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## CSI 201 – Computer Science I – Spring 2018

**Professor:** Shaun D. Ramsey, Ph.D. (Dr. Ramsey he/him)

**Email:** sramsey2@washcoll.edu (preferred contact method)

**Office:** DUNN N102

**Office Hours:** W 10:30 - 11:20, Tu 3-4pm, F 2:30-3:30

( or by drop-in and appointment )

**Tentative QSC Drop-In Hours:** Tu 7-8pm, Th 4-5pm in DUNN N103

**Class meetings:** 201-10 MWF 12:30-1:20PM DUNN N103

201-11 MWF 1:30-2:20PM DUNN N103

**Text:** Online Textbook called zybooks: Make an account at learn.zybooks.com

Then enter zyBook code: WASHCOLLCSI201RamseySpring2018

Cost is \$77

**Web:** <http://shaunramsey.com/class/18SPRING/201>

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**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 will have roughly one graded assignment each week. You should start assignments early to give yourself the opportunity to have mistakes and to ask questions. Lab activities are always due the Friday of the week in which the chapter is assigned. Chapters 5 and 6 have two labs, one for each week. Labs 1-3 are due at the end of the second week. A complete schedule is on the website.

**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 (if you are not caught), but your ability with programming will definitely reveal itself during the examinations if this is how you get by homework. Do the participation and actually read the book. You'll be a better programmer and do better on the exams because of it!

### Grade Breakdown:

Exam I:	20%
Exam II:	20%
Final:	25%
Zybooks Labs:	30%
Participation, Classwork and Citizenship:	5%

**Exams:** Our tentative exam dates are: 2/16, 3/30 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 (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.

**Grading:** I do not handle late assignments. Late assignments receive a score of 0.

**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 webpages. 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.

**General Tentative Schedule:**

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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 - Lab 2)
Week 7	User-Defined Functions (Chapter 6)
Week 8	User-Defined Functions (Chapter 6 continued - Lab 2)
Week 9	Review and Exam 2
Week 10	Recursion (Chapter 7)
Week 11	Streams (Chapter 8)
Week 12	Objects and Classes (Chapter 9)
Week 13	Pointers (Chapter 10)
Week 14	Review and Final Exam

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**Note:** This document and a tentative week by week schedule are available from the website listed above.