**OKLAHOMA CITY UNIVERSITY**

**Petree College of Art & Science**

**Computer Science & Mathematics Department**

*The Petree College of Arts & Sciences provides a supportive, student-centered learning environment. Through an interdisciplinary curriculum that promotes active learning and individualized instruction, students are encouraged to think broadly, to find their passion, to collaborate with others, and to connect with the broader community.*

**Software Engineering**

**CSCI 5403-30**

**FALL 2023**

**Hyacinthe Aboudja, Ph. D., ASSOCIATE PROFESSOR**

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| **Instructor:** | Dr. Hyacinthe Aboudja |
| **Office:** | SSM 209C |
| **Phone:** | (405)-208-5481 |
| **e-mail:** | [haboudja@okcu.edu](mailto:haboudja@okcu.edu) |
| Office Hours: | **Monday, Tuesday, Thursday** : 2:00 PM – 4:00 PM |
| **Class Days & Time:** | Monday : 6:00 pm – 9:00 pm Lecture |
| **Classroom:**  **Appointment:** | SSM 103  You can send me an email/ or phone call to request a special meeting to address any questions or concerns you need answer for. |

**Emergency Preparedness Resources: https://www.okcu.edu/main/emergency**

**Course Description:**

Study of the principles and techniques for methodical construction of quality software: project plan and management, software process, software requirements analysis, programming paradigms, module specification techniques, testing and validation procedures, and proof of program correctness. Includes a team project.

**Course Goals and Objectives:**

The overall goal is to provide students with a detailed understanding of

1. Project Management
2. UML
3. Testing
4. Deployment

Additional required reading supplements may be provided by the instructor.

No Textbook is required

Students must access and use OKCU’s online learning platform, “D2L” (Desire to Learn; <https://ocuonline.okcu.edu>) to retrieve and turn in course materials as instructed.

**Attendance Policy / Makeup Work:**

Attendance will be taken at every class period and will be reported in accordance with university policy. You are *urged* to attend every lecture and are responsible for any material presented in your absence.

Make-up exams will only be given **at the discretion of the instructor**, with documentation from the student regarding the reason for missing the exam.

**Grading:**

There will be one exam (Final) in this course. Attendance is 5% of your grade, Homework (including Lab) is worth 35% of your grade, Quiz is 10 % of your grade, and Final worth 45% of your grade.

|  |  |  |
| --- | --- | --- |
|  | Points | Percentage |
| Attendance | 8 | 5% |
| Homework (6) | 120 | 25% |
| Lab Assignment | 80 | 15% |
| Quiz | 40 | 10% |
| Final (Exam & Project) | 200 | 45% |
| Total | 448 | 100% |

92% - 100% = A

90% - 91% = A-

87% - 89% = B+

82% - 86% = B

80% - 81% = B-

77% - 79% = C+

72% - 76% = C

70% - 71% = C-

67% - 69% = D+

62% - 66% = D

60% - 61% = D-

0% - 59% = F

**Important Notes:**

1. If for some reason there is a need to alter or modify part of the content of the current syllabus, I will contact you as soon as possible via your **my.okcu.edu** school email account.
2. The information provided here is an integral part of the Academic Regulations section of the current catalogs that can be found under this link: <https://www.okcu.edu/academics/home>
3. We will use **Desire2Learn** platform (<https://ocuonline.okcu.edu/>) for this course. Announcement, assignment/lecture note, exam schedule will be posted on the site. And, also, completed assignment(s) and program(s) should be submitted through Desire2Learn.
4. Grades Related Policies, Procedures:
5. Class attendance is **mandatory**. Students are expected to attend every lecture and every lab session from the beginning to the end of the class for full credit on the attendance portion of your class grade.
6. All Homework assignments must be typed and **not hand-written**. They are due at the beginning of class. No **late assignments** nor **Make Up work** for exams are accepted unless under special unforeseen non-repetitive circumstances.
7. Artificial Intelligence has become an integral part of our life today. As consequence several have emerged, and it will be difficult to avoid them nowadays in modern life. As an example, Chat GPT being a tool that emerged from Artificial Intelligence, and its use has become very popular to solve problems. However, you are to use it with caution as a tool. Make sure that you understand the issue and question.
8. The use of generative **AI tools (such as ChatGPT, DALL-E, etc**.) are not permitted in this class when it comes to complete a creative and original work; therefore, any use of AI tools for work in this class may be considered a violation of Oklahoma City University ’s Academic Honesty policy and Student Conduct Code, since the work is not your own. The use of unauthorized AI tools will result in appropriate code of ethics rules’ enforcement.
9. Incomplete grade cases will be decided based on the university regulation policy clearly stated in the current catalog.
10. **Standard Expectations:** It is your responsibility to keep up with the flow of the class and to maintain a healthy learning environment for your benefit and for respect to everybody else in the class by following the most common basic rules.
11. C**lass Participation:** Students are encouraged to actively participate in discussions and can be called upon during lectures. When you miss a class, make sure you get the material covered from one of your classmates. So please make new friends.
12. **Reading Assignments:** You are required to keep up with the associated reading material for this class. Any material that has been assigned to you may be tested with a quiz.
13. **Written Homework: ( to be submitted on D2L not attached to email )** They will consist of some problems solving exercises extracted from the textbook or from the lecture that I judge important. Your homework must be **typed**.

