Spring 2019

Syllabus CS 500

Programming Fundamentals

General Information

Contact Your Instructor

Name: *Robert Sternfeld*
Email: *robert.sternfeld@indstate.edu*
Phone: *812-237-2137*
Office: Root Hall, *A-140F*

Lecture, Exam, Office Hours

Lecture: *MWF 8:00-8:50 RO A017*

Exam: *May 10, 8:00AM.* Also check the [Office of the Registrar's exam schedule](...)

Instructor Office Hours: *TTh 11:00-11:50; W 9:00-9:50;*
  I will usually be available in the mornings after class and 1-3 in the afternoons.

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

Prerequisites
  Graduate standing.
See http://cs.indstate.edu/info/courses.php
 A 500 level course cannot be taken as part of the MS program if you have completed the same 400 level course at ISU. For example, if you completed CS 451 as an undergrad, you **cannot** take CS 551 as an MS student and count it towards the degree.

Recommended and/or Required Text

A nice book (not required): The C Programming Language by Kernighan, Ritchie

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. **Do not count on electronic information** to keep you informed, you must come to every class meeting to learn what is going on.

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

The official description of this course from the catalog is:

Review of undergraduate topics in Computer Science including Data Structures, Computer Architecture, and Computer Organization. Review of a computer programming language that students can expect to use in advanced courses.

Course Outline

Expressions, variables, functions, assignment	2 weeks
Loops, decisions	2 weeks
Arrays, sorting and searching	4 weeks
Linked lists, binary search trees, hash tables	6 weeks

Learning Outcomes

Be able to use data structures and associated strategies to solve a variety of programming problems. Be able to pass the programming assessment.

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 **_10-15_ 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.

Quizzes   *10%*

Programs   *10%*

Tests   *60%*

Final Exam   *20%*

The averages for quizzes, programs, tests, and the final exam are calculated as percentages.The course grade is computed from these values using the percents above.

The "Programming Assessment" portion of the CS course policies applies to this class. You must pass the end-of-semester programming assessment 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

0 points for late work, but please ask me. I might make an exception.

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.

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
Standard language included in the syllabi for ISU courses.

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

Standard language included in the syllabi for ISU courses.

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