Introduction to Computers and Programming
Spring 2019

Instructor: Alexandra Stefan
Office Number: ERB 625
Email Address: astefan@uta.edu
Faculty Profile: http://vlm1.uta.edu/~alex/
Office Hours: Mon, Wed: 2:30 – 3pm, Tue,Thu: 12:30-1:30pm.

Time and Place of Class Meetings: MW 1-2:20pm, NH 111

Description of Course Content: This course introduces students to computers, to the algorithmic process, and to programming using basic control and data structures. The programming language: Java.

Student Learning Outcomes:

- Students will be able to develop algorithms for math functions (e.g. the factorial), processing of strings and lists, games (e.g. Tic-Tac-Toe, The Hangman ) or basic functionality (e.g. a phonebook).
- They will be able to write and debug programs that implement the above mentioned algorithms.
- When reading Java code, students will be able to explain what each line of code does and how it affects the computer state.
- Students will be able to read and write text files using Java.

Required Textbooks and Other Course Materials: Big Java Late Objects, by Cay S. Horstmann. Either the 1st or the 2nd editions are fine. The 1st edition is accessible in several versions: printed textbook (regular and loose leaf), electronic book only, electronic book with brief printed companion.

There may be other venues and options such as renting it from Amazon.

Prerequisites: All students are expected to have passed College Algebra.

Attendance: At The University of Texas at Arlington, taking attendance is not required. As the instructor of this section, I have elected to take attendance, but will not factor attendance into the grade.

Other Requirements: Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend an additional 12 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.

Grading policy and descriptions of major assignments and examinations: Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels; see “Student Support Services” below.

Grading scheme:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Departmental Final exam on Monday, May 6, 5:30-8pm</td>
<td>30% &amp; pass</td>
<td>Room will be decided.</td>
</tr>
<tr>
<td>Midterm exam 1</td>
<td>15%</td>
<td>In class, cumulative</td>
</tr>
<tr>
<td>Midterm exam 2</td>
<td>15%</td>
<td>In class, cumulative</td>
</tr>
<tr>
<td>In class Quizzes</td>
<td>15%</td>
<td>In class, ~3, cumulative</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
<td>Programming assignments: ~9</td>
</tr>
</tbody>
</table>
Blackboard quizzes (and other participation) | 5% | ~weekly in the first ½ of the semester

The letter grades will be assigned based on the standard grading scheme: \( \leq 90(A) \), \( \leq 80(B) \), \( \leq 70(C) \), \( \leq 60(D) \). The instructor reserves the right to lower these thresholds, based on the distribution of final percentages. E.g., Fall 2018 cutoffs were : \( \leq 90(A) \), \( \leq 80(B) \), \( \leq 65(C) \).

Any request for re-grading (for an assignment or midterm exam) must be made within 5 days of receipt of that grade. In case of regrading, the instructor reserves the right to regrade the whole assignment or exam. Requests of regrading the final exam must be done within 1 day of receipt of that grade.

IMPORTANT: It should be clear to every student that course grades will depend EXCLUSIVELY on the above grading criteria. Students should not request nor expect any other factor to be considered in computing the course grade. For example, factors that will NOT be considered are: need of a better grade to keep financial aid, to stay in the program, or to graduate. Students are expected to carefully monitor their own performance throughout the semester and seek guidance from available sources (including the instructor) if they are concerned about their performance and the course grade that they will earn.

Make-up Exams: Make-up exams or any other additional work towards "improving ones grade" will not be offered.

Class expectations: before coming to class, students should have reviewed and understood the previous lecture. After each lecture they should type and run the programs covered in class.

Unless a medical note is provided, restroom breaks during an exam will have a 2 point per minute penalty.

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog: http://catalog.uta.edu/academicregulations/grades/#undergraduatetext

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/aao/fao/).

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.

I will use MyMav email and/or Blackboard for announcements (including homework and exam updates). Make sure you check both of these regularly.

