ASU
College of Science & Engineering

Instructor: Mrs. Beth Niehues
E-mail Address: bniehues@angelo.edu
Office Phone: 325-486-5429 (leave a message)
Office: MCS 205C
Office Hours: By appointment
Class Times: Online

Course Description
The concepts and properties of algorithms for solving numerical and non-numerical problems. Introduction to computer and programming systems, including the development, debugging, and verification of programs, representation of data, computer characteristics and organization.

Course Goals
The goal of this course is to master the basics of computer programming using the C++ language. This is a first course in C++ programming.

Student Learning Outcomes
When you complete this course, you should be able to:
1. Explain the basic syntax of C++ programming language,
2. Create, compile, link, and run a program using the Microsoft Visual Studio integrated development environment,
3. Construct a program using one or more of the following structures: sequence, selection, and repetition,
4. Demonstrate the use of functions and arrays,
5. Solve problems and create solutions using C++ language.

Course Delivery
This is an online course with learning resources and supplemental materials posted in Blackboard.

Required Materials
Textbook: Gaddis, T. (2018). *starting out with C++ From Control Structures through Objects (9th Edition),* Pearson, Book Only: ISBN 9780134498379
Online Subscription: Online zyLabs (a subscription is $30 and will last until Feb 8, 2021):
1. Click on your zyBooks link in your learning management system
   (Do not go to the zyBooks website and create a new account)
2. Subscribe
Software:
1. Microsoft Visual Studio 2019
   - Available on the machines in the MCS computer labs.
   - You can download Microsoft Visual Studio Community 2019 free of cost from Microsoft. Details will follow when class starts.
2. Web browser for zyBooks
3. Respondus Lockdown Browser (download is available through Blackboard)
Blackboard: You are required to study all the PowerPoint slides, videos, and lectures posted on Blackboard.
Technology: You must have access to an adequate computer or laptop (Chromebook is insufficient) with a webcam and Internet connectivity to participate in the class. Remote access to exams will be through Respondus Lockdown Browser and will be video recorded via Respondus Monitor. For best results, use an Ethernet cable to connect to your Internet source instead of relying on Wi-Fi. ASU

computer labs are available for your use. A table describing supported browsers can be viewed on the Blackboard support site.[1]

COVID Related Requirements

Face Coverings: The Texas Tech University System has implemented a mandatory Facial Covering Policy[2] to ensure a safe and healthy campus experience. Current research on the COVID-19 virus suggests that there is a significant reduction in the potential for transmission of the virus from person-to-person by wearing a mask/facial covering that covers the nose and mouth areas. Because of the potential for transmission of the virus, and to be consistent with the University's requirement, students on campus are to wear a mask/facial covering. Observing safe distancing practices while on campus by spacing out and wearing a mask/facial covering will greatly improve our odds of having a safe and healthy campus experience.

Exemptions: Students requesting an exemption may need to wear a clear plastic face shield instead of a face mask. Students needing this accommodation should register with Student Disability Services and provide the appropriate documentation supporting this request. No accommodation exists that would exempt a student from wearing a mask/facial covering at any university-sponsored activity or event. For religious or any other exemption-related questions, students should contact the Office of Student Affairs.

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Sanitation: Wipes will be provided for students to wipe down keyboards and other surfaces before class begins.

Wellness Screening: The ASU daily wellness screening must be completed prior to coming on campus.

Communication

You are responsible for checking your ASU email account and Blackboard frequently throughout the duration of this course. Email communication should be exclusively through your ASU email address. Please include your course name and section number in the subject line of your email. I will respond to email messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

Office Hours

Office hours will be held **virtually** through Blackboard Collaborate. Please email bniehues@angelo.edu to set up an appointment.

Activities Assessing Learning Outcomes

Assignments

- *Flipped Classroom*
  Textbook material, videos, and PowerPoint slides will be announced on Blackboard. This material will help you build the knowledge and skills needed to complete the quizzes and programming assignments.
- *Quizzes*
  Quizzes and applicable due dates will be posted on Blackboard. Quizzes should be completed outside of class and may be retaken an unlimited number of times prior to the due date. A video explaining the answers will be posted after the quiz due date.
- *Programming Assignments*
  The purpose of the programming assignments is to give you individual programming practice on the topics that you are learning and to explore some ideas more deeply. Assignments will be given frequently for you to complete. Due dates will be posted on Blackboard and **no late** assignments will be accepted.

