

INSY 4305 Section 002
Advanced Application Development
Fall 2018

Instructor: Dr. Ezgi Akar

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Office Hours: 9:30 – 10:30 AM Tuesdays & Thursdays

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Section Information:

INSY 4305 Section 002

Advanced Application Development

Time and Place of Class Meetings: COBA 254W on MoWe at 05:30 – 06:50 PM

Description of Course Content: This is a comprehensive Java programming course that not only covers the fundamental object-oriented programming (OOP) topics but also includes advanced Java programming concepts. Topics include structured programming concepts like control structures and methods as well as OOP concepts like encapsulation, composition, inheritance, polymorphism, dynamic binding, and interfaces. The course will also cover Swing components, exception and error handling, and the basics of file processing.

Student Learning Outcomes:

1. The student will be able to write structured programming statements in Java using the structured programming concepts of sequence, selection, and iteration.
2. The student will be able to write object-oriented programs to demonstrate polymorphism, composition, and inheritance using concrete classes, abstract classes, interfaces and exception handling.
3. The student will be able to apply Java FX components to a graphical user interface.
4. The student will be able to write programs to open a file and read/write data from/to that file.

Required Textbooks and Other Course Materials

Java How to Program Early Objects, 11th edition, by Deitel and Deitel, Prentice Hall, 2018.

You are expected to read and study this textbook! You will be responsible for any assigned material in the textbook regardless of class coverage. So, if you do not understand the material, be sure to ask your instructor.

If you use a previous version of the text, it is your responsibility to keep track of the differences between the texts. All assignments, readings, and lectures come from the recommended text and the instructor is not responsible for mapping the old text to the new text. There is no guarantee that the older text will be exactly like the recommended text.

- You can download the latest version of Java at <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>.
- You want the Java SE Development Kit 8u151. Choose the correct executable for your machine. Installation instructions are at https://docs.oracle.com/javase/8/docs/technotes/guides/install/windows_jdk_install.html#CHDEBCCJ.

Descriptions of Major Assignments and Examinations: There will be five assignments, two exams, and one comprehensive final. See the tentative schedule below for further details. You are responsible for everything that is covered in the classroom, including additional materials that the instructor may discuss in class.

You will have five assignments. Assignments must be turned in electronically (via BlackBoard) as instructed. There will be no makeup assignment or assignment for extra credit. **Late assignment will not be accepted.** Late submissions will receive a score of 0 (no exceptions).

Exams will be multiple choice, true/false, fill in the blanks and coding. You **may not** use your computer, laptop, smartphone, or any other device during the exam. All exams will be closed book/no notes. If you have any question concerning a grade you receive in an exam, it is your responsibility to inform me within one week of the exam being returned to you. Grades will not be discussed after that time.

Attendance: At the University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator in student success. 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 consider attendance mandatory for all lectures. If you miss a class, you are responsible for the materials covered.

Pop quizzes may be given during the semester. Quiz scores may be used towards Extra Credit upon the instructor's discretion. If you miss a pop quiz, there will be no makeup quizzes (no exceptions). However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients "begin attendance in a course." UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student, a grade of F, faculty report the last date a student attended their class based on evidence such as a test, participation in a class project or presentation, or an engagement online via Blackboard. This date is reported to the Department of Education for federal financial aid recipients.

Other Requirements

Prerequisite: INSY 3300 – INTRODUCTION TO PROGRAMMING.

An introductory programming course that teaches students how to solve business problems using the scripting language, Python. Students will be exposed to object-oriented programming concepts, file handling, database access, and graphical user interfaces. Prerequisite: INSY 2303.

