|  |  |
| --- | --- |
| **COMPSCI172 - Introduction to Java**  **Summer 2022 Online Session**  **Course Syllabus** | |
|  | Dr. Jiazhen Zhou  Email: [zhouj@uww.edu](mailto:zhouj@uww.edu)  Office: McGraw 104C  Phone: (262) 472-5172  WebEx Office Hours: Wednesday, Sunday 8:00 – 9:00 PM or by appointment  Class website: CANVAS |
| **Welcome** | Welcome to CS 172, Introduction to Java.  Java is a very popular programming language which serves as an effective tool for designing and implementing any software following the object-oriented design methodology. Having a solid background in Java and object-oriented design will help us tremendously in designing and implementing any applications. By the end of this course, you should have a thorough understanding of fundamental concepts in object-oriented designs such as class, object, method, control statements, array, algorithm, and will be able to design and implement basic algorithms using these concepts. |
| **Required**  **Texts**  **Reference Texts** | None (Slides and videos will be posted on CANVAS)  Introduction to Java Programming (10th or later edition), Daniel Liang, Pearson, 2013.  Starting Out with Java: From Control Structures through Objects (6th Edition), Tony Gaddis, 2015, Pearson (Earlier editions also fine) |
| **Course**  **Description** | In this course, we will learn the essentials of object-oriented programming in Java, such as: formulating algorithms, solving problems, and implementing those solutions with a Java program that employs objects and classes. More specifically, we will cover the topics such as object-oriented design and applications, class construction, methods, conditional and loop statements, basic data types, arithmetic operations, arrays, and algorithms.  Prerequisite: COMPSCI 170/171 or equivalent programming experience or consent of instructor, MATH 152 or MATH 143 or concurrent registration in MATH 253. |
| **Course**  **Objectives** | By the end of this course, you will be able to:  1. Formulate algorithms using basic programming knowledge in variables, control statements, and array to successfully solve a practical problem.  2. Implement the solution in Java using class, objects, and methods to solve a practical problem. |
| **Course**  **Schedule** | ***.***  ***Tentative Course Schedule***   |  |  |  |  | | --- | --- | --- | --- | | **Session** | **Ending date** | **Topic** | **Tasks** | | 1 | May 26 | Introduction to Java, Variable and data types | Lab 1 due | | 2 | May 30 | Typecasting,  Arithmetic operations | Lab 2 due  Quiz 1 | | 3 | June 2 | Selection statements | Lab 3 due | | 4 | June 6 | For loop statements | Lab 4 due  Quiz 2 | | 5 | June 9 | Array and Algorithm | Lab 5 due | | 6 | June 13 | String, While loop statements | Lab 6 due  Quiz 3 | | 7 | June 16 | Design of a class | Project 1 due June 16 | | 8 | June 20 | Methods, Getters/Setters, Constructors | Lab 7 due  Quiz 4 | | 9 | June 23 | Regular methods | Lab 8 due | | 10 | June 27 | Object array | Lab 9 due  Quiz 5 | | 11 | June 30 | Packages, Debugging | Project 2 due July 2 | | 12 | July 1 | Review for final | Final Exam on July 1 | |
| **Grading Policies** | **Grading Policy**   |  |  | | --- | --- | | **GRADABLE** | **Percentage** | | **Labs** | 25% | | **Project 1** | 15% | | **Project 2** | 15% | | **Quizzes** | 10% | | **Final Exam** | 30% | | **Discussion Participation** | 5% | | **Total** | **100%** |  |  |  |  |  | | --- | --- | --- | --- | | **Letter Grade** | **Percentage** | **Letter Grade** | **Percentage** | | **A** | **93 to 100%** | **A-** | **90 to 92.9%** | | **B+** | **87 to 89.9%** | **B** | **83 to 86.9%** | | **B-** | **80 to 82.9%** | **C+** | **77 to 79.9%** | | **C** | **73 to 76.9%** | **C-** | **70 to 72.9%** | | **D+** | **67 to 69.9%** | **D** | **63 to 66.9%** | | **D-** | **60 to 62.9%** | **F** | **Less than 60%** |   **Evaluation Criteria of projects**   * **Timeliness:** The assignments should be completed on time. Please see policy for late assignments below. Deadlines are given for all assignments. * **Completeness:** All parts of a given assignment are to be submitted at the same time. However, if you have not completed an assignment by the time it is due, you are better off submitting what you have rather than nothing. * **Accuracy:** The assignment has been completed according to the directions given. The deliverable delivered is what was asked for. Program needs to be run-able. * **Content:** the format of the content will be given for each homework, assignment and exam. These guidelines need to be followed closely. |
| **Course Policies and Procedures** | ***Class participation:***  Since this is an online class, everyone is required to actively participate discussions on CANVAS and learn from each other.  ***Labs/Projects***  Projects and labs are individual work in this class. **Codes that are detected to be identical or more than 80% similar with each other will be given zero credits for all parties involved.**  Students will submit labs/projects on CANVAS. **No Email submissions will be accepted**.  ***Late Submissions***  Late submissions will suffer a **penalty of 10% per day** (up to 3 days). If you have special justified reasons that you have to turn in late, you should let me know beforehand.  ***Exam policy/Make-ups:***  A missed exam will count as zero unless the reason for missing the exam is approved by me as a valid excuse. This **approval should be gained** **in advance** except in cases of emergency.  ***Religious Beliefs Accommodation***  Board of Regents policy states that students’ sincerely held religious beliefs shall be reasonably accommodated with respect to scheduling all examinations and other academic requirements. Students must notify the instructor, within the first three weeks of the beginning of classes, of the specific days or dates on which they will request accommodation from an examination or academic requirement. For additional information, please refer to the section in the University Bulletin and the Timetable titled "Accommodation of Religious Beliefs."  ***Academic Misconduct***  The University believes that academic honesty and integrity are fundamental to the mission of higher education and of the University of Wisconsin System. The University has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others’ academic endeavors. Students who violate these standards are subject to disciplinary action. UWS Chapter 14 identifies procedures to be followed when a student is accused of academic misconduct. For additional information, please refer to the section in the Student Handbook titled "Student Academic Disciplinary Procedures."  ***University Statement***  The University of Wisconsin—Whitewater is dedicated to a safe, supportive and non-discriminatory learning environment. It is the responsibility of all undergraduate and graduate students to familiarize themselves with University policies regarding Special Accommodations, Misconduct, Religious Beliefs Accommodation, Discrimination and Absence for University sponsored events. (For details, please refer to the Undergraduate and Graduate Timetables; the "Rights and Responsibilities" section of the Undergraduate Bulletin; the Academic Requirements and Policies and the Facilities and Services sections of the Graduate Bulletin; and the "Student Academic Disciplinary Procedures" [UWS Chapter 14]; and the "Student Nonacademic Disciplinary Procedures" [UWS Chapter 17]). |
| **Technology requirement** | There are two applications that are used in this class:  Java Development Kit (JDK)  Eclipse for Java.  Instructions for installing these software are on Canvas |
| **My preferences** | You can always reach me through e-mail ([zhouj@uww.edu](mailto:zhouj@uww.edu)). Usually I will get you back within 24 hours. Also you are welcome to post questions on CANVAS discussion boards or have WebEx meeting appointments with me or the tutor. |