



WACO, TEXAS

**COURSE SYLLABUS
AND
INSTRUCTOR PLAN**

C Programming

COSC 1320

Dr. Becky Sue Parton

NOTE: This is a 16-week course.

NOTE: This is a Blended/Hybrid course.

Course Description:

Introduces the fundamental concepts of structured programming using C++. Topics include program methodology, data types, control structures, functions, arrays and the mechanics of running, testing, and debugging. Semester Hours 3.

Prerequisites and/or Corequisites:

None

Course Notes and Instructor Recommendations:

Each concept in this course builds on the previous one so your best opportunity to do well is to keep up, complete all the assignments, and allot plenty of time to practice.

Instructor Information:

Instructor Name: Dr. Becky Sue Parton

MCC Email: rparton@mclennan.edu

Office Phone Number: 254-299-8269

Office Location: Business Technology 113

Office/Teacher Conference Hours:

Tuesdays 10:00 – 12:30 in person

Wednesdays 3:00 – 4:00 online

Thursdays 10:00 – 11:00 and 12:30 – 2:00 in person

Or by appointment

Methods of Teaching and Learning:

This course is a blended course that meets 1x per week. We learn general programming concepts and then put them into practice by learning C++. You will be writing programs and also taking exams over the content. You will need to work outside of class time to read/practice !!

Required Text & Materials:

Author: Gaddis

Title: Pearson eText Starting Out with C++ from Control Structures to Objects – (4 months)

Edition: 10th

ISBN: 9780137450626

Additional items: *We will also use a PDF book from Smith that will be provided.* We will use an online compiler to develop our C++ code: https://www.onlinegdb.com/online_c++_compiler#

Course Objectives and/or Competencies:

Upon successful completion of the course, the student will be able to:

1. Effectively use basic computer programming vocabulary.
2. Solve problems by analyzing them, reducing them to logical units and creating solutions using a modular approach.
3. List and carry out the steps of designing and implementing a computer program (problem definition and analysis, logic planning, code development, testing and debugging, implementing and documentation).
4. Analyze solutions and documentation, and create structured solutions to problems.
5. Explain the advantages of structured design and coding concepts.
6. Illustrate the three basic logic structures (sequence, selection, and iteration) using flowcharts, and pseudo code, and a high level language.
7. Explain common business programming logic (report printing with headings, control breaks and totals, input validation, error handling, counting, accumulating, file matching, end of file logic, updating, tables, and others).
8. Interpret, modify and complete program flowchart.
9. Apply rules of structured, modular programming logic and design.
10. Complete individual assignments on schedule, and collaborate on exercises in small groups. 13. Understand basic data structures to include arrays.

Late Work, Attendance, and Make Up Work Policies:

Assignments are to be submitted on time. If you have an extenuating circumstance, please communicate with me (in advance whenever possible) and we will work out a solution. That solution will often involve a point deduction so it is in your best interest to submit on time.

In-class participation activities are difficult to make up thus alternative (and definitely not as much fun) assignments will be substituted in extenuating circumstances.

[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)

(<https://www.mclennan.edu/highlander-guide/policies.html>)

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity. As an adult, you are responsible for your education though I am here to support you! *Please silence your cell phones.*

Course Attendance/Participation Guidelines:

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, ***faculty are required to drop students from their class roster prior to certifying the respective class roster.*** A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

Students are responsible for all class work regardless of attendance. Since this course is a blended format, the following division policy is in place: To be counted as attending BEFORE the census date, a student must attend at least ONE class meeting and complete at least ONE assignment. An email to the instructor does NOT count. Logging into Brightspace and accessing content does NOT count. Any student who fails to attend at least once and submit at least one assignment prior to the census date will be dropped from the course.

Past the census date, I will not initiate a withdraw from the course regardless of your grades. **However, I am willing to withdraw you if you ASK ME to do so!** It is your responsibility to know your standing in the class and make that decision.

Communication / Email Policy:

<https://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>

McLennan Community College would like to remind you of the policy regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business. A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails.

I generally respond to email within 24 hours Monday-Friday. If you email on the weekend or a holiday, it will likely be the following business day before I reply.

MCC Academic Integrity Statement:

<https://www.mclennan.edu/academic-integrity>

The link above will provide you with information about academic integrity, dishonesty, and cheating. While collaboration between students is welcome to facilitate learning, each student's work must be their own. ***It is pretty simple – don't cheat – it only hurts you in the long run.*** If you do decide to cheat, you will get a 0 on the assignment. You may use AI to help you understand coding concepts, but not to write the code for you. The code you submit should reflect the material that we have learned and practiced in class. Although you are welcome to use more advanced techniques, I have the right to ask you to explain them in person.