Grading

The distribution of points will be as follows:

Exam 1	25%
Exam 2	25%
Final	35%
Assignment	15%

The following criteria will be used to assess your grade:

>= 90	A	>= 80	B	>= 70	C	>= 60	D	< 60	F
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"Incomplete" Grades

A grade of incomplete will only be given under extraordinary unforeseen circumstances at the instructor's discretion and must be approved prior to the end of the course. Poor performance, absences, forgetting to drop, or travel are not considered sufficient grounds for incompletes. Instructors are not obligated to give "incomplete" grades. To receive an incomplete, 95% of the course must have been completed.

Make-Up Exams

There are **no make-up exams**. Under extenuating circumstances (e.g., medical emergency, family emergency, work-related travel, etc.), the score on the final exam will replace the missed exam score. You can only use this excuse for **one exam**. Acceptable documentation must be provided within a week of the missed exam. If documentation is provided later, it may not be accepted.

Expectations for Out-of-Class Study: Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 9 hours per week of their own time in course-related activities, including reading required materials, completing assignments, and preparing for exams/quizzes.

UNIVERSITY AND COLLEGE POLICIES

Grade Grievances: We will follow the procedures and deadlines for grade-related grievances as published in the current University Catalog.

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://www.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. Michelle Willbanks, Title IX Coordinator at (817) 272-4585 or titleix@uta.edu.

Academic Integrity: Students enrolled in this course 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/>. Faculty are encouraged to discuss plagiarism and share the following library tutorials <http://libguides.uta.edu/copyright/plagiarism> and <http://library.uta.edu/plagiarism/>.

Cheating is not acceptable and will be handled in accordance with the policy and procedures of the University of Texas at Arlington. **If a student is caught cheating, he/she will receive a 0 for that quiz/assignment/exam. If the student is caught cheating a second time, he/she will receive an F in the course and the issue will be referred to the Office of Student 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>. As instructor I will only respond to MavMail emails.

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 classes categorized as “lecture,” “seminar,” or “laboratory” shall be 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 enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: 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, located to the right and left of the exit through the main classroom door. 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.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include [tutoring](#), [major-based learning centers](#), developmental education, [advising and mentoring](#), personal counseling, and [federally funded programs](#). For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at <http://www.uta.edu/universitycollege/resources/index.php>.

<p>Emergency Phone Numbers: In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911. Non-emergency number 817-272-3381</p>

COURSE SCHEDULE

WEEK	CONTENT/READING/EVENT	ASSINGMENT/EXAM
1 (Aug 22)	Chapter 2	
2 (Aug 27-29)	Chapter 2, Chapter 3	
3 (Sept 3-5)	Chapter 4 Labor Day Holiday September 3 Census Date September 7	Assignment 1 (Due Sept 14, 11:59 pm)
4 (Sept 10-12)	Chapter 4, Chapter 5	
5 (Sept 17-19)	Chapter 5, Chapter 6	
6 (Sept 24-26)	Chapter 7	Assignment 2 (Due Oct 5, 11:59 pm) Exam 1 – Sept 26 Wednesday (Chapters 2,3,4,5,6)
7 (Oct 1-3)	Chapter 7, Chapter 8	
8 (Oct 8-10)	Chapter 8, Chapter 9	Assignment 3 (Oct 19, 11:59 pm)
9 (Oct 15-17)	Chapter 9, Chapter 10	
10 (Oct 22-24)	Chapter 11	Assignment 4 (Due Nov 2, 11:59 pm)
11 (Oct 29-31)	Chapter 14 Last Day to Drop November 2	
12 (Nov 5-7)	Chapter 14, Chapter 15	
13 (Nov 12-14)	Chapter 15	Exam 2 – Nov 14 Wednesday (Chapters 7,8,9,10,11)
14 (Nov 19-21)	Chapter 26 Thanksgiving Holiday November 21	Assignment 5 (Due Nov 28, 11:59 pm)
15 (Nov 26-28)	Chapter 26	
16 (Dec 3)	Final Exam Review December 4 Last Day of Classes	
Final Exam	December 7 (05:30-08:00 PM)	Final exam will be comprehensive

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Ezgi Akar