**NO HOMEWORK IS ACCEPTED THROUGH EMAIL**

* + - Your name should be on the first line followed by the name and number of the homework. (Example: **CSCI 5003-01 Homework # 1**). Your answers should be neat and written with good English. The questions/problems will be answered in the order that they have been assigned with their number clearly indicated. If these requirements are not met, points will be deducted.
    - **Quizzes:** Always come prepared for a quiz on the topic covered during the previous lecture. They may be at the beginning or the end of a class period.
    - **Programming Assignment:** You will have to write at least one program each week during our laboratory session. Make sure that you submit your own work. Hard deadline is set for submission. It will not be accepted late.
    - **Midterm Exams:** The tests will be like the homework and quiz, and anything we discussed in class. If you do your homework, attend classes on a regular basis, good grades are guaranteed. A guideline will be provided to you to prepare for the tests. All exams are closed book.

* + - You are responsible for all **assignments** to be turned in on time and every material of your assignments must be your own work. If there is any problem to turn in late, please contact me.

1. Early midterm/final **exams** are prohibited. Quizzes are unannounced comprehensive short exams on previous lecture or class meeting content. OKCU Cheating/Plagiarism Policy will be strictly applied on assignment/exam/project.
2. I will take **attendance**. More than three times of coming late for class will be treated as one time of missing class, and over three times of missing class will degrade the grading scale by one level down.
3. If you have any academic **complaints**, it is encouraged to utilize the internal complaint policies through the Office of the Provost/Vice President for Academic Affairs prior to filing a complaint with any external entity. For more details: <https://www.okcu.edu/academics/home>.
4. **Civil Rights, Equity, and Access**
   1. **Nondiscrimination Policy**
      1. The Nondiscrimination Policy prohibits discrimination in the University community, including students, faculty, staff, guests, and visitors. Acts of discrimination, harassment based on a protected category, may limit, deprive, or deny educational/employment access, benefits, and opportunities. This policy prohibits discrimination based on race, ethnicity, national origin (including ancestry), religion, sex, gender identity, gender expression, sexual orientation, pregnancy, age, disability, domestic violence victim status, veteran, or military status, and other protected categories under federal law. For a complete list of prohibited forms of discrimination, definitions, and examples, please visit University Policies Oklahoma City University to access the Nondiscrimination Policy.
      2. The University’s Civil Rights Investigator, Dr. Kristi Pendleton, oversees prevention and response programs addressing discrimination in our community. To make a report, ask questions, or learn more, please contact Dr. Kristi Pendleton at (405) 208-6301 or at [kapendleton@okcu.edu](mailto:kapendleton@okcu.edu).
   2. **Sexual Harassment and Misconduct (Title IX)**
      1. The Nondiscrimination Policy also prohibits all forms of sex discrimination, including sexual harassment, and stalking. That policy includes definitions and examples of these terms as well as the procedures for the investigation and resolution of Complaints. Many of these issues are also prohibited by Oklahoma criminal law and may be reported to campus or local police in addition to the University. When the University receives a report, the reporting party will be contacted by a Title IX administrator to discuss options for confidential support, support measures to address safety/access concerns, and formal and informal procedures for resolving Complaints as appropriate.   
         To make informed choices, it is important to be aware of mandatory reporting requirements for campus resources. Most University employees, including faculty, are required to report known/suspected discrimination to the Compliance Coordinator within 24 hours. Confidential options including University Counseling, pastoral counseling, the health clinic, and advocacy services can maintain privacy. They do not disclose information about reports to university officials without explicit permission. Please visit [Title IX Information - Oklahoma City University](https://www.okcu.edu/admin/hr/titleix) for more information about confidential resources, reporting options, policies and procedures, and contact information for University Title IX administrators. For emergencies, please call campus police at (405) 208-5911 or local police at 911.
   3. **Disability Accommodations (ADA / Section 504)**
      1. If you believe that you are a student with a disability and need reasonable accommodations for a documented physical, mental, learning disability, attention disorder or another disability, please register with Disability and Access Services (DAS) by filling out the Student Application at the following link: [Disability & Access Services - Oklahoma City University (okcu.edu)](https://www.okcu.edu/campus/resources/das). The DAS Staff is responsible for assessing student disability related accommodation requests. Reasonable accommodation may require early planning and is not provided retroactively, so please start this process as soon as possible. If you have general questions about reasonable accommodation, you may contact the DAS staff at (405) 208-5895 or by email at [das@okcu.edu](mailto:das@okcu.edu).
   4. **Religious Accommodation**
      1. Oklahoma City University seeks to be supportive of religious observance among the members of our diverse campus community and to be as accommodating as possible. Students should discuss with their instructor at the beginning of the semester forms of religious observance (dress, fasting, specific prayer times) that may affect their full participation in the course. Students should also compare the class schedule to their own religious calendar to determine if there will be any class days in which the student expects to be absent due to the observance of a religious holiday. Students must notify the instructor, in writing, of the expected absence within the first two weeks of the semester. The instructor will then work with the student to develop a plan to reschedule any exams, assignments, or course activities for that day. The instructor, at his/her own discretion, will provide reasonable accommodation wherever possible. Students should recognize, however, that there may be some course aspects that cannot be rescheduled or accommodated, and it will therefore rest upon the student to determine whether they wish to remain enrolled in the course or have their grade potentially affected.

