

Course Syllabus

Instructor:

Kris Miller

Course Description

In this course, you will begin to develop the higher-level skills required of a professional programmer. In particular, you will learn object-oriented programming in C++, emphasizing good programming principles in the design and development of substantial programs. Topics include abstract data types, pointers, recursion, linked lists, and basic software engineering principles.

Course Prerequisites

CS 010A with a grade of C- or better; familiarity with C or C++ language.

Course Expectations

This course is online, so you must **check the course site daily**.

All lectures and labs will be hosted in zoom. You will be expected to participate in the live lecture and lab sessions by answering questions in zoom chat and zoom/Canvas quizzes as well as coding exercises within the zyBook.

Because your participation is required and includes coding exercises, you will need to connect to these zoom lectures by computer, not your phone.

Course Format

We will complete 2 course modules per week. We will complete 1 chapter in the course zyBook per module.

Required Course Materials

Programming in C++ -- UC Riverside CS 10B Summer 2022 zyBook

To subscribe:

1. Sign in or create an account at [learn.zybooks.com](https://learn.ucr.edu/courses/51928/assignments/syllabus)
2. Enter zyBook code: UCRCS010BMillerSummer2022
3. Subscribe

Course Grades


Scale

- 25% Participation/homeworks
 - 5% lecture participation
 - 5% zyBook Participation Activities (Readings)
 - 5% zyBook Challenge Activities
 - 5% zyBook LAB exercises
 - 5% lab attendance & participation (2 hr lab sessions)
- 75% Assessments
 - 20% zyBook PROGRAMs
 - 20% Midterm
 - 35% Final

Grades usually follow a 90/80/70/60 scale, with +/- grades.

Course Policies

Communication Plan

Please post all questions regarding course logistics and homework help in [Campuswire](https://campuswire.com/c/G40ABA495/feed)  (<https://campuswire.com/c/G40ABA495/feed>). You should also post any grading questions to Campuswire or questions on PROGRAMs where you need to post code. In that case, please post them to "Instructors & TAs". There is a good chance if you ask a question by email that should have gone to Campuswire, it may not get answered. You should only email me if you did not get the email from Campuswire detailing how to sign up.

Exams:

Must be taken *in-person*, at UCR, at specified times, or at an approved in-person proctoring facility near the same time. Students make arrangements and pay any fees at a proctoring facility, and instructor approval is required weeks before.

Midterm Date | Time | Location: Tuesday Aug 9 | 9am - 10:20am | TBD

Final Date | Time | Location: Friday Aug 26 | 3:30pm - 5:30pm | TBD

Late Policy

- zyBook Readings/Challenges/LABs - no points for anything completed after the deadline.
- zyBook PROGRAMs - up to 24 hours after deadline listed in Canvas. There will be a 20% penalty for late submissions.

Academic Misconduct

It is the responsibility of each student to be familiar with the definitions, policies, and procedures concerning academic misconduct. Please revisit our [Academic Integrity Policies and Procedures \(https://conduct.ucr.edu/policies/academic-integrity-policies-and-procedures\)](https://conduct.ucr.edu/policies/academic-integrity-policies-and-procedures) for more information. This site also defines misconduct, provides examples of prohibited conduct, and explains the sanctions available for those found guilty of misconduct.

CS 10B Collaboration Policy

Appropriate collaboration among students on zyBook activities and LAB assignments is **encouraged** (e.g., via Campuswire posts, during lab, in study sessions).

Collaboration of any kind on zyBook PROGRAMs and the midterm and final exams is **forbidden**. We pursue academic dishonesty cases vigorously and report cases to UCR's [Office of Student Conduct \(http://conduct.ucr.edu/policies/academicintegrity.html\)](http://conduct.ucr.edu/policies/academicintegrity.html).

For students that are repeating the course:

Turning in code you submitted in a previous course, even the same course, is an academic misconduct violation, and will be turned in to Student Conduct as such. Do not use (or even LOOK at) any of the code you submitted the previous time you took this course. Treat this course as if you did not take it before. In fact, I highly recommend you delete any code you submitted previously so you do not get tempted to look at it when working on the labs and programs this time around. I have seen students get an A the second time they took the class. Unfortunately, I have seen too many students actually do worse the second time taking the course. In every one of these cases where they did worse, it was because the student did not start over again from scratch.

For more information about plagiarism, see [Academic Integrity Policies and Procedures \(https://conduct.ucr.edu/policies/academic-integrity-policies-and-procedures#plagiarism\)](https://conduct.ucr.edu/policies/academic-integrity-policies-and-procedures#plagiarism).

