

**CS 300: Programming Languages, Spring 2022**  
**Department of Computer Sciences and Electrical Engineering**  
**Marshall University**

**Course Information:**

- Instructor: Cong Pu (Ph.D., Assistant Professor)
- Office: Weisberg Applied Engineering Complex (WAEC) 3109
- Office Phone: (304) 696-6204
- Email: [puc@marshall.edu](mailto:puc@marshall.edu)
- Course format: Lecture
- Course meetings: T/R, 12:30 p.m. – 1:45 p.m., WAEC 1203
- Virtual office hours:
  - Important: All office hours will be held virtually during the COVID-19 pandemic.
  - Tentative office hours:  
Tuesday, 8:00 a.m. – 11:30 a.m.  
Thursday, 8:00 a.m. – 11:30 a.m., 3:30 p.m. – 6:30 p.m.  
Or by appointment through email.
  - Students are expected to communicate with instructor to set up video meetings via Microsoft Teams.
- Course web page: MU Online (Blackboard) <http://www.marshall.edu/muonline/>. It is important to visit MU Online (Blackboard) regularly for up-to-date course information.

**COVID-19 Related Information: From University**

- Marshall's official COVID-19 protocols are online at <https://www.marshall.edu/coronavirus>. Policies and protocols may change over time as we respond to changing conditions. The website will always contain the most recent information.
- Key policies at the start of the Fall 2021 semester include the following:
  - **Masks are required for everyone in all public indoor spaces on university property, regardless of one's vaccination status.** These spaces include classrooms, labs, office suites, hallways, lobbies, stairwells, etc. Instructors may choose to teach either while wearing a mask or face shield or while standing behind the plexiglass barrier in the classroom.
  - **In order to remain in in-person classes, students must sign the Marshall Return to Campus Student Agreement** that outlines public health expectations and University COVID-19 policies: <https://bit.ly/2VP3Naa>.
  - **In order to remain in in-person classes for the Fall 2021 semester, students must submit their current vaccination status** in the online Student Vaccination Registry here: <https://mubert.marshall.edu/vaccinerecord.php>. The registry



offers several possible responses, including an option to not disclose vaccination status.

- **Students will disinfect their personal workspaces and virtual learning hubs with disinfectant wipes** provided nearby.
- **Students who are unable to follow University requirements due to a disability** should seek reasonable accommodations from the Office of Disability Services (ODS) during the first week of class.

#### **Course Description: From Catalog**

- Comparative study of the concepts found in contemporary programming languages. Emphasis is on design and evaluation of a language in terms of its features and their implementation. (PR: CS 210)

**Course Student Learning Outcomes:** The table below shows the following relationships: How each student learning outcomes will be practiced and accessed in the course.

<b>Course Student Learning Outcomes</b>	<b>How students will practice each outcome in this course</b>	<b>How student achievement of each outcome will be assessed in this course</b>
<b>OC- 1:</b> Students will comprehend and apply the program paradigms to simple problems (1)	<ul style="list-style-type: none"><li>• Lecture</li><li>• Examples</li><li>• In-class exercise</li></ul>	<ul style="list-style-type: none"><li>• Assignment</li><li>• Exam</li></ul>
<b>OC- 2:</b> Students will be able to explain the fundamental principles that underlie all programming languages (1)	<ul style="list-style-type: none"><li>• Lecture</li><li>• Examples</li><li>• In-class exercise</li></ul>	<ul style="list-style-type: none"><li>• Assignment</li><li>• Exam</li></ul>
<b>OC- 3:</b> Students will be able to demonstrate understanding of the basic structure and syntax of programming languages (1)	<ul style="list-style-type: none"><li>• Lecture</li><li>• Examples</li><li>• In-class exercise</li></ul>	<ul style="list-style-type: none"><li>• Assignment</li><li>• Exam</li></ul>

ABET 1-6: <https://www.abet.org/accreditation/accreditation-criteria/criteria-for-accrediting-computing-programs-2020-2021/>

