



Syllabus for Programming Fundamentals

Course Information

Semester & Year: Spring 2022

Course ID & Section #: CIS-12-V3051

Instructor's name: Ward Nickle

Day/Time of required meetings: Online (asynchronous)

Course units: 4

Instructor Contact Information

Office location: Online

Office hours: Online by appointment

Phone number: n/a

Email address: ward-nickle@redwoods.edu

Catalog Description

An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application programming language and development platform.

Course Student Learning Outcomes

1. Design object-oriented computer programs using a variety of techniques and tools.
2. Create programs using basic logic and data structures.
3. Test applications with sample data.

Prerequisites/co-requisites/recommended preparation

CIS-1 and (Math-301 or Math 376) are the recommended preparations for this class, which means a fundamental understanding of how computers work and basic math skills.

Textbook

Title: Think Java, Version 6.13

Edition: 1st

Author: Downey and Mayfield

ISBN-13: 978-1492072508

The textbook is open-source and freely [available](#).

Required Software: BlueJ

This class uses the BlueJ integrated development environment (IDE). Go to www.bluej.org for system requirements and download installation information.

Accessibility

College of the Redwoods is committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or [Disability Services and Programs for Students](#) (DSPS). Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1st floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

If you are taking online classes DSPS will email approved accommodations for distance education classes to your instructor. In the case of face-to-face instruction, please present your written accommodation request to your instructor at least one week before the needed accommodation so that necessary arrangements can be made. Last minute arrangements or post-test adjustments usually cannot be accommodated.

Student Support

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

Evaluation & Grading Policy

All assignments will be submitted on Canvas. Your grade will be calculated according to the following weights.

Quizzes	15%
Labs	20%
Assignments	25%
Exams	40%

Participation

This class is an online course. It is VERY easy to fall behind in an online course. It takes more effort to stay on schedule in an online course than it does in a traditional face-to-face course. I highly recommend that you log on to Canvas at least 5 days a week to check announcements, post labs and assignments, and take quizzes and exams. There are strict deadlines posted for labs, assignments, quizzes, and exams that you must be aware of in order to avoid penalties.

There are no scheduled Zoom meetings. Previously recorded video tutorials are provided to support your coursework. In addition, recorded Zoom sessions from a previously Covid-affected face-to-face class are provided to further assist in your understanding of concepts and skills.

Students are expected to:

- do the assigned reading from the textbook
- as needed, research topics using the Web and/or supplemental textbooks
- as needed, download, install, and learn additional free software
- complete all assignments

- complete all labs
- take all quizzes
- take exams online

Course Policies

Exams

The exams are administered online, and you typically have a time window to complete the exam once it is open. Failure to complete an exam during the defined time window will result in a zero on that exam. There are no makeup exams. Be sure to give yourself plenty of time for technology and logistical problems when taking the exam. Please do not test this policy, you will be very disappointed with the results.

Quizzes

Quizzes are administered online weekly and are typically due on Thursday of each week. Failure to complete a quiz by the posted due date will result in a zero on that quiz. There are no makeup quizzes. Be sure to give yourself plenty of time for technology and logistical problems when taking the quiz.

Labs

54 hours of lab work is also required. Note: The lab work doubles the number of hours you will be working as compared to a typical non-lab 3 unit course. Be sure you understand the time commitment needed. The lab work will consist of exercises and tutorials requiring the use of a computer to demonstrate your understanding of the material presented. In addition to the technical requirements, labs are graded on proper documentation, neatness and completeness. All required elements must be present for full credit on a Lab. Labs will be due as noted in each week's Module.

Assignments

The assignments will consist of exercises that build on the knowledge and skills gained from doing the lab work and requiring the use of a computer to demonstrate your understanding of the material presented. In addition to the technical requirements, assignments are graded on proper documentation, neatness and completeness. All required elements must be present for full credit on an assignment. Assignments will be due as noted in each week's Module.

Late Assignments and Labs

We all have "emergencies" that arise from time to time. In recognition of this reality, I have a "no questions asked" (NQA) policy. Here's how it works. At the beginning of the semester, you will receive 3 NQA credits (virtually of course). Each credit is worth one week. If something comes up, and you need to turn in an assignment or lab late, you can use an NQA credit and turn it in up to one week late. A late assignment or lab with the proper number of NQA credits indicated will be graded as if it were handed in on time, no questions asked!

A late assignment or lab without an NQA will receive a zero! Late credit ***cannot be applied towards quizzes or exams*** and will not be allowed for the last lab or assignment.

Discussion Forum

Discussion forum participation is optional. Just as you would use a nice tone in the classroom, be sure to prepare thoughtful and friendly responses online. The forum discussions are an opportunity to help others with their understanding of the concepts covered. If you see a post where someone is struggling

to understand (or is incorrect), try to help them out. Find something positive to say about their effort, and then add your comments. Try to illustrate your explanation, rather than referring them to your post. Be polite, supportive, and encouraging. The online learning environment should be helpful and enjoyable!

One final note - anyone that acts offensively online will be subject to removal from the class. This includes using insulting (or foul) language or being demeaning in discussion forum posts.

Connection Issues

Problems with your internet connection or your computer will NOT result in an extension of the due date for any deliverable (lab/quiz/exam, etc.).

Disqualification/Excessive Absence Policy

You will automatically be disqualified (dropped from the roll) if you do not complete Quiz 1, Lab 1, and Assignment 1 by their respective due dates. In addition, you will be dropped from the course if you are not participating at least four days a week or failing the course due to a lack of participation resulting in missed quizzes, labs, assignments, discussions or exams.

Incomplete Grades

I do not give incompletes! However, if your place of residence is carried away by a tsunami while completing your final assignment, I may reconsider. This means an incomplete may be granted in extreme circumstances. You must be receiving at least a C grade at the time of the tsunami.

*This syllabus is subject to change with notice. Any changes will be announced and posted.