CS 202 Computer Science II – Fall 2018

General Information

Contact Your Instructor
Name: Geoffrey Exoo
Email: ge@cs.indstate.edu
Phone: (812) 237-2153
Office: Root Hall, A-140A

Lecture, Exam, Office Hours
Lecture: TR 11:00 – 11:50 am Root Hall A- 017
          WF 11:00 – 11:50 am Federal Hall 012
Final Exam: Dec 13, 10:00 am Also check the Office of the Registrar's exam schedule

Instructor Office Hours: MWF 12:15-1:00, 3:00-3:15

Teaching Assistants:
Dhananjaya Vasipalli (dvasipalli@sycamores.indstate.edu)
Gage Golish (ggolish@sycamores.indstate.edu)

Office: Root Hall, A-138D
Office Hours: WF 12:00 – 1:00 pm

GA Tutoring: See http://cs.indstate.edu/info/labs.html

Website: https://cs.indstate.edu/~ggolish/CS202

Prerequisites
A grade of C or better in CS 201. See http://cs.indstate.edu/info/courses.php

Recommended and/or Required Text
- Introduction to Algorithms by Cormen, Leiserson, Rivest, and Stein
- The C Programming Language by Kernighan and Ritchie
- Online courses/tutorials - MIT course - Practical Programming in C , How to Think Like a Computer Scientist, C++ Version - an online textbook, CS 50: Intro to CS I at Harvard - has videos, lecture notes, Reference on C and C++, The C Programming Language, C Programming Tutorial, Fresh2fresh C Tutorial

Course Announcements

Announcements regarding the course will be made both during class and via email to your @sycamores.indstate.edu email address. You should regularly check this email account or have it forwarded to an account that you check regularly.

Classroom conduct

You may not use cell phones, iPods/music players, etc. during class. You should be civil and respectful to both the instructor and your classmates, and you should arrive to class a few minutes before the scheduled lecture so you are ready for lecture to begin on time. You may use your computer during class if you are using it to follow along with the examples that are being discussed. You may not check email, facebook, work on other courses, etc. during class.

Course Description

This course is a continuation of CS 201. It involves a deeper study of programming languages, but emphasizes programming in a particular language. Topics include algorithm design and analysis, data structures, recursion, threads, network programming, graphics, security, and ethics. Prerequisites – C or better in CS 201

Course Outline

An outline of topics covered in this course is given at CS Courses Basic Information

Learning Outcomes

C programming and debugging, data structures understanding (can explain lookup/insert/delete for each DS, work small examples on paper, know running times) and coding (can finish partially complete DS code, write new functions to traverse DS).

Expected Amount of Work

If you take this class seriously and get what you should out of it, some weeks you will likely be spending around 15 hours/week or more on the class. The students who get A's in their CS courses and have an easy time finding jobs do spend this much time on this course. Not everyone would need to spend this much time and not all weeks will be the same, but you should plan on putting in whatever time it takes.

This is the foundation for the rest of CS, so it definitely pays off to do your best here. **Note - this is your most important class, by far (for CS majors).**

Note - your classes should be more important than your part-time job.

Grading and Assignments

The students of this course have the following responsibilities: read assigned readings before lecture, attend lecture, complete homework assignments, take in-class quizzes, take exams, and complete a project.

All assignments are posted in a pdf file on the class web page. Each such file indicate the number of points, the due date and time, and the location where your assignment should be saved. Failure to save your work in the correct location will be viewed as equivalent to not doing the work.

The "Programming Assessment" portion of the CS course policies applies to this class. You must pass the end-of-semester programming asessment to earn a grade of C or higher in the course. See http://cs.indstate.edu/info/policies.html#assessment for details.

CS Course Policies

Note that this course follows all standard CS course policies. In particular check the CS course policies related to - cheating/plagiarism, attendance, missing exams. See http://cs.indstate.edu/info/policies.html for details.

Late Homeworks

All homework assignments will be given a preferred due date. Assignments can be turned in past the preferred due date, but any assignments turned in late may have their value multiplied by 70% (so the highest grade you can get on a late assignment is 70%). Any assignment discussed in depth in class are effectively closed and no credit will be given.

