



WACO, TEXAS

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**COURSE SYLLABUS  
AND  
INSTRUCTOR PLAN**

**Programming Fundamentals I**

**COSC - 1336 - 0001**

**JOSHUA SULLWOLD**

**NOTE: This is a 16-Week course.**

**NOTE: This is a Face-to-Face course.**

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## **Course Description:**

This course introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy.

## **Prerequisites and/or Corequisites:**

Desire to learn!

## **Course Notes and Instructor Recommendations:**

Students should use their MCC email to avoid having the email caught in the MCC filter. **The student is responsible for checking the MCC email and Brightspace every day.**

## **Instructor Information:**

Instructor Name: Joshua Sullwold

MCC Email: [jsullwold@mclennan.edu](mailto:jsullwold@mclennan.edu)

Office Phone Number: 254 299 8281

Office Location: BT 108

Office/Teacher Conference Hours: See Brightspace for Faculty Schedule

**Instructor Correspondence Information:** Emails are returned within 24 hours of receipt except when received over the weekend or during holidays. Those will be returned the first business day the College is open.

## **Required Text & Materials:**

Title: Introduction to Programming with C++, 6th Edition

Author: Liang, Y. Daniel

Edition: 5<sup>th</sup>

Publisher: Pearson

ISBN: 9780137454181

**\*\* This should be provided as part of your tuition for the course! Please be sure to check your student and personal email attached to your MCC account (including your spam folders).**

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USB Flash drive (4 GB or more) if desired.

## **Hardware:**

Computer (Windows 11 preferably) meeting MCC minimum specifications with the ability to use Brightspace.

**MCC Bookstore Website:** [MCC Bookstore](#)

## **Methods of Teaching and Learning:**

The course uses reading, lesson assignments, and unit exams to instruct and analyze student mastery over the information and skills.

The CIS department has online, hybrid, and hyflex courses that are designed with the same standards of academic excellence as the face-to-face classes that meet on campus. This course is an online class, which may require more study and student effort than is usually required in a standard face-to-face course. To be successful in this course, students should be willing to put in at least twice as much time as they would spend in a face-to-face section because it will require more reading, research, and online collaboration. This course requires at least the same level of rigor as a traditional course and additionally requires that the student can work independently, solve problems, communicate, and participate in a professional manner.

## **Course Objectives and/or Competencies:**

During this course, students will:

- Describe how data are represented, manipulated, and stored in a computer.
- Categorize different programming languages and their uses.
- Understand and use the fundamental concepts of data types, structured programming, algorithmic design, and user interface design.
- Demonstrate a fundamental understanding of software development methodologies, including modular design, pseudo code, flowcharting, structure charts, data types, control structures, functions, and arrays.
- Develop projects that utilize logical algorithms from specifications and requirements statements.

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- Demonstrate appropriate design, coding, testing, and documenting of computer programs that implement project specifications and requirements.
- Apply computer programming concepts to new problems or situations.

## **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.

This course will be conducted as a "face-to-face" class. This face-to-face course means there are weekly, regular class meetings students will be required to attend in-person. Class attendance will be taken during each regular meeting session.

To be counted as attending BEFORE the census date, a student must attend at least ONE regular class session. An email to the instructor does NOT count. Logging into Brightspace and accessing content does NOT count. Submission of an assignment does NOT count. Any student who fails to attend at least one class session prior to the census date will be dropped from the course.

Past the census date, if a student fails to attend face-to-face class sessions for more than 25% of the class meetings prior to the 60% point of the term, the instructor may withdraw the student from the course. Should a student miss more than 25% of the class meetings past the 60% point of the term, the instructor may NOT withdraw the student. The student will be assigned the grade they have earned for the course in these circumstances.

Absences are excused in accordance with MCC policy which includes absences caused by (1) authorized participation in official College functions, (2) personal illness, (3) an illness or a death in the immediate family, (4) Pregnant or Parenting Protections under Title IX and/or Texas State Education Code Chapter 51, Subchapter Z, Section 51.982 or (5) any excused absences as outlined in Section IV of the MCC Class Attendance policy.

## **Course Outline or Schedule:**

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**NOTE!!! The instructor reserves the right to change course policies, deadlines, assignments, or exams at their discretion with the proper notice.**

## 1. Course Schedule

| <b>Week</b>         | <b>Reading</b>               | <b>Assignments Due</b>                          |
|---------------------|------------------------------|---|
| Week 1              | Orientation<br>Logic Designs | Syllabus Quiz<br>Introduction Discussion        |
| Week 2              | Logic Designs                | Logic Design Assignment                         |
| Week 3              | Chapter 1                    | Chapter 1 Program                               |
| Week 4              | Chapter 2                    | Chapter 2 Program                               |
| Week 5              | Chapter 3                    | Chapter 3 Program                               |
| Week 6              |                              | Unit 1 Review - Quiz<br>Unit 1 Review - Program |
| Week 7              |                              | Unit 1 Exam - Quiz<br>Unit 1 Exam - Program     |
| Week 8              | Chapter 4                    | Chapter 4 Program                               |
| <b>Spring Break</b> |                              |   |
| Week 9              | Chapter 5                    | Chapter 5 Program                               |
| Week 10             | Chapter 6                    | Chapter 6 Program                               |
| Week 11             |                              | Unit 2 Review - Quiz<br>Unit 2 Review - Program |
| Week 12             |                              | Unit 2 Exam - Quiz<br>Unit 2 Exam - Program     |
| Week 13             | Chapter 7                    | Chapter 7 Program                               |
| Week 14             | Chapter 8                    | Chapter 8 Program                               |
| Week 15             |                              | Unit 3 Review                                   |
| Week 16             |                              | <b>Final Exam</b>                               |

