INSY 4305  Advanced Application  Development  Spring 2019

Grading Policy:
Exam(s)& Quizzes - 60 %
Assignments & Projects - 30 %
Attendance/Class Participation -10%

NO AUDIO OR VIDEO RECORDING ALLOWED IN CLASS.
No Cell Phone Usage allowed in Class.
No outside material or electronic devices allowed during exams.

Proposed Course Schedule: The schedule below is a subject to change as needed.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>1/14,1/16</td>
<td>Introduction to Java Applications; Input/Output and Operators - Ch.2</td>
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<tr>
<td>2</td>
<td>1/22</td>
<td>(1/21-Holiday) Introduction to Classes- Ch3</td>
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<tr>
<td>3</td>
<td>1/28,1/30</td>
<td>Control Statements - Part1 &amp; 2 (Ch4, Ch5)</td>
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<tr>
<td>4</td>
<td>2/4,2/6</td>
<td>Methods- A Deeper Look - Ch.6</td>
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<tr>
<td>5</td>
<td>2/11,2/13</td>
<td>Review and Exam-1(Wednesday) - Chapters 2,3,4,5</td>
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<tr>
<td>6</td>
<td>2/18,2/20</td>
<td>Arrays and Array Lists - Ch.7</td>
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<td>7</td>
<td>2/25,2/27</td>
<td>Classes and Objects - A Deeper Look - Ch.8</td>
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<td>8</td>
<td>3/4,3/6</td>
<td>Inheritance - Ch.9</td>
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<td>9</td>
<td>3/11,3/13</td>
<td>** Spring Break **</td>
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<tr>
<td>10</td>
<td>3/18,3/20</td>
<td>Polymorphism and Interfaces - Ch.10</td>
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<tr>
<td>11</td>
<td>3/25,3/27</td>
<td>Review &amp; Exam-2(Wednesday) (Chapters 6,7,8,9)</td>
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<tr>
<td>12</td>
<td>4/1,4/3</td>
<td>Exception Handling - Ch.11</td>
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<td>13</td>
<td>4/8,4/10</td>
<td>GUI Components - Part.1- Ch12</td>
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<td>14</td>
<td>4/15,4/17</td>
<td>Graphics and Java 2D - Ch.13</td>
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<tr>
<td>15</td>
<td>4/22,4/24</td>
<td>Review &amp; Exam-3(Wednesday) (Chapters 10,11,12,13)</td>
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<td>16</td>
<td>4/29,5/1</td>
<td>Strings and Characters - Ch.14</td>
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<td>17</td>
<td>May 8 -</td>
<td>FINAL EXAM- 5:30PM (Chapters 2 thru 14)</td>
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<td>Wednesday</td>
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</table>

Programming Assignment Rules and Guidelines:

- All assignments are individual assignments.
• You should do the assignment by yourself, without help or assistance from your classmates or others.
• Students in the class are NOT allowed to help others in the class with the PROGRAMMING LOGIC for the solution of the assignment.
• You can not share, exchange or email code used in the assignment.
• You can not help another student write the code for their assignment or write code for them
• You have to debug the program yourself. You can not send it or show it to another student or other persons. You can not send code to the instructor for debugging!
• You can not get code from another person in the class
• If your code is identical or too similar (except for variable names etc) as another person, both your assignment and the matching assignment from the other student(s) will receive zero credit and you maybe subject to plagiarism action
• DO NOT SHARE or COPY from another student.
• DO NOT WRITE CODE OR HELP WRITE CODE OR LOGIC for another student.

INSY 4305 Spring 2019

Instructor: Dr. M. K. Raja

Office Number: Business Building Room 522

Office Telephone Number: 817-272-3540

Email Address: raja at uta dot edu

Faculty Profile: https://mentis.uta.edu/public/#profile/profile/edit/id/1033/category/1

Office Hours: Mondays and Wednesdays: 4:30-5:30 PM. Other days by appointment

Section Information: INSY 4305-002

Time and Place of Class Meetings: M& W 5:30-6:50 Room 255 COB

Description of Course Content: This course will introduce advanced application development principles and techniques for developing Object-Oriented systems using Java. This course introduces concepts of designing and developing Java applications using command line and an IDE. The course will cover a range of topics starting with simple problem solving using Java code to more complex applications using various techniques and objects available in Java. Applications will include using various data structures and framework classes.

