Data Structures

Spring 2018

# Instructors

Dr. Erhan Guven [eguven2@jhu.edu](mailto:eguven2@jhu.edu) Discussions

Dr. Scott Cost [cost@jhu.edu](mailto:cost@jhu.edu) Homework and programming assignments

Dr. Eleanor Chlan [chlan@jhu.edu](mailto:chlan@jhu.edu) Course logistics, content, office hours, quizzes, prompts, final exam, COURSE DEVELOPER

Blackboard Outline

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| Home |  |
| Getting Started |  |
| Welcome | What is a “service course”?  Learn “tools of the programmer’s trade” in addition to data structures  Expect to spend 10-12 hours per week  Belong to two groups:   1. The section actually registered for 2. A discussion group |
| How to Best Succeed in This Course | Modules include   1. Overview 2. Deliverables 3. Content 4. Readings 5. Quizzes 6. Discussions 7. Assignments   Preview all sections of module before starting  **Consider forming a study group**  Make an honest effort to answer questions posed during module lectures  Jot down answers to discussion prompts as you go through  \*\*\* Know discussion prompts BEFORE doing lectures \*\*\*  Weekly schedule:   * Wed – start new content * Thu – office hours at 9pm * Thu to Sun -- \*post to discussion forums\* on different days * Sun – two or more posts to EACH discussion question due. Office hours at 9pm * Mon – office hours at 8pm * Tue – final postings, now three or more, due. All other work for module is due |
| How to Begin | 1st assignment: post to thread “Discussion for Module 0”  2nd assignment: read everything on website under “Syllabus and Course Information”  3rd assignment: complete Module 0  4th assignment: purchase textbook  5th assignment: install software AND become familiar with it!   * Java * IDE * Zoom? * Adobe Connect |
| Course Contact Info |  |
| Contact Information | I am in section 87  Full reference for course is: EN.605.202 (87)  Grader is Eric Farmer, [efarmer6@jhu.edu](mailto:efarmer6@jhu.edu)  All emails MUST include   * Name of intended recipient in body of email * Section number in subject line * Course name in subject, too * If urgent prefix with URGENT |
| Announcements |  |
| Syllabus and Course Information |  |
| Syllabus | Stuff to know about Java:   * Basic OOO * Dynamic references * File I/O   Additional book for reference  Augenstein, M. J., Langsam, Y., & Tenenbaum, A. M. (2003).  Data Structures Using Java.  New York, NY: Prentice Hall.  ISBN10: 0130477214  ISBN-13: 978-0130477217 |
| Learning Guide | Extracted from syllabus, a checklist of everything that should be done for a module, in order |
| Course Outline |  |
| Instructor Biographies |  |
| Discussion Rubric |  |
| References |  |
| Programming Assignments Guidelines |  |
| Programming Resources |  |
| Project 0 (zip file) |  |
| Error Handling and Exceptions.pdf |  |
| JavaCodeConventions.pdf |  |
| Sample IDE Session using NetBeans |  |
| About Feedback |  |
| Course Resources |  |
| Algorithms and Complexity |  |
| Big O Cheat Sheet |  |
| Notes on Time and Space Complexity |  |
| Calculating Space Complexity |  |
| Complexity of Various Sorting Algorithms |  |
| Calculating Space Complexity |  |
| Complexity Analysis |  |
| Contact Information |  |
| Grade Center |  |
| Calendar |  |
| Course Modules |  |
| Module 0: Introduction |  |
| Module 0 - Introduction |  |
| Overview |  |
| Module Deliverables |  |
| Check List for this Module |  |
| Avatar |  |
| Check Your Time and Availability |  |
| Text book |  |
| Verify Zoom and Adobe Connect |  |
| Know the Course Website |  |
| Honor Pledge |  |
| Vocabulary List |  |
| Cartoon |  |
| Slides - alternate formats |  |
| Office Hour Recordings |  |
| Discussions |  |
| Groups |  |
| Programming Resources |  |
| Course Resources |  |
| Adobe Connect - Eleanor |  |
| OH - Zoom - Eleanor |  |
| Email |  |
| Help & Support |  |
| Sheridan Libraries |  |