

CSI 201 – Computer Science I – Fall 2019

Professor: Shaun D. Ramsey, Ph.D. (Dr. Ramsey with he/him/his pronouns)

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Office: DUNN N106a

Office Hours: TR 12:45 - 1:45pm, W 3:30-4:30 (or by drop-in and appointment)

QSC Drop-In: M 6-7pm, Th 4-6pm in DUNN N103 (Based on last semester – may change)

Class meetings: MWF 11:30 and 12:30PM in DUNN N103

Text: Online! Subscribe to zyBooks through canvas (not directly to their website)

Cost is around \$77

Web: <http://shaunramsey.com/201>

Overview and Advising: We will explore the fundamentals of computer programming to develop a foundation for understanding the problems and solutions of computer science. At the end of the course we should be able to design algorithms for solving novel problems, explain step-by-step how a program works when it does run, translate an English description into code and correct/debug a computer program to desired results. Learning to become a good programmer requires practice and failure. You should start assignments early to give yourself the opportunity to have mistakes and to ask questions. This class uses the many small programs philosophy to learning how to program. Thus, you have many small programs to write every week.

Suggestions: Get into a group. You may point out programming errors and discuss design with others, but all code must be of your own creation as that is the only way to learn. Copying the code of another might help you pass an assignment, but your ability with programming will definitely reveal itself during the examinations. So, do the work! Participate and actually complete the book activities. You'll be a better programmer and do better on the exams because of it! Visit the drop-in hours. They are there for you and run by students.

Grade Breakdown:

Exam I:	15%
Exam II:	15%
Final Exam:	20%
Final Project:	20%
Zybooks Labs:	20%
Attention, Attendance, Participation, Classwork and Citizenship:	10%

Failing the first exam with a score below 50%, or having an assignments score below 50% by the end of any exam period will constitute failure in the course. Working hard from the beginning is critical and the first weeks lay a foundation which is required for the remainder of the course. I provide no scale for points to letter grades as I use collections and distributions to set these.

Exams: Our tentative exam dates are: 9/20 and 10/25 with a finals during finals week.

Attendance: Attendance is mandatory in this course. On your sixth absence in a MWF course or your fourth absence in a TTh course, you automatically fail the course. As a matter of courtesy, you are expected to notify Dr. Ramsey before class describing the reason of your absence. You must be present on the day of an exam or you will receive a 0. There is no distinction between excused and unexcused absences. It is quite likely that I will email you to discuss the reasons you have missed the class, but it is ultimately your duty to keep track of your absences and to contact me. Missing a class may result in missed classwork and/or quizzes. There are no make-up quizzes or classwork. It is your responsibility to obtain assigned homework, announcements and class notes from a classmate. Coming late (or leaving early) to class will also count against you. In this case, every two late arrivals and departures (lates) count as an absence. Missing more than 15 minutes of a class counts as a full absence. Thus, for MWF, you fail the course with 12 lates or 6 absences or any mix of the two that add up to 6. Examples are: 2 lates and 5 absences, 4 lates and 4 absences, 6 lates and 3 absences, and so on. In addition, attendance is a portion of your grade as described in the grade breakdown.

Lateness: As a general rule, late assignments receive a grade of 0. I encourage you to do the assignments! We learn this material by doing it!

Accommodations: If you have an accommodation that has been reported to the college, please let me know as soon as possible so I can work to meet your accommodation. Please notify me of any necessary accommodation at least two weeks prior to the requirement so we can make it happen. If you suspect you might need an accommodation, I recommend that you speak with OAS as soon as possible.

Academic Honesty: You are always subject to the Honor Code of Washington College. Always sign the honor code on materials that you hand in (including homework and exams). All work must be your own. When handing in any assignment, including a program, you are required to cite every reference, including web pages. Failure to do so will be considered plagiarism. For exams in this course, you will be expected to sign the honor code and you may be audio, image, or video recorded.

Career Center: It is important to utilize all the resources available to you. The Career Center is a wonderful center dedicated to helping you. You can receive mock interviews there, attend a career fair, and even attend a workshop on graduate school admissions. For more information on these programs and other ways to connect with the Center for Career Development, please contact Nanette Cooley at ncooley2@washcoll.edu.

Quantitative Skills Center: The Quantitative Skills Center (QSC) is a free tutoring service provided to the students of Washington College. The QSC is located on the main floor of the Miller Library. The QSC has drop in hours and appointment hours available to fit all schedules. The appointment sessions are one-on-one with a student tutor. Drop in hours will usually be with a small group and you can feel free to come and go as you please during the

available times. See the top of this syllabus for the CS times! Please go to the Quantitative Skills Center website, washcoll.edu/offices/quantitative-skills-center, for more information or contact the Director, Kerrin Ehrensbeck by email at kehrensbeck2@washcoll.edu.

Counseling Center: We all experience stressful and difficult events as a normal part of life. As your instructor, I am not qualified to serve as a counselor, but I am a useful ear. So please feel welcome to open a discourse with me. I may guide you to a counselor and if you do need an actual counselor, Washington College offers counseling services on-campus that are available to you at no cost. All counseling services provided are completely confidential and in no way connected to your academic record. I strongly encourage you to take advantage of this valuable resource. Please contact The Office of Counseling Services at 410-778-7261, or email: vanderson2@washcoll.edu to schedule an appointment.

General Tentative Schedule:

Week 1	Operators/Vars (Chapter 1, Chapter 2)
Week 2	Conditions (Chapter 3)
Week 3	Loops (Chapter 4)
Week 4	Review and Exam 1
Week 5	Vectors and Arrays (Chapter 5)
Week 6	Vectors and Arrays (Chapter 5 continued)
Week 7	User-Defined Functions (Chapter 6)
Week 8	User-Defined Functions (Chapter 6 continued)
Week 9	Review and Exam 2
Week 10	Streams (Chapter 7)
Week 11	Objects and Classes (Chapter 8)
Week 12	Classes and Workshops (Chapter 8)
Week 13	Pointers (Chapter 9)
Week 14	Recursion (Chapter 10) - preview
Week 15	Final Project Presentations

Note: This document and other resources are available from the website listed above.