**CIS 216 – Java Programming**

**Syllabus**

**Instructor Contact Information**

**Name:** Professor Melinda Kohut

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**Phone:** (520)-494-5211

**Office Hours:** By appointment (email me for an appointment)

**Meeting Time:** Online

**Meeting Locations:** Online

**Course Purpose/Objectives:**

Concepts of problem solving using an object-oriented programming language such as Java. Topics include data types, control structures, classes, arrays, methods and argument passing, iteration, inheritance and programming and documentation style.

**Prerequisite:**

CIS120 – Survey of Computer Information Systems

**Learning Outcomes:**

1. (Comprehension Level) Summarize the types of variables and constants used in programming solutions.

2. (Analysis Level) Analyze the behavior of programs involving the fundamental program constructs.

3. (Analysis Level) Examine and explain methods, classes, objects, and advanced object techniques.

4. (Synthesis Level) Create programs that use the fundamental program constructs including standard conditional and iterative control structures.

5. (Analysis Level) Examine inheritance concepts.

6. (Evaluation Level) Evaluate exception handling instances.

7. (Analysis Level) Examine and explain file input and output functions.

8. (Application Level) Apply documentation techniques throughout the program development cycle.

9. (Synthesis Level) Create Java solutions for given business and scientific problems that apply the structural features of Java programming which include objects, classes, methods, inheritance, and input/output functions.

10. (Analysis Level) Analyze the use of arrays and Array lists in programs.

11. (Comprehension level) Locate and correct syntax and logic errors in short programs.

12. (Comprehension Level) Discuss ethical and social issues of the computing world.

**Text/Materials:**

**Text:** Introduction to Java Programming and Data Structures, Comprehensive

Version, 12th Edition

By Y. Daniel Liang

Publisher: Pearson

Supplemental Materials: 1- USB jump drive 1GB or larger

Software:

* Java JDK (Java Development Kit) – see instructions in Blackboard
* Eclipse (Feel free to use Netbeans or an editor of your choice – however, I will be using Eclipse for this class)
* Windows 10

**Teaching Methods:**

1. Lectures: Important material from the text and outside sources will be covered in class. Students should plan to take careful notes as not all material can be found in the texts or readings. Discussion is encouraged as is student-procured, outside material relevant to topics being covered.
2. CAC’s Blackboard: This course will be in Blackboard. Please check it each week for additional materials and information on assignments.
3. Assignments: The types of assignments from the book fall into the following categories: Programming Assignments and Written Assignments. Written and Programming assignments will be assigned from each chapter to help support student learning.
4. Quizzes: Chapter Quizzes will be given each week.
5. Exams: Two exams, a midterm and final, will be given. The exams will be open book/notes and will test assigned readings and material discussed in class.

**Grading:**

Letter grades will be determined using a standard percentage point evaluation as outlined below.

**Table 1: Assessments Used In Grading**

|  |  |
| --- | --- |
| Class Participation (16@10 each) | 160 |
| Programming Exercises (32@20 each) | 640 |
| Chapter Quizzes (16@10 each) | 160 |
| Exams (Mid-Term and Final @ 100 each) | 200 |
| **Total** | **1160** |

**Table 2: Grading Scale**

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

**Course Attendance Expectations and Policies:**

**Attendance:** Attendance will be taken at the beginning of each class meeting. Instructor reserves the right to drop the student if the student misses three consecutive class meetings. Online students must log in to Blackboard before **Thursday** each week.

**Withdrawal:** Student must initiate and complete the withdrawal process as outlined in the college catalog. Students who “disappear” will receive an F. Last day to withdraw from semester length classes is ***October 28, 2021*.**

**Missed Classes:** The student is responsible for the week’s assignments whether or not they are in class.

**Incomplete Policy:** Incompletes will be given only in dire circumstances (hospitalizations, etc.) AND only if at least 90% of the work for the semester has been completed AND the student currently has a passing grade.

**Contacting the Instructor:** Instructor can be contacted by e-mail or online during office hours. You message will be replied to no later than 24 to 48 hours.

**Technical Assistance:**

* CAC Customer Service Support Desk: (520) 494-5111 or at [centralhelpdesk@centralaz.edu](mailto:centralhelpdesk@centralaz.edu) for issues related to Student Affairs.
* **CAC IT Helpdesk: (520) 494-5678** or at [ITHelp@centralaz.edu](mailto:ITHelp@centralaz.edu) for issues related to Blackboard, passwords and computers.

**Electronic devices in class policy:** Cellular phones must be muted. iPods, and similar devices are prohibited in the classroom laboratory facilities. Student laptop computers may be used for lab work during class.

**Assignments:** Weekly Assignments are due on Sundays at 11:59 pm. Assignments need to be submitted to the correct assignment link in Blackboard for grading. Do NOT email assignments to the instructor.

