

# CS-500 Programming Fundamentals

## Fall 2020 - Syllabus and Information

### Contact Your Instructor

**Name:** *Robert Sternfeld*

**Email:** *robert.sternfeld@indstate.edu*

**Office:** Root Hall (RO), A-180 (literature/linguistics wing, but NO ACCESS; use Teams)

**Course Website:** <http://cs.indstate.edu/~sternfl/500/s2.html>

### CS Server Instructor/Class Directories

**cs.indstate.edu:** */u1/h0/sternfl/500*

### Lecture

TR 8:00am - 9:15 am Root Hall (RO) A017 (Mostly virtual; come to 017 for help)

### Final Exam:

T 12/08/2020 8:00am

### Instructor Office Hours

M-F 10:00am - 11:00am virtual on Teams

The above are my official office hours. If those times will not work for you, you may contact me so we can set up an alternative time to meet.

### Computer Resources:

CS Unix Lab:

Root Hall (RO), A-015 (basement, just west of west stairwell, first door on the left).

Graduate Assistant Tutoring:

See <http://cs.indstate.edu/info/labs.html>

### Restrictions:

Graduate standing

### Texts

Any book on the C language

*The C Programming Language* by Kernighan and Ritchie, Prentice Hall

The majority of this course will be run through the course website linked at the top of this document. Bookmark this page. The course website contains announcements, a schedule of due dates, course assignments, lecture materials, and even links to exams and projects. You should check this site daily if possible, but twice a week at minimum to ensure that you do not miss an assignment.

## **Course Announcements**

Announcements regarding the course will be posted under the *Announcements* section of the course website. Announcements may also be made during class (if applicable), via Mattermost Chat, or via your ISU sycamores email account. You should regularly check your email account or have it forwarded to an account that you check regularly. The *Announcements* section of the course website should be the most comprehensive list of any and all course activity, so check it regularly.

## **Classroom Conduct**

You may not use cell phones, iPods/music players, etc. during class unless otherwise stated. If I can hear your headphones that means you are being disruptive, and if I have to ask you to turn down a device more than once, you may be asked to leave that day's lecture. 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 social media or work on other courses, etc. during class. Do not consume or share any inappropriate material at any time. Be professional so that you may become a professional.

## **Ethics**

The intentional or malicious use of systems, software, or application settings, to undermine another student's educational experience will not be tolerated and may warrant extreme academic consequences on par with plagiarism. Malicious tampering with user accounts, settings, or systems of students, instructors, or any other group or individual will be penalized similarly.

## **Course Information**

**Course Number:** CS-500

**Course Name:** Programming Fundamentals

**Course CRN:** section 001: 51683

**Credit Hours:** 3.0

### **Course Catalog Description:**

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

08/17-09/04	Loops, nested loops, processing character input
09/07-09/21	functions; Linked Lists
09/28-10/23	Binary Trees
10/26-11/20	Bit operations Hash tables

## Learning Outcomes

Be able to construct and use elementary data structures.  
Pass the programming assessment

## Course Work

Your grade will be determined by how well you do your course work. There are four types of class work.

**Class participation.** I will keep track of your answers to my questions. Each student should participate at least once a week. A good bit of class participation will be virtual using Teams software that you can download from [portal.office.com](https://portal.office.com).

**Reading.** Before class you will use a browser to read assigned sections of the class web site. No points, but what you learn will help you with class participation, with quizzes and tests, and with making Web pages.

**Homework.** You will log onto the cs server, [cs.indstate.edu](https://cs.indstate.edu), and work on your assignments by writing c programs and functions. These files should be in your home directory. The Web page or Website of the assignment can be viewed with your browser.

## Quizzes, Tests, Final Exam.

Item	Percent
class participation	10%
homework	10%
quizzes (combined)	10%
Test 1	20%
Test 2	20%
Final	30%

There will be about one quiz a week. No quiz in a week with a test. There will be 2 tests during the semester. A quiz lasts about 15 minutes. A test will last 75 minutes. Most quizzes and tests will be on-line.

## 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 Work

Late work may well not be graded. Get Help: Contact me via email or chat if you need help. **If you begin to struggle or fall behind, contact me as soon as possible. Do not wait until the end of the semester; that will be far too late!**

## 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 7<sup>th</sup> Floor | 812-237-3939 | [www.indstate.edu/cns](http://www.indstate.edu/cns)

The ISU Victim Advocate – Trista Gibbons, [trista.gibbons@indstate.edu](mailto:trista.gibbons@indstate.edu)

HMSU 7<sup>th</sup> Floor | 812-237-3939 (office) | 812-230-3803 (cell)

Campus Ministries - United Campus Ministries | 812-232-0186

<http://www2.indstate.edu/sao/campusministries.htm>

[www.unitedcampusministries.org](http://www.unitedcampusministries.org) | [ucminister2@gmail.com](mailto:ucminister2@gmail.com)

321 N 7<sup>th</sup> St., Terre Haute, IN 47807

For more information on your rights and available resources

<http://www.indstate.edu/equalopportunity-titleix/titleix>