Augusta University ▪ School of Computer and Cyber Sciences

Principles of Computer Programming I
CSCI 1301 C/D
Fall 2020

Instructor: Neea Rusch
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Lecture Dates: August 10, 2020 – December 2, 2020
Final Exam Date: December 8, 2020

Lecture: AH E152 or synchronized remote lectures on Microsoft Teams
Mondays 5:30 – 6:45 pm
Wednesdays 5:30 – 6:45 pm

Lab: AH E365 or Microsoft Teams
Mondays 7:00 – 8:50 pm
Wednesdays 7:00 – 8:50 pm

Course Description

A rigorous study of the principles of computer programming with emphasis on problem solving methods which result in correct, well-structured programs. Other topics: an introduction to data representation, data types and control structures, functions, and structured data types.

Learning Outcomes

Students who successfully complete this course will be able to:

1. Perform standard program Input and program Output using the keyboard and the monitor
2. Declare and use user-defined variables, and constants using the appropriate data types
3. Declare, define, and call user-defined functions
4. Write and evaluate expressions using arithmetic, relational and logical operators
5. Control the flow of program execution using the appropriate sequential, selection, and repetition statements
6. Define, create and manipulate arrays
7. Understand and implement classes and objects

By the end of this course, students will be able to solve computer-programming challenges using correct, well-structured applications written in the C# programming language. Students will have a basic knowledge and comfort using control structures, object-oriented design, classes, methods, properties, data types, and data structures. The student also will develop computational thinking skills and practices.

Format and Procedures
CSCI 1301 is an academically rigorous four (4) credit hour course consisting of lecture and laboratory portions: both are required to succeed. Lectures consist of discussion focused on concepts and principles of computer programming. Laboratory will be devoted to hands-on practice and experiments.

The initial lab exercises assume no previous programming experience. Exercises increase in complexity and level of challenge as the course progresses. All programming exercises are designed to complement the lecture material.

Homework assignments will assist students in making sure they understand class expectations and the content of the lecture, as well as to practice their coding and problem solving skills. The progression of the students will be regularly tested and assessed through quizzes and tests. Regular participation in lectures and laboratory sessions is a baseline for success in the course.

Student Expectations
- Read this entire syllabus carefully
- Participate actively in all course activities
- Complete homework assignments: read your notes before starting the homework assignment, make sure you understand it completely before considering it done
- Work through each lab and make sure you understand the theoretical concepts

General Class Rules
- Attendance is not mandatory; however, you are strongly encouraged to attend every lecture and lab. You are encouraged to come to class on time and stay until the end of the lecture.

- You are responsible for all course material, and your decision to attend lectures, do the assigned reading, and coursework. I do not repeat lectures or provide notes for those who miss class. Synchronized lectures may be recorded for asynchronous viewing.

- It is the student's responsibility to initiate a withdrawal before midterm, but I reserve the right to withdraw a student that missed half of the quizzes and tests.

- A student not withdrawn from a course who stops attending class is subject to receiving a grade WF or F.

- Quiet chat and mutual help are acceptable, sharing solutions is forbidden. You may verbally discuss your general approach and solution strategy. Do not share files, show your code to a fellow student, or dictate what to type.

- All coursework is individual coursework. Identical or similar programs turned in by two or more students receive a grade of zero.

- Any violations of the AU Academic Honesty Policy will be investigated and reported.

Grading
Students will be evaluated using different types of evaluation:

1. Homework assignments will be given during the semester: they are not expected to be handed back, and won't be graded. Quizzes with questions taken or inspired from homework and lab assignments will be given.
2. There will be two exams held during the regular semester.
3. The final exam will take place during the exam period.

Your grade will be computed as follows:

Quizzes (×5)	10 %
Exam 1	25 %
Exam 2	25 %
Final Exam	40 %

Course Grade Scale

A	**B**	**C**	**D**	**F**
90 – 100 %	80 – 89 %	70 – 79 %	65 – 70 %	Below 65%

I do not curve individual examinations. At the end of the course, the class average is calculated to determine if an overall scaling of grades is necessary.

Exam Absence
There will be no makeup quizzes or exams. Exam absences must be coordinated with me prior to the exam. Under certain circumstances and with prior permission, I may grant you permission to count your Final Exam grade as a missed exam grade. Note that this allowance is available only with my prior permission and is only available to replace one missed exam. Unexcused missed exams will result in a zero grade. Any student missing the final exam without a documented excuse (brought to me or to the Dean of Student Life), or who has not taken action to withdraw will receive a grade F. In case of a documented emergency at the time of the final, the student may be allowed to receive a grade I.

Hardware Requirements
You will need access to a desktop or laptop computer that includes at minimum a web browser. Sufficient screen size and physical keyboard are necessary for programming.