Course Grading Information:

Type of Activity	# and Points Each	Overall Pts	Overall %
Exams	2 @ 50 Points Each	100	10%
Programming Sets	10 @ 75 points each	750	75%
Participation	3 @ 50 points each	150	15%
		1000 points	100%

Total Points Possible = 1000 (i.e. 100%). Grade Scale:

900 – 1000 points = A




800 – 899 points = B

700 – 799 points = C

600 – 699 points = D

Below 600 points = F

C++ Programming – Spring 2025 – Dr. Parton

Week*	Topic	Online Preparation	In-Class Thursdays (11:10 – 12:30)	Assignments for the Week*
Jan. 16	Welcome / Intro	Introductions & Syllabus Pearson Ch. 1 / Smith Ch. 1	“Hello World” & Coding Setup	Participation – Hello World Program (in class 1/16 or makeup by 1/23)
Jan. 23	Variables	Pearson Ch. 2 / Smith Ch. 2	Demos & Practice	Program Set A due Jan. 29
Jan. 30	Structure & Strings	Pearson Ch. 3 & 10 / Smith Ch. 3	Demos & Practice	Program Set B due Feb. 5
Feb. 6	Decisions	Pearson Ch. 4 / Smith Ch. 4	Demos & Practice	Program Set C due Feb. 12
Feb. 13	Decisions Cont. 		Demos & Practice	Program Set D due Feb. 19
Feb. 20	Loops	Pearson Ch. 5 / Smith Ch. 5	Demos & Practice	Program Set E due Feb. 26
Feb. 27	Loops Cont.		Demos & Practice	Program Set F due March 5
March 6		Review	Exam	EXAM – the Basics (3/6 in class)
March 13	Spring Break			
March 20	Arrays 	Pearson Ch. 7 / Smith Ch. 6	Demos & Practice	Program Set G due March 26
March 27	Arrays Cont.		Demos & Practice	Program Set H due April 2
April 3	Files	Pearson Ch.12 (part) / Smith Ch.7	Demos & Practice	Program Set I due April 9
April 10	Functions	Pearson Ch. 6 / Smith Ch. 9	Demos & Practice	Program Set J due April 16
April 17			Easter “Code Hunt” activity!	Participation – Easter Code Hunt (in class)
April 24	Robotics		“Code the Cars” activity!	Participation – Code the Cars (in class)
May 1		Review	Exam	EXAM – Adv Concepts (5/1 in class)

* Note: I listed the week by the Thursday we meet in person, but prior to that you should do the readings &/or be working on program sets. Assignments for a given week are due the following Wednesday by Midnight typically. There is no final exam for this course – we are doing the code hunt in lieu of one since it will be a comprehensive (and hopefully fun) way to reinforce all you learned across most of the chapters. More details provided in Brightspace.

Calendar is subject to change!

07/02/2024



ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact Accommodations (Disability Services) as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit www.mclennan.edu/disability

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu (254)299-8122 Room
319, Student Services

Title IX:

Title IX of the Education Amendments of 1972 is a Federal civil rights law that prohibits discrimination on the basis of sex in educational programs and activities that receive Federal funds. We care about your safety and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report a Title IX incident are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling, Dr. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465.

Additionally, Title IX provides rights and protections for pregnant and newly parenting students which can include educational accommodations such as excused absences

and the opportunity to make up assignments and tests. Lactation spaces are also available on campus. Please email titleix@mclennan.edu for more information.

MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Faculty and Staff may email titleix@mclennan.edu to submit a report.

Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student may report sexual harassment anonymously by visiting <https://www.lighthouse-services.com>

Visit McLennan's Title IX webpage at <https://www.mclennan.edu/titleix/> to learn more about Title IX protections, reporting, and resources.

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom. You can contact the Academic Support and Tutoring team via Zoom or email (ast@mclennan.edu) by going to our website (<https://www.mclennan.edu/academic-support-and-tutoring/>)

At our campus, we understand that students face numerous challenges beyond the classroom. That's why we offer Success Coaches who are dedicated to helping you succeed. Our coaches know that life can sometimes get in the way of your educational goals. Through personalized meetings, Success Coaches empower you to overcome obstacles, maximize your potential, and create a clear path to both academic and personal success. Our Success Coaches are ready to help you achieve your dreams! Schedule your appointment today by calling 254-299-8226 or emailing success@mclennan.edu.

College personnel also recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources and other essential resources, we encourage you to contact the CREW - Campus Resources Education Web by calling 254-299-8561 or emailing crew@mclennan.edu.

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to <https://calendly.com/paulannespantry-mcc/15min>.

Success Coaching Services, the CREW, and Paulanne's Pantry are located on the second floor of the Student Services building in Success Coaching Services, suite 249.

The Student Counseling Center offers confidential mental health counseling to currently enrolled students at no charge. Counselors are trained to help students with problems related to personal, social, and emotional concerns. Sessions focus on short-term goals in order to facilitate students college success and adjustment. This service is available to students in person or through Zoom.

Make an appointment to meet with a counselor by visiting the center in the Wellness & Fitness building, room 101, calling 254-299-8210, or emailing counseling@mclennan.edu.

MCC Foundation Emergency Grant Fund:

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html>

MCC Academic Integrity Statement:

Please view our [Academic integrity statement](#) for more information about academic integrity, dishonesty, and cheating. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is

authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-StaffCommons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails. For more information about your student email account, go to www.mclennan.edu/studentemail.

Instructional Uses of Email:

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- [Email Setup for iPhones and iPads](#)
- [Email Setup for Androids](#)

Forwarding Emails:

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

For more helpful information about technology at MCC, go to [MCC's Tech Support](#) or email helpdesk@mclennan.edu.

Disclaimer:

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.