**Homework Expectations:** For every credit hour earned for the course, the student will spend at least two hours outside of class working on coursework. (3 credits \* 2 hours = 6 hours homework). Depending on your learning styles and comfort level with computers and math, this class can take anywhere from 6 to 12 hours per week of your time. The outside-class preparation should be devoted to reading, taking chapter notes, completing assignments, programming assignments, quizzes, etc …

**Lecture and Laboratory:**

You are expected to **read each assigned chapter prior to the lecture**.

Make sure to turn in your completed assignment files to the assignment links in Blackboard. Before attaching any file, be sure it is not open in another program. Many assignments will have several files to attach. Be sure to attach all files.

**Disability Accommodations**:  Central Arizona College provides reasonable accommodations for students with documented disabilities, including documented temporary medical conditions, in compliance with Federal Law (ADA).  Students must be registered with the Student Accessibility Service office.  Students may contact the office at 520-494-5409.  The Student Accessibility Services department travels to all campuses and centers.  All information is kept confidential.

**\* Student Code of Conduct:** Prohibited conduct includes, but is not limited to the following: All forms of student academic dishonesty, including but not limited to, cheating, inventing facts or sources, causing others to be dishonest, or representing another’s words as one’s own.

Cheating is defined as the use or attempted use of information, academic work, research or property of another as one’s own. Cheating includes, but is not limited to, plagiarism, sharing knowledge during an examination, the unauthorized use of notes or other materials in an examination, of the willful disobedience of testing rules.

**\* Plagiarism:** CAC recognizes the seriousness of plagiarism, which is defined as turning in someone else's work and calling it your own. At CAC plagiarism is treated as a dishonest action, an issue of dishonorable behavior.

There are two types of plagiarism to beware of--intentional and unintentional plagiarism. Intentional plagiarism is an obvious type of cheating that includes turning in writing that you are falsely presenting as your own. It may be writing that was produced by a roommate, a spouse, an essay bought from the Internet, and passages copied from a research source such as a book, magazine, or web site. Allowing another student to copy your work is another type of intentional plagiarism.

In addition, students are expected to avoid unintentional plagiarism, which means including in your own work and passing off as your own writing, phrases, sentences, paragraphs, or more, that are only slightly changed from the original source. To avoid unintentional plagiarism, you must paraphrase properly and identify the original writer and source; this is called citing your work. Citations can be done in a few different formats, and your instructors are eager to help you learn how to cite your sources correctly. Unintentional plagiarism can also include passing off somebody else’s ideas (not just words) as your own without indicating that the idea or information came from somewhere else. Finally, unintentional plagiarism also can be allowing someone else to make significant wording alterations or editing changes to your writing.

Penalties for plagiarism, according to CAC's Violations of the Student Code of Conduct, can be severe. They may range from failure of an assignment to failure of a course, to referral to the Dean, to dismissal from a program of study. These actions are not meant to be threatening, but to ensure that students understand that the school takes plagiarism seriously. The underlying message of the CAC plagiarism policy is that instructors are committed to encouraging student writers to use source material correctly and develop the confidence to express themselves in their own unique ways.

See the college catalog for more information on this and other topics.

<http://www.centralaz.edu/Documents/catalogs/Catalog_2017-2018_ENTIRE.pdf>

**STEM** Advising (**S**cience, **T**echnology, **E**ngineering, **M**athematics)

In addition to advisors found at each campus, CAC students have access to a STEM Advisor who specializes in A.S. degrees and STEM pathways, including plans for university transfer. Whether you are interested in these fields and seeking additional information, or are already on a STEM track, it is highly recommended you speak with the STEM Advisor: Dianna Davis. Carrie is based at the Signal Peak Campus but is available to students at all campuses.

Contact information:

Dianna Davis

(520) 494-5019

[dianna.davis1@centralaz.edu](mailto:dianna.davis1@centralaz.edu) (fastest response time)

**Title IX Syllabus Statement**

Addressing Incidents of Title IX Sexual Harassment

In accordance with Title IX of the Education Amendments of 1972, Central Arizona College (CAC) prohibits unlawful sexual harassment against any participant in its education programs or activities. Sexual harassment includes quid pro quo (this for that) harassment, hostile environment, sexual assault, dating/domestic violence, and stalking. This prohibition against sexual harassment—including sexual violence— applies to students, CAC employees, and visitors to campus.

The policy of Central Arizona College (CAC) is to provide an educational, employment, and business environment free of sexual violence, unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment as prohibited by state and federal law. Incidents of sexual misconduct should be reported via in person, phone, or email to the college Title IX Coordinator, Barrington Campbell, Signal Peak Campus, office O200B; 520-494-6456/520-494-5067; titleix@centralaz.edu or barrington.campbell@centralaz.edu or any other Official with Authority, as outlined in the policy. For more information on Title IX please visit https://centralaz.edu/about-cac/titleix/. Incidents can be submitted through the following link <https://cm.maxient.com/reportingform.php?CentralAZCollege&layout_id=40>

**Note: The instructor reserves the right to make changes to this course syllabus and/or schedule to best serve the needs of this particular class.**