Exams

There will be three exams including the final. Be prepared for an online format on Blackboard using Respondus Lockdown browser with Respondus Monitor turned on. Exams may include multiple choice, true/false, or fill-in-the-blank type questions or may require writing C++ code. All students must take all

the exams on the scheduled dates. See table under Course Outline for approximate exam dates and Class Policies for exam policies.

Grades
Your course grade will be calculated as follows:

Activity	Percentage
Programming Assignments	45%
Quizzes	5%
Exam 1	15%
Exam 2	15%
Final Exam	20%

ASU employs a letter grade system. Grades in this course are determined on a percentage scale:

Grade	Percentage
A	90.00 – 100
B	80.00 – 89.99
C	70.00 – 79.99
D	60.00 – 69.99
F	0 – 59.99

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures[3] for more information.

Course Outline
Weekly tentative schedule

Day	Topics
1	Intro to computers and programming (Module 1)
2	Intro to C++ (Module 2)
3	Intro to C++ (Module 2) cont.; Expressions and Interactivity (Module 3);
4	**Exam 1** (over Module 1 and Module 2)
5	Expressions and Interactivity (Module 3) cont.
6	Expressions and Interactivity (Module 3) cont.; Making Decisions (Module 4)
7	Making Decisions (Module 4)
8	Loops and Files (Module 5)
9	**Exam 2** (covers, Module 3, Module 4, and Module 5 Lesson 1 only)
10	Functions (Module 5) cont.
11	Functions (Module 6)
12	Functions (Module 6) cont.; Arrays & Vectors (Module 7)
13	Arrays & Vectors (Module 7) cont.
14	Arrays & Vectors (Module 7) cont.; Programming Project
15	**Final Exam on Friday, 1/22/2021, 10 AM – 12 PM**

Class Policies
All students are required to follow the policies and procedures presented in these documents:

Angelo State University Student Handbook[4]

Angelo State University Catalog[5]

Policy on Absenteeism/Non-communication

Attendance will be based on assignment submissions.

Submissions/Late Work

- All assignments, unless otherwise specified, must be submitted to Blackboard and contain your name, course name/section, the title of the assignment, and the due date.
- *No late assignment will be accepted. No e-mail submission is accepted*. There are no exceptions to this rule.

Academic Integrity

- Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.
- The College of Science and Engineering adheres to the university's Statement of Academic Integrity.[6]
- All assignments should be the product of the student alone. Cheating occurs when a student either submits work for a grade that is not entirely due to his/her own effort or allows others to use his/her work.

Exam Policies

- There are no makeup exams. An exception will be an absence for observance of a religious holy day (see Additional Policies below).
- If one exam is missed, the final exam will count double to make up for the missed exam. Only one missed exam can be made up this way. If more than one exam is missed, a grade of zero will be given for the additional missed exam.
- *The final exam must be taken on its assigned date.* For students taking all three exams, the final exam grade can replace a lower grade on one of the first two exams if the final exam grade is higher. Only one regular exam grade can be replaced in this way.

Additional Policies

Accommodations for Disability

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website.[7] The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

> Dallas Swafford
> Director of Student Disability Services
> Office of Student Affairs
> 325-942-2047
> dallas.swafford@angelo.edu
> Houston Harte University Center, Room 112

Student Absence for Religious Holidays

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day[8] for more information.

Title IX at Angelo State University

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based

discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form[9].

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.
For more information about Title IX in general you may visit www.angelo.edu/title-ix[10].

Modifications to the Syllabus
The instructor and the university reserve the right to modify or change the syllabus (schedule, course requirements, grading policy, etc.) as the curriculum and/or program require(s).

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[1] https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support
[2] https://www.angelo.edu/covid-19/face-coverings/
[3] https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
[4] https://www.angelo.edu/student-handbook/
[5] https://www.angelo.edu/catalogs/
[6] http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
[7] https://www.angelo.edu/services/disability-services/
[8] https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
[9] www.angelo.edu/incident-form
[10] www.angelo.edu/title-ix