Options:
- Use your personal computer (recommended option)
- Visit one of the Computer Labs that are accessible on campus,
- Use the lab reserved for students enrolled in CSCI / AIST / MS-IMS class, in UH room 131

Instructions on how to install and configure the software will be given during the first lab.

Academic Accommodations & Assistance
I am your first point of contact for any questions regarding the content of this class, but many other resources are available:

- For tutoring resources, consult Academic Success Center (or "ASC"). Tutoring is available for Computer Science on the first floor of University Hall. You can schedule appointments at https://augusta.campus.eab.com.
- Testing & Disability Services can help accommodate this class. Contact Testing and Disability Services (Galloway Hall; 706.737.1469; www.augusta.edu/tds/) for more information and/or to initiate the process for accessing academic accommodations.
- Student Counseling & Psychological Services ("SCAPS") is here to assist students with a variety of personal, developmental, and mental health concerns.
- Student Assistants – Tim Cuny and Aaron Ray will be course assistants throughout the semester. You can email them directly to request additional tutoring session and help with any course material.

Course Schedule
Detailed and current course schedule is available on D2L, see: Content > Course Overview > Course Schedule or click this link.

SYLLABUS ADD-ON: COVID-19 REQUIREMENTS

The University has implemented specific requirements to minimize exposure to COVID-19 and support the safety of all during the pandemic. These requirements apply to all persons on campus (faculty, staff, students, and visitors). These requirements are subject to change. Visit https://jagwire.augusta.edu/coronavirus/ and https://www.augusta.edu/reopening/ for the latest details.

Face coverings:

*All persons must wear an appropriate face covering while inside campus facilities/buildings, including classrooms, regardless of the size of the space. The face covering must fit closely and fully cover the nose and mouth. Such coverings must be used in addition to—not as a substitute for—social distancing. If a medical condition prevents you from wearing a face covering, you may provide documentation to request an accommodation through Testing and Disability Services (**706-737-1469** or tds@augusta.edu), and must show proof of the accommodation when asked.*

Social distancing:

All persons must maintain at least six (6) feet of separation from others. This distance should be maintained at all times and in all spaces, indoors or out, including classrooms, except where closer proximity is brief and logistically unavoidable (e.g. elevators, hallways). Keep your distance, do not gather in groups, and avoid crowded spaces. Sit only in designated areas in classrooms or similar spaces, and do not move seats or desks in classrooms or common spaces.

Proper hygiene:

All persons should wash hands thoroughly and often with soap and water (for at least 20 seconds) or hand sanitizer (containing at least 60% ethanol or 70% isopropanol). Avoid direct contact with high touch surfaces (doorknobs, light switches, campus equipment, devices, vending machines, etc.) and avoid sharing devices, books, pens, or other learning aids with others.

Personal disinfection supplies:

All persons are responsible for disinfecting their own workspaces before and after use, including desktops, seats, and any shared equipment. Students, faculty, and staff are responsible for providing their own supplies for this purpose. Used supplies should be disposed of properly.

COVID-19 reporting.

*Your role is critical to protect the safety of our entire AU family. Any student who is exhibiting symptoms of COVID-19 may be required to leave class and seek medical attention at Student Health Services (at **706-721-3448**) immediately. Do not come on to campus if you have any symptoms of COVID-19.*

For more information, please reference the Student FAQ's:
https://my.augusta.edu/reopening/faq

Faculty Workplace Adjustment needs requires a change to course delivery mode:

The faculty member teaching this class meets the CDC's definition of higher risk for COVID-19, and has requested and received approval for an alternate work arrangement. This alternate arrangement requires that the course be delivered fully on-line. If taking this course in an online format does not align with your preferences or needs for the fall term, you should contact your academic advisor to identify other sections.

Faculty Workplace Adjustment that require face covering to be worn in a classroom*:*

The faculty member teaching this class meets the CDC's definition of higher risk for COVID-19, and has requested and received approval for an alternate work arrangement. This alternate

arrangement requires that all students who take this class in-person with this faculty member wear a face covering. If a medical condition prevents you from wearing a face covering, an alternate face shielding or additional physical distancing should be employed. If these expectations for this section cannot be met, you should contact your academic advisor to identify other sections.

Where to go for more information about COVID-19?

- *Augusta University COVID-19 resources*
  - Campus Reopening: www.augusta.edu/reopening
  - Welcome Back information for students: www.augusta.edu/welcome-back
  - COVID-19 resources on Jagwire https://jagwire.augusta.edu/coronavirus/
  - Frequently Asked Questions for students: *https://my.augusta.edu/reopening/faq*
- *Guidance on symptoms and getting tested:*
  - Free virtual screenings: www.augustahealth.org/expresscare/covid-19-virtual-screening
  - AU Health System COVID-19 Hotline: **706-721-1852**
  - Student Health Clinic: 706-721-3448 or www.augusta.edu/shs/