Start Homeworks Early

We suggest attempting a homework assignment the day it is given, or the day after, so that if you have a problem you can ask early. If you continue to have problems in trying to complete the assignment, you will have time to ask again. Many of the homework assignments require thought and problem solving, which takes "time on the calendar" not just "time on the clock". By that we mean that spending two hours on 3 consecutive days may be more productive than trying to spend 6 hours at once on the assignment.

Grade Cutoffs

We try to design homework assignments and exams so that a standard cutoff for grades will be close to what you deserve. After the first exam a grade will be created in Blackboard called "Letter Grade" that is what your letter grade would be if the semester ended today. Initially, I will likely assign the following grades: 93-100 A, 90-93 A-, 87-90 B+, 83-87 B, 80-83 B-, 77-80 C+, 73-77 C, 70-73 C-, 67-70 D+, 63-67 D, 60-63 D-, 0-60 F

Our goal is that the different grades have the following rough meaning.
A+/A
You can do *all* the assignments *on your own*.
B+/A-
You understand nearly everything, and should be all set to use this knowledge in other courses or in a job.

B-/B

Most things you understand very well and a few you might not (more towards the former for a B and more towards the latter for a C).

C/C+

Learned enough and have the minimum skills to move on in the subject.

D+/C-

You did put some effort in, and understand many things at a high level, but you haven't mastered the details well enough to be able to use this knowledge in the future.

D-

Students will normally *not* get an F if - you attend 80% of the lectures, complete some of the assignments up through the end of the course, and get nearly half of the problems on the final exam correct.

F   Normally, students that get an F simply stopped doing the required work at some point.

Blackboard

The course has a blackboard site. Click here to go to blackboard. You should see this course listed under your courses for the current term. The blackboard site is only used for giving you your grades (go to the course in blackboard, then click "My Tools", and then "My Grades"). All course content, schedule, etc. is kept in this google doc (which you are currently viewing).

Academic Integrity

Follow the standard CS course policies in terms of what is and is not allowed on assignments: http://cs.indstate.edu/info/policies.html

Please ask the instructor if you have doubts about what is considered cheating in this course.

Special Needs / Student Disabilities

Indiana State University recognizes that students with disabilities may have special needs that must be met to give them equal access to college programs and facilities. If you need course adaptations or accommodations because of a disability, please contact us as soon as possible in a confidential setting either after class or in my office. All conversations regarding your disability will be kept in strict confidence. Indiana State University's Student Support Services (SSS) office coordinates services for students with disabilities: documentation of a disability needs to be on file in that office before any accommodations can be provided. Student Support Services is located on the lower level of Normal Hall in the Center for Student Success and can be contacted at 812-237-2700, or you can visit the ISU website under A-Z, Disability Student

Services and submit a Contact Form. Appointments to discuss accommodations with SSS staff members are encouraged.

Once a faculty member is notified by Student Support Services that a student is qualified to receive academic accommodations, a faculty member is obligated to provide or allow a reasonable classroom accommodation under ADA.

Disclosures Regarding Sexual Misconduct

Indiana State University fosters a campus free of sexual misconduct including sexual harassment, sexual violence, intimate partner violence, and stalking and/or any form of sex or gender discrimination. If you disclose a potential violation of the sexual misconduct policy I will need to notify the Title IX Coordinator. Students who have experienced sexual misconduct are encouraged to contact confidential resources listed below. To make a report or the Title IX Coordinator, visit the Equal Opportunity and Title IX website: http://www.indstate.edu/equalopportunity-titleix/titleix.

The ISU Student Counseling Center – HMSU 7th Floor | 812-237-3939 | www.indstate.edu/cns
The ISU Victim Advocate – Trista Gibbons, trista.gibbons@indstate.edu
                                    HMSU 7th Floor | 812-237-3939 (office) | 812-230-3803 (cell)
Campus Ministries - United Campus Ministries | 812-232-0186
                              http://www2.indstate.edu/sao/campusinistries.htm
                              www.unitedcampusministries.org | ucmminister2@gmail.com
                              321 N 7th St., Terre Haute, IN 47807

For more information on your rights and available resources
http://www.indstate.edu/equalopportunity-titleix/titleix