Technology Requirements

Because this course takes place at least partially online (e.g., some of the office hours), you will need the following:

Hardware


- Access to a current Mac or PC (with a fast processor and speakers)
- Webcam and microphone (to participate in any video components, e.g. live sessions, remote proctoring, video presentations)

Software

- Windows 8.1 or OS 10.14 or above is recommended


- Please Note: Some software applications (such as Respondus LockDown Browser) are not supported by Chromebooks

Internet Connection

You will need a reliable internet connection. Test your internet speed using [speedtest.net](https://www.speedtest.net/)  (<https://www.speedtest.net/>). Recommended internet speeds:

- Ping response is less than 100ms
- Download speed is at least 10Mbps
- Upload speed is at least 2Mbps

Browsers

- Chrome or Firefox work best (avoid Safari)
- Make sure you are using the most [up-to-date browser](https://www.whatismybrowser.com/guides/how-to-update-your-browser/)  (<https://www.whatismybrowser.com/guides/how-to-update-your-browser/>).

If you do not have or cannot acquire these items, you can apply to the [Loan2Learn](https://keeplearning.ucr.edu/loan2learn) (<https://keeplearning.ucr.edu/loan2learn>) program to get a loaner device. Please keep me aware of any difficulty or delay in acquiring these devices.

For technology support, contact Bearhelp@ucr.edu (<mailto:Bearhelp@ucr.edu>).

A Note on Learning amidst COVID-19

The health and well-being of our campus community is the University's top priority. UCR students and employees experiencing respiratory illness (fever, cough, shortness of breath) or flu-like symptoms should call the [Student Health Services](https://studenthealth.ucr.edu/) (<https://studenthealth.ucr.edu/>) 24/7 hotline for support and guidance: 951-827-3031. Check the [UCR Environmental Health & Safety](https://ehs.ucr.edu/coronavirus) (<https://ehs.ucr.edu/coronavirus>) website often, and check back for [Campus Updates](https://ehs.ucr.edu/coronavirus/campus-news) (<https://ehs.ucr.edu/coronavirus/campus-news>).

Nobody can know exactly what will happen throughout the quarter, so we will approach each other with patience and understanding. The key is to **check the course site daily** and **remain flexible**.

During this time, it's critical for us all to take care of ourselves and others. Please ask for the help you need from your instructors and other people on campus.

UCR ACADEMIC POLICIES AND STUDENT SUPPORT

ITS Help and Student Technology Support

If you need assistance with your R'Mail or eLearn/iLearn accounts, getting on the UCR network, or any other services used by UCR students, contact [Bearhelp@ucr.edu \(mailto: Bearhelp@ucr.edu\)](mailto: Bearhelp@ucr.edu).

If you need assistance with your CS class account or are having problems connecting to JupyterLab, contact [systems@cs.ucr.edu \(mailto: systems@cs.ucr.edu\)](mailto: systems@cs.ucr.edu).

Reasonable Accommodation for Disabilities

UCR is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course should contact their professor as early in the semester as possible.

Students with disabilities must be registered with the Student Disability Resource Center prior to receiving accommodations in this course.

If you have a disability and you would like to make a request for reasonable accommodation, please see the Graduate Student Handbook or get in touch with the [Student Disability Resource Center \(https://sdrucr.edu/\)](https://sdrucr.edu/).

Adjustments for Pregnancy/Childbirth Related Issues

Should you need modifications or adjustments to your course requirements because of documented pregnancy-related or childbirth-related issues, please contact me as soon as possible to discuss your options. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Learn more about the rights of pregnant and parenting students by consulting the [Office of Diversity, Equity, and Inclusion \(https://diversity.ucr.edu/\)](https://diversity.ucr.edu/).

Title IX Resources

For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24/7, counseling services, mutual no contact orders, scheduling adjustments, and disciplinary sanctions against the perpetrator. Please see the Title IX website for more information. They can be reached at (951)827-7070. You can also [file a report \(https://titleix.ucr.edu/reporting\)](https://titleix.ucr.edu/reporting).

Student Needs

[Student Health Services \(https://studenthealth.ucr.edu/\)](https://studenthealth.ucr.edu/), [Counseling & Psychological Services \(CAPS\) \(https://counseling.ucr.edu/\)](https://counseling.ucr.edu/), Residential Life, Dining, and [R'Pantry \(https://basicneeds.ucr.edu/rpantry\)](https://basicneeds.ucr.edu/rpantry) are available to support students.

Religious Holidays

It is the policy of the University to excuse absences of students that result from religious observances and to provide for the rescheduling of examinations and additional required classwork that may fall on religious holidays without penalty. It is the responsibility of the **student** to make alternate arrangements with the instructor **at least one week prior to the actual date of the religious holiday**.

Copyright Policy

It is illegal to download, upload, reproduce, or distribute any copyrighted material, in any form and in any fashion, without permission from the copyright holder or his/her authorized agent. UCR expects all members of its community to comply fully with federal copyright laws.

Registration and Withdrawal

If you choose to withdraw from this course, you must complete the appropriate University form and turn the form in before the deadline. Deadlines are shown in the [Academic Calendar](https://registrar.ucr.edu/calendar) (<https://registrar.ucr.edu/calendar>), which is available from the Office of the Registrar.