Student Learning Outcomes:

Upon successful completion of this course, the student will:
• Understand basic principles of Object-Oriented program development
• Know what classes and objects are and how to use them in an application.
• Understand how to design, code, test and implement complete Java applications
• Understand class structures and design used in the Java Libraries.
• Familiarity with the Java Framework classes and structures and how to use them in applications
• Know the activities involved in designing, developing, testing, debugging and implementing Java applications

Required Textbooks and Other Course Materials: NONE - Text Book is optional

Printed Book - Available at UTA Bookstore

Deitel & Deitel ©2018 | Pearson | 1296 pp

Option-2: Online/eBook (www.pearsonhighered.com)
Deitel & Deitel ©2018

Descriptions of major assignments and examinations: There will be 3 Exams, Pop Quizzes and a Final Exam. You will be assigned between 5 and 9 assignments during the semester. Please see the schedule above (top of this page) for the dates of exams. The dates for the assignments will be posted on Blackboard during the semester.

Other material:

Software - Please download Java-8 from the following link: https://jdk8.java.net/download.html

JDK installation Instructions:
http://docs.oracle.com/javase/7/docs/webnotes/install/index.html

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 will take attendance sporadically.

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:** All assignments are INDIVIDUAL assignments. Assignments must be submitted on Blackboard on time. Late assignments will incur penalty.

**Grading:**

Exam(s) & Quizzes - 60%
Assignments & Projects - 30%
Attendance/Class Participation - 10%

**Make-up Exams:** NO MAKE UP EXAMS or Quizzes ARE OFFERED IN THIS CLASS.

**Expectations for Out-of-Class Study:** For each of class period you will be expected to study and work on assignments for 3 hours.

**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://wweb.uta.edu/aaofao/).

**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](http://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](http://www.uta.edu/disability).

**Counseling and Psychological Services, (CAPS)** [www.uta.edu/caps/](http://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.

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.

**Student Support Services:** [Required for all undergraduate courses] 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.

**The IDEAS Center** (2nd Floor of Central Library) offers free tutoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593.

**The English Writing Center (411LIBR):** [Optional.] The Writing Center Offers free tutoring in 20-, 40-, or 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Our hours are 9 am to 8 pm Mon.-Thurs., 9 am-3 pm Fri. and Noon-6 pm Sat. and Sun. Register and make appointments online at http://uta.mywconline.com. Classroom Visits, workshops, and specialized services for graduate students are also available. Please see www.uta.edu/owl for detailed information on all our programs and services.

The Library’s 2nd floor Academic Plaza offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library’s hours of operation. http://library.uta.edu/academic-plaza

**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

Active Shooter - How to Respond Link: http://police.uta.edu/activeshooter

Active Shooter - How to Respond

**Stop. Think. Protect Yourself. You Have Choices.**
The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor.

This graphic provides each member of the UTA community with information and options for responding to an active threat. These options are not chronological, but are designed to address dynamic situations. Assess the situation (your location, the location of the threat, type of threat, etc.), identify and weigh your options, develop a plan of action and commit to it.

### You Have Choices!

<table>
<thead>
<tr>
<th><strong>AVOID</strong></th>
<th><strong>DENY</strong></th>
<th><strong>DEFEND</strong></th>
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</table>
| - AVOID the situation. Stay away from the area and campus.  
- If you can safely leave the area, RUN.  
- Get others to leave the area, if possible.  
- Prevent others from entering the area.  
- Know your exit and escape options.  
- If in a parking lot, get to your car and leave.  
- If in an unaffected area, stay where you are.  
- When you are safe, call UTA PD at 817. 272.3003 or 911 with information you have.  
- Silence phones and remain quiet. Don’t let your phone give you away.  
- HIDE and take cover to protect yourself.  
- Be prepared to run or defend yourself.  
- Use physical force and any weapons available - fire extinguishers, books, chairs, belts, umbrellas, pens/scissors, hot coffee/drinks, trash cans, etc.  
- Use the element of surprise.  
- Work together as a team. Develop a plan. Commit to your actions. Your life depends on it.  
- Be aggressive, loud, and determined in your actions.  
- As a last resort, FIGHT for your life.  
- Use physical force and any weapons available - fire extinguishers, books, chairs, belts, umbrellas, pens/scissors, hot coffee/drinks, trash cans, etc.  |

For more information, go to: [police.uta.edu/activeshooter](http://police.uta.edu/activeshooter)

Police Department  
The University of Texas at Arlington  
Emergency: 817.272.3003  
Non-Emergency: 817.272.3381  
police.uta.edu
Additional information for active threat and other emergency situations can be found through the links below:

[police.uta.edu/activeshooter](police.uta.edu/activeshooter)

[police.uta.edu/em](police.uta.edu/em)