Summer 2016 COP 2512

IT Programming Fundamentals

Course Policies and Outline

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Office Hours: Tuesday/Thursday – 10:30 AM to 12:30 PM.

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Course Textbook: Introduction to Java Programming, Brief Version, 10E. Daniel Liang.

Pre-requisites: N/A

Description: An examination of computer programming using a modern high-level language

Course Objectives:

On successful completion of this course, students will be able to:

1. Understand basic concepts of programming and their relevance to the IT professional
2. Use branching instructions and decision patterns,
3. Use iterative instructions and iteration patterns,
4. Apply structured design methods to design modest programs,
5. Use arrays and implement related algorithms,
6. Debug and test programs

Learning Outcomes:

Achievement of the above objectives will be measured by a student's ability to:

1. Write programs in a modern programming language to solve IT-related problems while demonstrating an understanding of correct syntax, semantics, primitive data types, and operations on primitive data types.
2. Write a program in a modern programming language that uses branching instructions to solve an IT-related problem
3. Write a program in a modern programming language that uses iterative instructions to solve an IT-related problem
4. Write a program in a modern programming language by using structured design principles to solve an IT-related problem.
5. Write a program in a modern programming language that uses arrays to solve an IT-related problem
6. Debug and test programs to find both design and implementation errors

**Tentative Schedule:**

The following is a tentative timeline to be followed in the course. It may be modified during the course of the semester.

<table>
<thead>
<tr>
<th>Week Number</th>
<th>Start Date</th>
<th>Topics to be Covered</th>
<th>Graded Quizzes</th>
<th>Programming Projects</th>
<th>Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>05/16/16</td>
<td>Getting Started</td>
<td>Quiz 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 2</td>
<td>05/23/16</td>
<td>Introduction to RAPTOR</td>
<td>Quiz 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 3</td>
<td>05/30/16</td>
<td>Advanced RAPTOR</td>
<td>Quiz 3</td>
<td>Programming Project 1</td>
<td>Test 1</td>
</tr>
<tr>
<td>Week 4</td>
<td>06/06/16</td>
<td>Introduction to JAVA</td>
<td>Quiz 4</td>
<td></td>
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<tr>
<td>Week 5</td>
<td>06/13/16</td>
<td>Methods and Arrays</td>
<td>Quiz 5</td>
<td>Programming Project 2</td>
<td>Test 2</td>
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<tr>
<td>Week 6</td>
<td>06/20/16</td>
<td>OOPS</td>
<td>Quiz 6</td>
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<tr>
<td>Week 7</td>
<td>06/27/16</td>
<td></td>
<td>Quiz 7</td>
<td>Programming Project 3</td>
<td></td>
</tr>
<tr>
<td>Week 8</td>
<td>07/04/16</td>
<td></td>
<td>Quiz 8</td>
<td></td>
<td></td>
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<tr>
<td>Week 9</td>
<td>07/11/16</td>
<td></td>
<td>Quiz 9</td>
<td>Programming Project 4</td>
<td></td>
</tr>
<tr>
<td>Week 10</td>
<td>07/18/16</td>
<td>Review &amp; Finals Week</td>
<td>Quiz 10</td>
<td></td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**Grading Criteria:**

Following is the distribution of points for calculating the final grade.

<table>
<thead>
<tr>
<th>Graded Item</th>
<th>Weightage in Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Exams</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exams</td>
<td>25%</td>
</tr>
<tr>
<td>Programming Projects</td>
<td>25%</td>
</tr>
</tbody>
</table>

**Grading scale:**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
<th>GPA Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 100</td>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>80 - 89</td>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>70 - 79</td>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>60 - 69</td>
<td>D</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Quizzes

There will be ten (10) graded quizzes conducted on Canvas. Each of the quizzes will be made available at the beginning of the week and will be due at the end of the week. The quizzes will be timed and will consist of approximately 5-10 questions on the material covered during the week. These are open-book and open-notes quizzes intended to test the knowledge gained during the week.

Exams

There will be two (2) open-book, proctored online exams/tests during the course of the semester. These will cover the basic concepts covered during the time period mentioned in the schedule. There will be one comprehensive, on-campus, proctored Final exam. It will be open-book and include all materials covered in the semester.

Programming Projects

There will be four (4) programming projects during the course of the semester – once every two weeks. These programming projects allow the students to practically apply the programming concepts learned during the week. Typically, each project consists of two to three programming exercises and an optional, extra credit exercise.

USF Policies

While advisors, directors, department chairs and administration are available to assist students in meeting academic regulations, policies and procedures, it is ultimately the student’s responsibility to be acquainted with all academic regulations, policies and procedures, and to meet all requirements.

You are therefore referred to the following resources which detail the various USF Policies about which you should be knowledgeable before to enroll in any course:

- USF Undergraduate Catalog for the current academic year
  - [http://www.ugs.usf.edu/catalogs.htm](http://www.ugs.usf.edu/catalogs.htm)
  - Academic Policies and Procedures sections
    - [http://ugs.usf.edu/pdf/cat1516/08ACADEMICPOL.pdf](http://ugs.usf.edu/pdf/cat1516/08ACADEMICPOL.pdf)

- USF Undergraduate Studies website
  - [http://www.usf.edu/undergrad/](http://www.usf.edu/undergrad/)
  - List of regulations for undergraduate policies at
    - [http://www.usf.edu/undergrad/faculty/policies.aspx](http://www.usf.edu/undergrad/faculty/policies.aspx)

- USF Office of Student Rights & Responsibilities
Students in need of academic accommodations for a disability may consult with Students with Disabilities Services to arrange appropriate accommodations. Students are required to give reasonable notice prior to requesting an accommodation.

