

Intro to Computer Science

CS-1300

Fall 2020 Section 01 4 Credits 08/12/2020 to 12/05/2020 Modified 08/13/2020

Description

This course introduces two fundamental aspects of computer science--abstraction and design--as students learn to develop programs in a high-level programming language. Students will study and implement a variety of applications, including graphics and scientific simulations. The course assumes no prior background in programming or computer science.

Requisites

Prerequisites:

Corequisites:

Contact Information

Instructor: Ms. Alexandra Young

Office: TLC 2204

Email: ayoung@westga.edu

Phone: 678-839-6651

Office Hours:

Monday & Wednesday: 11:00am - 12:00pm

Monday & Wednesday: 5:00pm - 6:00pm

Also available by google chat and appointment any time

Meeting Times

Location: TLC 1211

Class Times:

Monday & Wednesday: 8:00am - 9:15am

Friday: 8:50am - 9:40am

Materials

How to Think Like a Computer Scientist - Interactive Edition - <https://runestone.academy/runestone/static/thinkcspy/index.html>

- This book is a free online textbook.

- You will need to register to use the textbook for this course. The course name you must use is: CS1300Fall2020

Outcomes

- Trace a simple computation expressed as an algorithm or as a program.
- Translate a simple algorithm into programming code.
- Develop simple programs using functional abstraction.
- Develop code that can make decisions.
- Develop code that can iterate.
- Compile, test, and debug simple programs.

Evaluation

Class Participation	5%
Quizzes	5%
Lab Exercises	8%
Homework Assignments	16%
Project 1	5%
Project 2	7%
Project 3	9%
Exams (best 3 of 4, 15%)	45%

Assignments

Exams

There will be four exams given. Dates of the exams are given in CourseDen. The lowest exam score will be dropped. There will not be any makeup exams for any reason. If something comes up that you miss an exam then drop that one.

Exams cover the fundamentals of the material covered. They test your ability to:

- Define terms and describe concepts.
- Translate specifications into programming code.
- Interpret specifications and code.

Extrapolate from specifications and code to program behavior

Projects

Three projects let you apply what you have learned in lecture, assigned readings and lab and homework exercises.

- Must be done individually.
- Help is only available from the csX lab assistants and Instructor. You may not receive help from other students or other individuals outside of the class.
- Don't wait until the last minute

Homework assignments

Homework assignments will allow you to apply and extend concepts and techniques covered in lecture, the assigned readings, and the lab exercise.

- Help will be available from the instructor and csX lab assistants.

Lab exercises

Lab exercises allow you to learn concepts and techniques covered in lecture and the assigned readings by providing you a guided activity to work through and complete.

- Lots of help will be available from the instructor and csX lab assistants.

Quizzes

Quizzes assess the basic comprehension of concepts covered in lecture and assigned readings.

- Quizzes must be done individually with no help from any other individuals.
- You may take each quiz up to three (3) times, but the highest attempt will count.

Schedule

Please check the course site on CourseDen for the course schedule under Introduction Module.

* Course Policies and Resources

Class participation

Class participation will consist of responding to discussion during lectures / or online and actively participating in in-class activities.

Attendance policy

- I will be taking attendance with a seating chart on Mondays and Wednesday.
- There will not be any makeup projects or tests.
- I realize that you may have to miss a test because of an illness, a family problem, a religious holiday, an extracurricular event, a work conflict, or any number of other reasons. That's why I allow you to drop one test grade.
- If you must miss a test, no problem: just drop that one.
- You may drop only one test grade.
- There will be no dropped quizzes, labs, homework or project grades.

Late work

- All quizzes, labs, homework and projects are due at the scheduled time. I d**NOT** accept late work.
- It is the student's responsibility to make sure the correct file is submitted. It is suggested that you verify that you have submitted the correct file.
- Under no circumstance will any work be accepted via email.

Institutional Policies

Academic Support

Accessibility Services: Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If a student needs course adaptations or accommodations because of a disability or chronic illness, or if he/she needs to make special arrangements in case the building must be evacuated, the student should notify his/her instructor in writing and provide a copy of his/her Student Accommodations Report (SAR), which is available only from Accessibility Services. Faculty cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact [Accessibility Services \(https://www.westga.edu/student-services/counseling/accessibility-services.php\)](https://www.westga.edu/student-services/counseling/accessibility-services.php).

Center for Academic Success: The [Center for Academic Success \(http://www.westga.edu/cas/\)](http://www.westga.edu/cas/) provides services, programs, and

opportunities to help all undergraduate students succeed academically. For more information, contact them: 678-839-6280 or cas@westga.edu.

University Writing Center: The [University Writing Center \(https://www.westga.edu/writing/\)](https://www.westga.edu/writing/) assists students with all areas of the writing process. For more information, contact them: 678-839-6513 or writing@westga.edu.

Online Courses

UWG takes students' privacy concerns seriously: technology-enhanced and partially and fully online courses use sites and entities beyond UWG and students have the right to know the privacy policies of these entities. For more information on privacy and accessibility for the most commonly used sites, as well as technology requirements visit the [UWG Online \(https://uwgonline.westga.edu/\)](https://uwgonline.westga.edu/) site.