In case of **emergency**, you will be notified through Blue Alert text, emails and web announcement by OKCU, and you can call 208-5911 from a campus phone or 911.

Sarkeys Science & Math building is for emergency shelter, and Activities Lawn is for exterior assembly location during this class meeting. For more shelter/assembly location on OKCU campus: <https://www.okcu.edu/main/emergency>.

9. You must beware of **tobacco/alcohol-free** in campus.

**Late Work Policy**

Individual assignments may be turned in late, but they lose a percentage of their graded

point values for each class day that they are late, according to the following schedule:

|  |  |
| --- | --- |
| On time | 0% |
| Late | 10% |
| Up to 1 class days late | 25% |
| Up to 2 class days late | 50% |
| More than 3 class days late | 100% |

**Incomplete Grade Policy:**

A grade of Incomplete (“I”) will only be assigned if a single exam cannot be completed due to documented extenuating circumstances such as hospitalization or a death in the family. The “I” will be removed in accordance with university policy stated in the 2018-19 web-based undergraduate catalog.

**Exams:**

All exams will include simple objective questions, “multiple-multiple” choice questions, pseudo code writing and short answer questions.

Students are responsible for all material covered in class and all reading and problem assignments. The best guide for exam preparation will be detailed lecture notes.

The unit exams will cover only material presented since the previous unit exam; the comprehensive final will cover all units equally.

**Projects/Programming Assignments:**

The Programming Assignments will be in Java. The grading of the Programming Assignments is a combination of completeness (all specifications are covered), correctness of results, and style. Students need to work on Projects as individuals and should NOT share code or copy other students work. All programming assignments are due at the beginning of class on the due date. I do not allow late work to be submitted unless there is prior written approval by me based on special circumstances.

**Electronics:**

Out of respect for the professor, fellow students, and class material, students should refrain from the use of electronic devices (for purposes unrelated to class) while in class.

**Syllabus Policy:**

The student is responsible for reading and understanding the policies outlined in the syllabus. The lecture schedule for the course is referred to as “tentative”, yet every effort will be made to follow the schedule as closely as possible. The lecture topic will deviate from the schedule only when certain topics require more or less time than was scheduled. If a substantial change must be made to the course schedule (such as unavoidable cancellation of a class), students will be notified via university email and on D2L.

**Tentative Lecture Schedule**

|  |  |
| --- | --- |
| **Week** | **Monday** |
| 1 | 08/21 - Lecture 01 |
| 2 | 08/28- Lecture 02 |
| 3 | 09/04 - Lecture 03 |
| 4 | 09/11 - Lecture 04 |
| 5 | 09/18 – Lecture 05 |
| 6 | 09/25 – Lecture 06 |
| 7 | 10/02 – Lecture 07 |
| 8 | 10/09 – Final |