Student Code of Conduct

The University of South Florida values a community based on the principles of integrity, civility, and respect. As such, the USFP community expects students to behave in a manner that supports these principles. The Student Code of Conduct is a document which describes behavior that is counteractive to these principles and how the university will hold students accountable to those inappropriate behaviors.

University Emergency Policy

In the event of an emergency, it may be necessary for USF to suspend normal operations. During this time, USF may opt to continue delivery of instruction through methods that include but are not limited to: Blackboard, Elluminate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor Blackboard site for each class for course specific communication, and the main USF, College, and department websites, emails, and MoBull messages for important general information.

Online Proctoring

All students must review the syllabus and the requirements including the online terms and video testing requirements to determine if they wish to remain in the course. Enrollment in the course is an agreement to abide by and accept all terms. Any student may elect to drop or withdraw from this course before the end of the drop/add period.

Online exams and quizzes within this course may require online proctoring. Therefore, students will be required to have a webcam (USB or internal) with a microphone when taking an exam or quiz. Students understand that this remote recording device is purchased and controlled by the student and that recordings from any private residence must be done with the permission of any person residing in the residence. To avoid any concerns in this regard, students should select private spaces for the testing. The University library and other academic sites at the University offer secure private settings for recordings and students with concerns may discuss location of an appropriate space for the recordings with their instructor or advisor. Students must ensure
that any recordings do not invade any third party privacy rights and accept all responsibility and liability for violations of any third party privacy concerns. Setup information will be provided prior to taking the proctored exam. For additional information about online proctoring you can visit the online proctoring student FAQ.  
http://www.usf.edu/innovative-education/resources/student-services/online-proctoring.aspx

On-campus Exams

This online asynchronous course may feature some examination that require students to take an exam on campus.

- Please make sure that you remain enrolled in this course only if you will be physically able to take the designated exams on campus at the set day and time.

- Similarly, you will be required to bring your laptop to take the exam on campus. You need to ensure that your hardware and software will allow you to access the USF wireless network on campus if the exam requires you to do so.

- You also need to be ready to present a valid identification to the campus proctors to assess your identity.

- The exact date and location of the final exam will be communicated to you during the semester by your instructor

Additional Course-specific Technology Requirements

First Day Attendance

Due to this course being delivered in an online asynchronous way, first day attendance will be taken using a First Week Quiz. The latter will be available on the Canvas site for this offering until the Friday of the first week at 11:55am. By then, you will have to have not only taken it to completion, but also achieved 100% of the available points for this quiz. Failure to do so will result in you being marked “absent” on the first day attendance Canvas tool.

Important remarks:

- The quiz only features questions which are meant to allow you to certify that you complied with all requirements for the first week. Therefore, achieving 100% score is easy if you start working early in the week.

- You are able to take this quiz multiple times, unlike the other graded quizzes we will be using this semester. So you might take it, learn from your mistakes; take it again until you score the required 100% on it. Make sure you do this before the deadline

- You may verify whether you got this quiz right by looking at its gradebook entry and make sure you got all the available points
- If you decide to drop from the offering, you still need to work with the registrar on ensuring you are properly dropped. Simply not taking the quiz or scoring less than 100% of the available points does not wave other required procedures for you to drop.

**Ground Rules**

The following are not suggestions but requirements which you need to meet by the time you certify meeting them in our first week quiz. - Failure to meeting the requirements, or certifying that you meet them in the first week quiz, will result in you being marked as “absent” for first day attendance purposes

- If at any point during the semester, the instructor establishes that you failed to meet these requirements and did not disclose it or drop the course, you will be asked to drop the course without further support.

- You are responsible to ensure you meet all these requirements technical support below for available resources

**Technical Support**

If you encounter technology-related problems, immediately contact help@usf.edu for support and copy your instructor to the original email request.

**Laptop Requirements**

You must own a laptop to work in this course:

- It must allow you to access the USF Tampa Campus wireless network
- It must run Windows 8 or 8.1 and the complete Microsoft suite of office software.
- It must allow you to run efficiently the course software that you will be required to install and test during the first week; refer to instructor announcements and other material made available to you during the first week.
- You must be able to bring this laptop to use during proctored, in-person exams, along with its power supply and necessary electrical cords.
- In order to be able to take online proctored examinations, you will also need a webcam and microphone
- In order to be able to engage in online live sessions, you will also be required to use a microphone and headset
Academic Dishonesty

You are expected to work independently on all graded activities. Every graded work is required to be personal work only. Using material authored by others (e.g. found on the web, previous students, knowledgeable friends...) or seeking other peoples’ advices besides the instructor is considered cheating.

- Any question about graded assignments can be only asked to your instructor.

- Any form of cheating or plagiarism will be sanctioned by a 'FF' grade for all party involved.

- Being unable to explain any aspect of the material you submitted to be graded as your own work will be considered the result of cheating and will be sanctioned the same way.

- The instructor reserves every right to use any possible mean to assert if a given student cheated or not. This may include, but is not limited to, (automatic) comparisons to other sources, questioning student(s), etc.

Other

- Staying registered beyond the first week implies acceptance of this syllabus' terms.

- Anything not explicitly authorized in writing by the instructor, i.e. syllabus / announcements / emails / instructions, is considered disruptive or unethical behavior from students. If in doubt, you are expected to email your instructor to verify the appropriateness of a given behavior prior to engage in it.

- If a given communication from your instructor contradicts another, it is your responsibility to email your instructor to verify which policy is appropriate.

- Please make sure that you turn off your cellular phone during scheduled class meetings (online or face-to-face) and do not use your computer for non-course related purposes when engaged in live online sessions.