#### **Preferred Communication Method and Expected Response Time:**

- Students can always meet with the instructor via Microsoft Teams during the virtual office hours, no appointment is required.
- Outside virtual office hours, 6 hours advance notice is required when scheduling an appointment. If students ask the instructor to meet on Microsoft Teams immediately, the answer will probably be “No”.
- Students can generally expect an email response within 6 hours. If students do not get a response within 6 hours, please forward the previous email to the instructor.
- Students can generally expect the feedback on assignment and exam in one week after submission. If students do not receive the feedback in two weeks, please send an email to the instructor.

#### **Required Textbooks, Additional Reading, and Other Materials:**

- This course uses digital course materials designed using Open Educational Resources (OER), high-quality, openly licensed educational materials, rather than a traditional

textbook. Students can access all readings, materials, videos, and other activities through course web page. **Thus, students are not required / do not need to buy textbooks.**

**Course Requirements and Grading Policy:**

- **1<sup>st</sup> Exam: 15%**, Feb 10 (Thursday), 12:30 p.m. – 1:45 p.m., MU Online (Blackboard), WAEC 1203
- **2<sup>nd</sup> Exam: 15%**, Mar 10 (Thursday), 12:30 p.m. – 1:45 p.m., MU Online (Blackboard), WAEC 1203
- **3<sup>rd</sup> Exam: 15%**, Apr 26 (Tuesday), 12:45 p.m. – 2:45 p.m., MU Online (Blackboard), WAEC 1203
  - All exams (non-cumulative) are computer-based exams.
  - All exams should be taken in the classroom (WAEC 1203). However, students can start exam wherever students want during exam time and submit on Blackboard.
  - Students are allowed to bring notes on one piece of double-sided A4 paper.
  - There will be NO make-up for missing exam. Only university excused absences with appropriate and official DOCUMENTATION will be accepted for make-up exam. Please contact Student Affairs (<https://www.marshall.edu/student-affairs/>) for university excused absence documentation first, and then schedule the make-up exam with the instructor.
    - The make-up exam must be taken within two days after the scheduled exam.
  - If students take a conflict exam, they must talk to the instructor and provide a valid document at least two weeks before the scheduled exam.
    - The conflict exam must be taken within two days after the scheduled exam.
- **Assignment: 55%**
  - There are two types of assignment: lab assignment and writing assignment.
  - Assignment should be SUBMITTED on Blackboard before Due Date. *Other submission methods* (i.e., email) *will NOT be accepted*.
  - LATE Submission will NOT Be Accepted on Blackboard since the submission link will be closed automatically after due date.
  - There will be NO re-submission for missing assignment. Only university excused absences with appropriate and official DOCUMENTATION will be accepted for assignment re-submission\*. Please contact Student Affairs (<https://www.marshall.edu/student-affairs/>) for university excused absence documentation first, and then contact the instructor for the re-submission.
    - \*The re-submission will be provided *if and only if* the duration of university excused absences is **equal to or longer than** the half of the time limit on the assignment.
  - Each student has unlimited submission attempts on Blackboard before due date. However, the instructor only grades the final submission attempt.
  - There will be NO re-submission if the student submitted the wrong assignment.
- **Plagiarism:**
  - Plagiarism or cheating will not be tolerated in the class.
    - 1<sup>st</sup> plagiarism will result in zero point in the suspected work.
    - 2<sup>nd</sup> plagiarism will result in immediate dismissal (F grade).
- All grades will be posted on Blackboard:

- *Students are highly suggested to check the grade on Blackboard frequently and notify instructor immediately if there is any grading error.*
- Mid-term grade will be posted around March 21 (Monday)
  - March 25 (Friday), last day to drop an individual course.
  - Spring 2022 calendar: <https://www.marshall.edu/academic-calendar/spring-2022-semester/>
- Grade Scale:
  - Actual points received in each category should be converted into category percentage.
  - For example, if you got 40/50 for 5 assignments, the percentage of assignment category will be  $(40 / 50) * 40 = 32 \%$ .
  - A (100 - 90), B (89 - 80), C (79 - 70), D (69 - 60), and F (59 - 0)
- Excuses
  - Because there is a degree of flexibility in completing items, it is the student's responsibility to keep track of dates and find enough time for completion. If the students wait until the last minute, there is no one to blame but the students themselves. With that said, the instructor is also not heartless. If there is something that occurs which prevents student's access to the course for a significant length of time (e.g., serious illness, death in the family, or personal tragedy), the student needs to contact Student Affairs (<https://www.marshall.edu/student-affairs/>) and the instructor as soon as possible and they may be able to work something out.

#### **Attendance and Classroom Policy:**

- The instructor chooses not to take attendance. This is because taking attendance doesn't make students learn, it just makes them present. However, students are expected to attend punctually all class meetings, from the beginning of the semester until the end of the semester.
- If a student needs self-quarantine for 14 days due to COVID-19, make-up will be provided for exam or assignment that is due during self-quarantine period when the self-quarantine is over.
  - Students need to contact Student Affairs (<https://www.marshall.edu/student-affairs/>) for university excused absence documentation first, and then discuss the make-up work with the instructor.
- If a student misses a class without university excused absence documentation, the student should not expect individualized instruction on what was missed. This will be effective from the beginning of semester.
- Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, unless otherwise approved by the instructor, students are prohibited from engaging in any other form of distraction. Inappropriate behavior in the classroom shall result, minimally, in a request to leave class.

**Marshall University Policy:** By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to Academic Affairs: Marshall University Policies. (URL: <http://www.marshall.edu/academic-affairs/policies/>)

- Academic Dishonesty Policy

- Academic Dismissal Policy
- Academic Forgiveness Policy
- Academic Probation and Suspension Policy
- Affirmative Action Policy
- Dead Week Policy
- D/F Repeat Rule
- Excused Absence Policy for Undergraduates
- Inclement Weather Policy
- Sexual Harassment Policy
- Students with Disabilities (Policies and Procedures)
- University Computing Services Acceptable Use Policy

**Course Schedule and Important Dates:** Topics and/or dates may be changed during the semester at the instructor's discretion because of scheduling issues, developments in the discipline, or other contingencies.

- Jan 11: Welcome & Course Introduction
- Jan 13: Preliminaries of Programming Languages
- Jan 18: Evolution of Programming Languages
- Jan 20: Evolution of Programming Languages
- Jan 25: Syntax and Semantics
- Jan 27: Syntax and Semantics
- Feb 01: Lab 1
- Feb 03: Lexical and Syntax Analysis
- Feb 08: Lexical and Syntax Analysis
- **Feb 10: 1<sup>st</sup> Exam, 12:30 p.m. – 1:45 p.m., Blackboard**
- Feb 15: Names, Bindings, and Scopes
- Feb 17: Names, Bindings, and Scopes
- Feb 22: Lab 2
- Feb 24: Data Types
- Mar 01: Data Types
- Mar 03: Expressions and Assignment Statement
- Mar 08: Lab 3
- **Mar 10: 2<sup>nd</sup> Exam, 12:30 p.m. – 1:45 p.m., Blackboard**
- **Mar 15: Spring Break – classes dismissed**
- **Mar 17: Spring Break – classes dismissed**
- Mar 22: Statement-Level Control Structures
- Mar 24: Statement-Level Control Structures
- Mar 29: Subprograms
- Mar 31: Subprograms
- Apr 05: Lab 4
- Apr 07: C Programming
- Apr 12: C Programming
- Apr 14: Lab 5
- **Apr 19: "Dead Week" – Self Review; No Lecture**
- **Apr 21: "Dead Week" – Self Review; No Lecture**
- **Apr 26: 3<sup>rd</sup> Exam, 12:45 p.m. – 2:45 p.m., Blackboard**