**\*See Brightspace for details on each assignment including due dates and times.**

Important Campus Holidays:

- Spring Break - March 9<sup>th</sup> - March 13<sup>th</sup>

View important college dates here: [MCC Calendar](#)

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## **Course Grading Information:**

The final grade will be calculated by taking an average of each of the assignments (40%), and exam grades (60%). The average of each section is added to the total to determine your final grade for the course. Students will earn grades based upon performance level of assigned material.

All coursework must be submitted through Brightspace. Grades for coursework will be recorded and maintained in Brightspace. Grades and assignment feedback will be officially documented no later than two weeks following the due date. Should you have any questions regarding grades or feedback you have received, please contact the instructor immediately through office hours, email, or other official methods detailed in Brightspace.

The penalty for violation of academic honesty is removal from the course with a grade of F and an incident report to college administration. Cheating is when someone or something other than yourself completes your assignments. Plagiarism is when someone copies information from an external source and presents it as original work (including the use of AI).

## **Grade Composition:**

|                     |     |
|---------------------|-----|
| Chapter Assignments | 40% |
| Unit Exams          | 60% |

## **Grading Scale:**

|        |   |
|--------|---|
| 90-100 | A |
| 80-89  | B |
| 70-79  | C |
| 60-69  | D |
| 0-60   | F |

## **Late Work and Make Up Work Policies:**

Students will be permitted to make up class work and assignments missed due to absences caused by (1) authorized participation in official College functions, (2) personal illness, or (3) an illness or a death in the immediate family. It is the instructor's prerogative whether a student may make up work missed due to absences for other

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reasons. It is the student's responsibility to inform the instructor of the reason for an absence and to do so in a timely fashion. Moreover, it is the student's responsibility to keep up with missing material. Finally, due dates will not be modified by absences. Due dates will be clearly shown on each assignment.

Due to the nature of the course, the student must complete all of the reading and assignments to prepare to for moving towards other courses. Because of this, the instructor will allow late submissions prior to the end dates listed in Brightspace. Assignments submitted after the due date will be graded prior to the end of the semester.

### **Student Behavioral Expectations or Conduct Policy:**

Students are required to adhere to the General Conduct Policy in the Highlander Guide. Students are expected to maintain an attitude which respect their fellow learners and the instructor through regular attendance, and an attitude seeking to take full advantage of the education opportunity.

All students will be treated as adults, which means you are ultimately responsible for your education. To be successful in this course it is crucial that you as the student carry through with your responsibilities of learning and applying the material. Keys to being successful in this class are.:

- Read and follow the Syllabus.
- Check MCC student email regularly.
- Stay updated on course material including readings, assignments, and chapter quizzes.
- Study appropriately.
- Be responsible and accountable.
- Devote appropriate time to this course to complete all necessary material.
- Contact instructor with any questions, issues, or concerns.
- Be professional, and respectful to fellow learners and the instructor.

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

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Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

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## **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 begin the steps for requesting accommodations. 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 Accommodations (Disability Services). For additional information, please visit [www.mclennan.edu/disability](http://www.mclennan.edu/disability)

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

[disabilities@mclennan.edu](mailto: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](mailto: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](mailto: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](mailto: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/>

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>.

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](mailto:ast@mclennan.edu)) by going to our website (<https://www.mclennan.edu/academic-support-and-tutoring/>)

### **Success Coaching Services is here for you.**

We know life can be overwhelming sometimes—and that challenges outside the classroom can impact your success inside it. That's why our Success Coaches provide personalized support to help you navigate it all.

Success Coaching is available to every MCC student, no matter where you're starting from. Whether you're looking for direction, need quick advice, or just want someone to talk to, our coaches are here to listen, celebrate your strengths, and help you move forward with confidence. At Success Coaching Services, your voice is heard, your goals matter, and your future is our focus.

To learn more or schedule an appointment, visit [www.mclennan.edu/successcoaching](http://www.mclennan.edu/successcoaching), call 254-299-8226, or email [success@mclennan.edu](mailto: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](mailto:crew@mclennan.edu).

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](mailto: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:**

For online and blended/hybrid courses, students must have access to a reliable computer and internet. For more information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system go to: <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-StaffCommons/requirements.html>

**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](http://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](mailto: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](mailto: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.