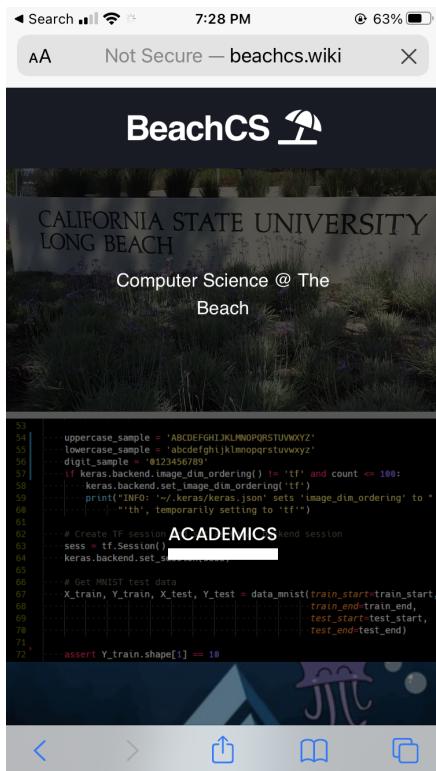
Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

Browser Compatibility

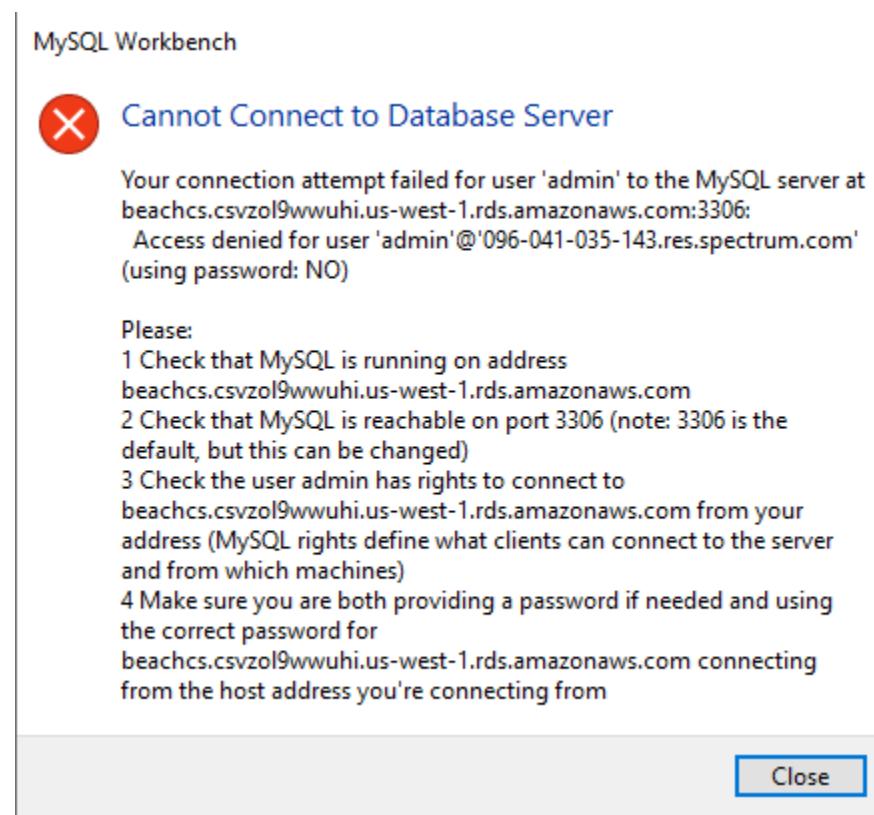
Chrome:



Safari:



Database Integrity



[Close](#)

Website Responsiveness



Name	Status	Type	Initiator	Size	Time
video-3.mp4	206	media	Other	(disk cache)	9.45 s
video-3.mp4	206	media	Other	(disk cache)	1 ms
video-3.mp4	206	media	Other	(disk cache)	8 ms
video-3.mp4	206	media	Other	(disk cache)	2 ms
video-3.mp4	206	media	Other	1.0 MB	9.03 s
guide1.a26a200f.jpg	304	jpeg	main.43029418.chunk.css	191 B	2.27 s
video-3.mp4	206	media	Other	(disk cache)	2 ms
video-3.mp4	206	media	Other	(disk cache)	1 ms
video-3.mp4	206	media	Other	(disk cache)	6 ms
video-3.mp4	206	media	Other	(disk cache)	91 ms
create	200	xhr	xhr.js:177	270 B	94 ms
selectCourse	304	xhr	xhr.js:177	219 B	145 ms

Acceptance Level Testing

Compare Multiple Courses using Course Cards

Course Explorer

For information on how to build your schedule, check out this interactive Road Map.

[BeachCS Road Map 2020](#)

Below are all CS courses available at CSULB.

* All courses listed under 'lower division' and 'upper division' are mandatory courses.

Lower Division



Upper Division



Electives

Group One



Group Two



Both



Course Info
ENGR 101
Freshman orientation seminar on careers in engineering. Speakers from various fields illustrate opportunities and challenges in the engineering profession.
Prerequisites: Freshman standing or consent of instructor. (Pre/Co)requisite: Math 111 or Math 113 or Math 122
Credits: 3

Course Info
ENGR 102
Development of skills and identification of strengths and weaknesses for success in a COE major.
Prerequisites: ENGR 101
Credits: 3

Feedback



Academics Career Course Explorer Guides

Send us your feedback or questions?

Your opinion is important to us. This way we can keep improving our website.

* Required

What questions or feedback do you have? *

Your answer

(Optional) Your email, to follow up

Your answer

Submit

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Google Forms

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Roadmap Usage