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). Please provide this letter before Census Date and meet with the instructor in person to discuss the accommodations you need. Students who plan to take the exam with the ARC center should schedule the exam as soon as possible in order to be able to take it at the same time as the class.
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.

**Counseling and Psychological Services, (CAPS)** [www.uta.edu/caps](http://www.uta.edu/caps) or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. 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) or by calling the Office for Students with Disabilities at (817) 272-3364.

**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 as they see fit in their courses, including (but not limited to) 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.

*The penalty for cheating or collusion in a homework or exam is a grade of 0 (for the entire exam or homework).*

*In cases of collusion, BOTH students are reported to the Office of Student Conduct. I simply report the case to this office and they will investigate and make a final decision.*

*You should not store your code or homework solutions on any public, unsecure domain such as GitHub (I reported a case involving code posted on GitHub). You can use password protected cloud services such as Google Drive. Note that if you make your solutions available to others in such a way, and another student copies your solution, you will be held accountable together with the student who used your solution.*

*During exams, please look only at your page or the board. If you tend to look around, or somehow look aside, take a seat such that you will not be looking towards any another student(s).*

*If needed, I will take the following actions during an exam:*

- Take pictures of the classroom in order to have proof and memory of the students seating. (Let me know if you have a problem with this.)

- Move to the front row any student that seems to look around. (This is a subjective call.) If you were moved for one exam, you will have to stay in the front row for the following exams as well.

- Mark an exam sheet if the student did something that was not allowed (e.g. look in notes in a closed book exam).

*I may report students for cheating in an exam, if I find suspiciously similar answers for students who sat next to each other.*

*Considering all these actions that I may take during an exam, if at any time you are concerned, please do not hesitate to ask me to clarify what is going on!*
Course Schedule and important dates – see the course webpage.

Topics list
- Introduction, IDE (CoolBeans), Java, First program
- Output (printf), error messages, create a program from existing code
- Variables, types, operations on numbers,
- Strings, formatted output
- If statements
- Loops, flow of control, nested loops
- Debugger
- Type of Problem: Property in Collection
- Methods: execution, variable scope, debugger, common errors
- Arrays and Array Lists
- ?? Exceptions and Input Validation ??
- File Input/Output
- Number Representation in different basis
- Recursion
- Manipulating files and directories from Java programs
- Practice

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. – Alexandra Stefan

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.

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. The last homework may be due in the Final Review Week.
**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 on the left. See this map:** [https://www.uta.edu/campus-ops/ehs/fire/Evac_Maps_All/Evac_NH/Evac_NH_111.pdf](https://www.uta.edu/campus-ops/ehs/fire/Evac_Maps_All/Evac_NH/Evac_NH_111.pdf)

When exiting the building during an emergency, one should never take an elevator but should use the stairwells.

**Student Success:** 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/studentsuccess/learning-center/utsi/tutoring/index.php](http://www.uta.edu/studentsuccess/learning-center/utsi/tutoring/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.
- **Supplemental Instruction** (SI) leader – We will have an SI leader for this class.

**The English Writing Center (411LIBR):** Hours are 9 am to 8 pm Mondays-Thursdays, 9 am to 3 pm Fridays and Noon to 5 pm Saturdays and Sundays. Walk In **Quick Hits** sessions during all open hours Mon-Thurs. Register and make appointments online at [http://uta.mywconline.com](http://uta.mywconline.com). Classroom Visits, Workshops, and advanced services for graduate students and faculty are also available. Please see [www.uta.edu/owl](http://www.uta.edu/owl) for detailed information.

**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

---

Library Home Page.......................... [http://www.uta.edu/library](http://www.uta.edu/library)
Subject Guides ............................. [http://libguides.uta.edu](http://libguides.uta.edu)
Course Reserves ............................ [http://pulse.uta.edu/vwebv/enterCourseReserve.do](http://pulse.uta.edu/vwebv/enterCourseReserve.do)
Connecting from Off-Campus................[http://libguides.uta.edu/offcampus](http://libguides.uta.edu/offcampus)
Ask A Librarian .............................. [http://ask.uta.edu](http://ask.uta.edu)