Students enrolled in online courses can find answers to many of their questions in the [Online/Off-Campus Student Guide \(http://uwgonline.westga.edu/online-student-guide.php\)](http://uwgonline.westga.edu/online-student-guide.php).

If a student is experiencing distress and needs help, please see the resources available at the [UWG Cares \(http://www.westga.edu/UWGCares/\)](http://www.westga.edu/UWGCares/) site. [Online counseling \(https://www.westga.edu/student-services/counseling/index.php\)](https://www.westga.edu/student-services/counseling/index.php) is also available for online students.

Honor Code

At the University of West Georgia, we believe that academic and personal integrity are based upon honesty, trust, fairness, respect, and responsibility. Students at West Georgia assume responsibility for upholding the honor code. West Georgia students pledge to refrain from engaging in acts that do not maintain academic and personal integrity. These include, but are not limited to, plagiarism, cheating, fabrication, aid of academic dishonesty, lying, bribery or threats, and stealing.

The University of West Georgia maintains and monitors a confidential Academic Dishonesty Tracking System. This database collects and reports patterns of repeated student violations across all the Colleges, the Ingram Library, and the School of Nursing. Each incidence of academic dishonesty is subject to review and consideration by the instructor, and is subject to a range of academic penalties including, but not limited to, failing the assignment and/or failing the course. Student conduct sanctions range from verbal warning to suspension or expulsion depending on the magnitude of the offense and/or number of offenses. The incident becomes part of the student's conduct record at UWG.

Additionally, the student is responsible for safeguarding his/her computer account. The student's account and network connection are for his/her individual use. A computer account is to be used only by the person to whom it has been issued. The student is responsible for all actions originating through his/her account or network connection. Students must not impersonate others or misrepresent or conceal their identities in electronic messages and actions. For more information on the University of West Georgia Honor Code, please see the [Student Handbook \(https://www.westga.edu/administration/vpsa/handbook-code-of-conduct.php\)](https://www.westga.edu/administration/vpsa/handbook-code-of-conduct.php).

UWG Email Policy

University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student's responsibility to check his or her email.

Credit Hour Policy

The University of West Georgia grants one semester hour of credit for work equivalent to a minimum of one hour (50 minutes) of in-class or other direct faculty instruction AND two hours of student work outside of class per week for approximately fifteen weeks. For each course, the course syllabus will document the amount of in-class (or other direct faculty instruction) and out-of-class work required to earn the credit hour(s) assigned to the course. Out-of-class work will include all forms of credit-bearing activity, including but not limited to assignments, readings, observations, and musical practice. Where available, the university grants academic credit for students who verify via competency-based testing, that they have accomplished the learning outcomes associated with a course that would normally meet the requirements outlined above (e.g. AP credit, CLEP, and departmental exams).

HB 280 (Campus Carry)

UWG follows University System of Georgia (USG) guidance: http://www.usg.edu/hb280/additional_information#
(http://www.usg.edu/hb280/additional_information)

You may also visit our website for help with USG Guidance: <https://www.westga.edu/police/campus-carry.php>
(<https://www.westga.edu/police/campus-carry.php>)

Mental Health Support

If you or another student find that you are experiencing a mental health issue, free confidential services are available on campus in the [Counseling Center](#). Students who have experienced sexual or domestic violence may receive confidential medical and advocacy services with the Patient Advocates in [Health Services](#). To report a concern anonymously, please go to [UWGcares](#).

ELL Resources

If you are a student having difficulty with English language skills, and / or U.S. culture is not your home culture, specialized resources are available to help you succeed. Please visit the [E.L.L. resource page](#) for more information.

COVID-19

Proctored Exams/Online Instruction: Students should be aware and plan ahead for the possibility of having to complete all courses and/or exams online or in a proctored environment. This means talking with your instructors about what minimum technical requirements (software and hardware) will be required should your class move online or a student's personal needs dictate. This also includes making plans for internet access at whatever location participation may occur.

Virtual or in-person proctored exams, if your instructor should require them, may result in an additional cost to the student. Please discuss these details with your instructor or see the information provided here.

Face Coverings: Effective July 15, 2020, University System of Georgia institutions, including the University of West Georgia, will require all faculty, staff, students, and visitors to wear an appropriate face covering while inside campus facilities/buildings where six feet social distancing may not always be possible. Face covering use will be in addition to and is not a substitute for social distancing.

Face coverings are not required in campus outdoor settings where social distancing requirements are met. Anyone not using a face covering when required will be asked to wear one or must leave the area.

Reasonable accommodations may be made for those who are unable to wear a face covering for documented health reasons.

Student FAQs: For more information about UWG COVID-19 guidance for students visit the [Student FAQ webpage](#)
(<https://www.westga.edu/student-services/health/coronavirus-info/return-to-campus/students-faq-return-to-campus.php>).