San Jose State University

CS 40 - Introduction to Computers

Kathleen O'Brien

Fall 2015

Class times and location: T TH 1200 - 1315 in MacQuarrie Hall 225
Office Hours: T TH 1500- 1515 in Duncan Hall 282 and on Piazza
(Take the elevator to the 2nd floor. Go through the door opposite the windows and down the stairs)
(let me know you are coming, or I might not be there)
Email: kathleen@laughton.com

Exams

Midterm: Oct 1 **(tentative)**
Final: Friday, Dec/11/15 0945-1200

Description

For students with little or no computer experience. Topics include: history of computing, user interfaces, computer applications, programming, hardware and software, computer networks.

Prerequisites

None

Textbook

INTRO.TO PROGRAMMING WITH GREENFOOT
AUTHOR: Michael Kolling
EDITION: 2/E
PUBLISHER: PEARSON
ISBN-13: 978-013-405429-2

Student Learning Outcomes

Upon successful completion of this course, students should be able to:

- do light duty programming
- gain an appreciation of what computer scientists do, and whether a CS major is right for you
- study the impact of computing on society (viruses, e-voting machines, use and abuse of artificial intelligence, etc. etc.)
- have fun programming with animations, images, sounds, and games

Course Mechanics

Laptops
> You will be required to bring a wireless laptop to all (!) classes and exams.

Wireless network access
> You use the same username/password as for my.sjsu.edu
> If you do not have a SJSUOne account: Go to SJSUOne at http://its.sjsu.edu/services/sjsuone/ to sign up.

Homework submission
> You will submit your homework and exams in Canvas.
> Homework is due at 1 AM on the due date but you will be given a grace period until 8 AM in the morning.
> If your Internet is down, find some other way to submit your work. No late work is accepted. Start early. You may not get any help at 3 in the morning.

Workload
> Success in this course is based on the expectation that students will spend, at least 6 hours per week for working on the homework and the programming assignments.

Course Requirements

Exams
> One in-class exams (50 points) Exams cannot be made up, except for reasons of illness, as certified by a doctor, or documentable extreme emergency. Makeup exams may be oral.

Programming Assignments
> An assignment alomost every week. Worth between 5 and 10 points, depending on the complexity. Schedule your time well to protect yourself against unexpected problems. I suggest you ignore the official deadlines and complete the assignments 24 hours earlier. Late work is not accepted, and there is no extra credit or makeup work. All homework is due at 1AM, but I will give you an grace period and accept assignments until 8AM. Do not ask for an additional extension because your Internet went down at 7:58.

Participation and labs
> I expect each student to be present, punctual, and prepared at every scheduled class. You will submit the in-class lab work to Canvas.

Final Project
> One project (50 points)

Time Spent
> Success in this course is based on the expectation that students will spend, for each unit of

credit, a minimum of forty-five hours over the length of the course for instruction or preparation/studying or course related activities

Additional Information

Piazza

- Have a question? Ask it on Piazza
- Have an answer? Submit it.
- You get a point for each question or answer.
- If you email me a question about the course material, I will repost it on Piazza and answer it there. You won't get a point for that.
- Only message me with personal and confidential questions.

Grading Policy

This class is graded ABC/NC

At least	Letter Grade
93	A
90	A-
87	B+
83	B
80	B-
77	C+
73	C
70	C-
67	D+
63	D
60	D-
59 and below	F

Note that "All students have the right, within a reasonable time, to know their academic scores, to review their grade-dependent work, and to be provided with explanations for the determination of their course grades." See University Policy F13-1 at http://www.sjsu.edu/senate/docs/F13-1.pdf for more details."

Assignment Weights

Homework	40%
Labs	10%
Midterm	30%
Final Project	20%

Miscellaneous Policies

Add Policy: I will not be able to add anyone this semester

Individual Work: All homework and exams must be *your own individual work*. It is ok to have general discussions about homework assignments, or read other material for inspiration. You may *never* copy anything from anyone without attribution, with these exceptions—you may copy from the textbook, the labs, or anything we do in class. For homeworks and exams, you may not copy anything from any other student at all, and you may not collaboratively produce results in pairs or teams.

Publicly Viewable Work: Your class work (including homework, exam, and project work) may be viewable by other students of this course. Your grades will not be viewable by others.

Copyright of Materials: All materials created by the instructor for this course, including lectures, handouts, homeworks, exams, solutions, projects, and so on, are copyrighted property of the instructor. You may transscribe or record lectures or copy course materials for the use of yourself and other students registered in this course. You may not sell or give transscriptions or recordings of lectures or copies of course materials to others without the prior written consent of the instructor.

