

INSY 5309
Object Oriented Programming
Spring 2018

Instructor:

Dr. Riyaz Sikora

Office: 523 COBA

Office Hours: After Class or by appt.

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Faculty Profile: <https://www.uta.edu/profiles/riyaz-sikora>

Time/Place of Class Meetings: CRB 114 (TR: 5:30p.m. – 6:50p.m.)

Textbook:

Deitel & Deitel. Java: How to Program, Prentice Hall, Current Edition.

Description of Course Content:

Topics include object-based and object-oriented program design and processing, language fundamentals and applications involving business problems.

Student Learning Outcomes:

- The student will be able to employ the concepts of memory, variables, and references in a Java program.
- The student will be able to write structured programming statements in Java using the structured programming concepts of sequence, selection, and iteration.
- The student will be able to design and code modular programs using the constructs of classes and methods.
- The student will be able to compile and run a Java program in the Java environment.
- The student will be able to describe the differences between objects, classes, and instances.
- The student will be able to apply concrete classes, abstract classes and interface classes.
- The student will be able to write object-oriented programs to demonstrate polymorphism, composition, and inheritance.

Software

Java SDK (version 1.6) and any IDE (Eclipse, NetBeans, etc.) or text editor (Notepad/Wordpad)

Homework

There will be 6 scheduled homework assignments. All homework is due on the day specified. Late homework will not be accepted. The lowest homework score will be dropped only for the undergrads.

Exams

There will be 3 exams and a final exam during the semester each worth 25%. The lowest exam score from the 4 exam scores will be dropped. The exams will be closed book and will contain coding problems.

Grade Structure:

| | |
|-----------------------------------|-----|
| Three Best Exams (each worth 25%) | 75% |
| Homework Assignments | 25% |

Letter Grade Scale:

We will not be using a fixed scale for determining the letter grade. The cutoff points for different letter grades will be based on the class average and class standard deviation of the final score. The class average and standard deviation will be computed separately for undergrads and grads. **Cutoff points will be strictly enforced without any rounding.**

Cutoff for A: $(\text{Class average}) + 0.5(\text{Class standard deviation})$

Cutoff for B: minimum of {80, Cutoff for A – 10}

Cutoff for C: minimum of {70, Cutoff for B – 10}

So, to get an A your final score should be at least half a standard deviation above the class average.

Attendance:

At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section I allow students to attend class at their own discretion.

Tentative Schedule

| Week Number | Dates | Topics | Reading (9th Ed.) | Homework Due | Exams |
|--------------------|--------------|----------------------|-------------------------------------|---------------------|--------------|
| 1 | 1/16,18 | Intro & Applications | 1, 2 | | |
| 2 | 1/23, 25 | Intro & Applications | 1, 2 | | |
| 3 | 1/30, 2/1 | Control Structures | 4 | | |
| 4 | 2/6, 8 | Control Structures | 4 | 1 | 1 (2/8) |
| 5 | 2/13, 15 | Control Structures | 5 | | |
| 6 | 2/20, 22 | Control Structures | 5 | 2 | |
| 7 | 2/27, 3/1 | Methods & OOP | 6, 3, 8 | | |
| 8 | 3/6, 8 | Methods & OOP | 6, 3, 8 | 3 | |
| 9 | 3/20, 22 | OO Programming | 8 | | 2 (3/20) |
| 10 | 3/27, 29 | OO Programming | 8 | 4 | |
| 11 | 4/3, 5 | OOP & Arrays | 9, 7 | | |
| 12 | 4/10, 12 | OOP & Arrays | 9, 7 | 5 | |
| 13 | 4/17, 19 | OOP & Strings | 10, 16 | | |
| 14 | 4/24, 26 | OOP & Strings | 10, 16 | 6 | 3 (4/24) |
| 15 | 5/1, 3 | Last Class Week | | | |
| 16 | 5/8 | Final Exam | | | 4 |

UNIVERSITY POLICIES

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://wwweb.uta.edu/aao/fao/>).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a **letter certified** by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting: **The Office for Students with Disabilities, (OSD)** www.uta.edu/disability or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.

Counseling and Psychological Services (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

Non-Discrimination Policy: *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.*

Title IX Policy: The University of Texas at Arlington (“University”) is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. *For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.*

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code in their courses by having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University. Additional information is available at <https://www.uta.edu/conduct/>.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

Student Feedback Survey: At the end of each term, students enrolled in face-to-face and online classes categorized as "lecture," "seminar," or "laboratory" are directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback via the SFS database is aggregated with that of other students enrolled in the course. Students' anonymity will be protected to the extent that the law allows. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law and aggregate results are posted online. Data from SFS is also used for faculty and program evaluations. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: for semester-long courses, a period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, [which is located \[insert a description of the nearest exit/emergency exit\]](#). When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

THE INSTRUCTOR RESERVES THE RIGHT TO MAKE CHANGES TO THE SYLLABUS AS NECESSARY; IT IS THE STUDENT'S RESPONSIBILITY TO BE AWARE OF THESE CHANGES.