University Policies

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU's policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See University Policy S90–5 at http://www.sjsu.edu/senate /docs/S90-5.pdf. More detailed information on a variety of related topics is available in the SJSU catalog, at http://info.sjsu.edu/home/catalog.html. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's [Catalog Policies](http://info.sjsu.edu/static/catalog/policies.html) section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the [Academic Calendars webpage](http://www.sjsu.edu/provost/services/academic_calendars/) at http://www.sjsu.edu/provost/services/academic_calendars/. The [Late Drop Policy](http://www.sjsu.edu/aars/policies/latedrops/policy/) is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the [Advising Hub](http://www.sjsu.edu/advising/) at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

[University Policy S12-7](http://www.sjsu.edu/senate/docs/S12-7.pdf), http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:

Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.

You need to request this permission in writing.

Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.

Academic Integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The [University Academic Integrity Policy S07-2](http://www.sjsu.edu/senate/docs/S07-2.pdf) at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](http://www.sjsu.edu/studentconduct/) is available at http://www.sjsu.edu/studentconduct/.

The University emphasizes responsible citizenship and an awareness of ethical choices inherent in human development. Academic honesty and fairness foster ethical standards for all those who depend upon the integrity of the university, its courses, and its degrees. University degrees are compromised and the public is defrauded if faculty members or students knowingly or unwittingly allow dishonest acts to be rewarded academically. This policy sets the standards for such integrity and shall be used to inform students, faculty and staff of the university's Academic Integrity Policy.

The San José State University Academic Integrity Policy requires that each student: 1. Know the

rules that preserve academic integrity and abide by them at all times. This includes learning and abiding by rules associated with specific classes, exams and course assignments. 2. Know the consequences of violating the Academic Integrity Policy. 3. Know the appeal rights, and the procedures to be followed in the event of an appeal. 4. Foster academic integrity among peers.

Attendance:

University policy F69-24 states that "Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading."

Campus Policy in Compliance with the American Disabilities Act:

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu /president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.

Tentative Schedule for CS40 Fall 2015

Day			Lesson	Joy code video	Lab due	Homework due
1	Thurs	20-Aug	Lesson01 -Intro			
2	Tues	25-Aug	Lesson2 install software		lab1	
3	Thurs	27-Aug	Lesson 3 Intro to Greenfoot	JoyOfCode #3	lab2 - dolphin	homework 0
4	Tues	1-Sep	Lesson 4 work on hwk 2			homework 1 (asetroid)
5	Thurs	3-Sep	Lesson 5 start trick-the-turtle	JoyOfCode #4, 5, 6	lab3 trick#1	Homework 2 (Little-crab)
6	Tues	8-Sep	Lesson 6 predator	JoyOfCode #7, 8, 9	lab4 predator	2b
7	Thurs	10-Sep	Lesson 6B keyboard	JoyOfCode #10	lab5 keyboard	
8	Tues	15-Sep	Lesson 7 -your own work on hw 4	JoyOfCode #11		

9 Thurs	17-Sep	Lesson 8 open source			Homework 3 due (add to a scene)
10 Tues	22-Sep	Lesson 9 sound	JOC #12, 13, 14	lab6 sound	Homework 4 due
11 Thurs	24-Sep	Lesson 10 moving food / counter	JOC 15, 16	lab7 food and counter	Homework 5 due
12 Tues	29-Sep	Lesson 11 open source			
13 Thurs	1-Oct	work on midterm			Homework 6 due
14 Tues	6-Oct	Computer History			
15 Thurs	8-Oct	bouncy ball 1 change image	JOC 17	lab 8	
16 Tues	13-Oct	bouncy ball 2 -mouse	JOC 18		Homework 7 due
17 Thurs	15-Oct	bouncy ball 3 draw image	JOC 19 & 20		midterm due
18 Tues	20-Oct		JOC 21& 22		
19 Thurs	22-Oct	Internet		Lab FTP	
20 Tues	27-Oct	bouncy ball animation	JOC 23		Homework 8 Web
21 Thurs	29-Oct	making smoke	JOC 24		Homework 9
22 Tues	3-Nov	bouncy ball 4 text	JOC 25 & 26		Homework 10
23 Thurs	5-Nov	bouncy ball 4 counter	JOC 27	Lab 8 text	Homework 10B
24 Tues	10-Nov	Breakout	JOC 28		
25 Thurs	12-Nov	Breakout	JOC 30	Lab 9 blocks	
26 Tues	17-Nov	finish breakout	JOC 31	lab 10 breakout finished	
27 Thurs	19-Nov	Electronic voting			description of project
28 Tues	24-Nov	Timing& pretty loops	JOC 29 & 32		
Thurs	26-Nov	No class			
30 Tues	1-Dec	Work on project			
31 Thurs	3-Dec	Work on project			

| 32 Tues | 8-Dec | Start final presentatios | Final project due |

| Final | Fri Dec 11 945 |