University of Pittsburgh – Syllabus – Fall, 2015 Semester (2161)

Course Information: **CS0007 - 28548(D) Introduction to Computer Programming**

Credits/Grading: 3 - Letter Grade

Prerequisites: None

Department: Computer Science

Class Time: Tuesdays & Thursdays – 1:00 PM - 2:15 PM ET

Dates: August 31, 2015 through December 19, 2015 (incl finals week)

Location: 5502 Sennott Square

Instructor: **Professor Karen Bigrigg**

Office: 6148 Sennott Square

Office Hours: Tuesdays & Thursdays: 12:00pm – 1:00pm ET

Email: [kjb72@pitt.edu](mailto:kjb72@pitt.edu) *(please only use my University email for this class)*

Recitation Option #1: **CS0007 – 28549(D1) Attendance-Required Programming Laboratory**

Class Time: Mondays –10:00 AM - 10:50 AM ET

Location: Sennott Square Room 5505

Recitation Option #2: **CS0007 – 28550(D2) Attendance-Required Programming Laboratory**

Class Time: Tuesdays – 11:00 AM - 11:50 AM ET

Location: Sennott Square Room 5505

Catalog Course Description:

This is a first course in computer science programming. It is recommended for those students intending to major in computer science who do not have the required background for CS 0401. It may also be of interest to students majoring in one of the social sciences or humanities. The focus of the course is on problem analysis and the development of algorithms and computer programs in a modern high-level language.

Requirements:

Textbook: Starting Out with Java – From Control Structures through Objects.

6th Edition. Tony Gaddis. ISBN-13: 978-0-13-395705-1

Software: myprogramminglab (code for software on inside book cover)

CourseID (a.k.a. “Section Access Code”): **UOFP-20148-QDAA-26**

Storage: A USB thumb drive is necessary for saving your work.

*Note: You can access all work uploaded via CourseWeb’s “My Grades”*

Course Evaluation:

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| Exams & Quizzes: 50%   * + Exam #1 = 10%   + Exam #2 = 10%   + Final Exam = 20%   + Weekly Quiz Average = 10% | Assignments (Projects & Homework): 50%   * + Project #1 = 10%   + Project #2 = 15%   + Project #3 = 15%   + Homework Average = 10% |

Tips for Success – Course Policies:

1. Participation and Class Attendance: Students are required to attend all lectures, which will include material that is not directly taken from the texts. If a student misses a lecture, s/he is still responsible for the material covered and is advised to copy the notes from a classmate. No course material (including assignment information or exam data) will be available electronically, with exception of those items the instructor wishes to publish online as a courtesy for the entire class roster. Students must be present to receive assignment and exam information – don’t solely depend on CourseWeb for all details. Additionally, students are required to attend all recitations (if applicable)
   1. Exams and Quizzes: Students are expected to be present for exams/quizzes. Alternative arrangements will ONLY be given **due to an emergency**, and only if I am **informed IN ADVANCE** in writing (email or paper notification). Failure to notify me prior to missing an exam and providing documentation will result in a zero for the exam/quiz.
      1. If you falsify your presence (or help another pupil assist in doing this) for a graded assignment/quiz/exam, you will both will receive a 0% on the assignment for the first offense. For subsequent instances, both parties will receive an F in the course and the Dean’s office will be alerted for further action.
      2. Exam and quiz questions are not freely available after completion. *However, you* ***always*** *have an opportunity to see how you performed on a quiz or examination - if you wish to review your results, please see me during office hours.*
   2. Recitation & Project Attendance: 40% of your final grade is based on a handful of programming projects. Each week, during recitation laboratory, you will work on partial credit activities for your currently assigned project. You will receive credit for each activity you complete (they build upon each other, and may even require you to rebuild previous code) – and you cannot skip partial credit activities! You must be in recitation to have your work assigned, proctored and guided. ***You will not receive higher than a C grade on any project if you miss more than 1 recitation per project (even if you complete it to the A level).*** You MUST be present in recitations to earn higher than a C grade on your projects. You may resubmit partial credit project activities as many times as you like after receiving grading feedback up to the final due date/time for the project as a whole*. If you falsify your presence in recitation, you will earn a 0% on the corresponding project covered in recitation.*
   3. Assignment Submission: Everything must be submitted in CourseWeb by the due date/time. There may be special occasions in which I ask for a printout version of your work in addition to the CourseWeb submission – which must be handed in at the beginning of the class due date.
      1. *If you experience upload problems with CourseWeb*, email me your work for grading **IMMEDIATELY, AND PRIOR TO, THE DUE DATE/TIME**, along with a screenshot of the upload error. When emailing me your work, I also need you to email technical information to validate the issue (type out what the error message is that you are receiving, computer information, network information, file information, date/time of attempted upload, and screenshot of error) **prior** to the due date/time via email to me or you will receive a 0% on the corresponding assignment. I need the error information so I can validate your excuse with CourseWeb administration and the Dean’s office – it must be validated by error logging. **If you contact me about CourseWeb submission issues after the due/date time, I cannot help you.**
   4. Computer & Cell Phone Usage: Social networking of any sort will not be tolerated during class time – you are not fully participating as required if you are doing this personal activity. This includes cell phone usage (text, voice, data), Facebook, personal email, gchat, tweeting, viewing personal websites/videos/graphics, gaming or web chatting will not be tolerated. It is disruptive and rude to your classmates and instructor. Participation is considered as a part of your grade in this class**; if you social network during class, you will be asked to leave and receive an F for participation for that class or recitation session (and all related work for that class or recitation, including quizzes, lab work, exams).**
2. **Academic Integrity: *Each student is expected to do his/her own work.*** Students may NOT use outside resource material to complete work – for instance, a student may NOT copy work from the internet, even if you “tweak it” to be slightly different. Moreover, a student may not collaborate with another student unless given permission by the instructor. For a first offense, a student caught collaborating or cheating in any way will receive a zero for the assignment in question. In the event of a second offense, the student will receive an F for the course and may be subject to stronger action (such as escalation to administration, which may affect your ability to graduate).
3. **Late Policy:** Unless otherwise stated, no assignments will be accepted late. On the rare occasion that an assignment is announced that it can be submitted late, the assignment will be accepted up to one class period late, with a penalty of 10% of the total worth of the assignment. **Do \*not\* ask me to make special exceptions for you and you alone – that is NOT fair to the rest of the class.** No assignment will be accepted more than one class period after its due date if a class-wide extension is granted. NO assignments may ever be delivered in the instructor's mailbox or by email.
   1. Please do not ask to have a CourseWeb assignment re-opened online for late submission. Budget for upload time to CourseWeb. All assignments are due by the beginning of the class which it is due (unless otherwise noted).
4. **Grade Expectations:** Given that effective grading is time-consuming, students should not expect to receive graded material less than a week and a half after it has been submitted. All assignments must be kept by the student until a final grade has been recorded. Moreover, you **earn** the grade you receive – I do not “give it” to you.
   1. If you request a re-grade of an assignment, please note that your request must be received in writing within one week of you receiving your grade. In your written request, you must state why you are asking for the regrade (supported with documentation/textbook page numbers/something for me to reference), and the entire grade for the assignment will be regraded per all rubric items (so your grade may actually go down).
5. **Communication:** The professor has office hours, during which she will be available to you via email and in-person conference (in her office). If you cannot attend office hours, please email the professor or talk to her after class for an appointment. Note that the professor checks her email regularly, but do not count on an immediate response – **an email response outside of office hours or scheduled appointments is a courtesy**. Moreover, peer assistance is welcomed via CourseWeb discussion threads – feel free to participate.
6. **CS Department Free Tutoring Help**: <http://cs.pitt.edu/undergrad/crc/>

Course Schedule / Outline (Subject to Change):

**\*\*RECITATION LABORATORY NOTE #1**: Each partial credit project activity corresponds to a grade level, and you cannot skip or unsuccessfully complete activities (grade levels) before moving onto the next partial credit activity. Work at your own pace on the partial credit project activities (in recitation & on your own). Be sure to upload all of your completed partial credit activities. Some advanced activities will require you to rework your old code!

**\*\*RECITATION LABORATORY NOTE #2**: You can only miss one recitation laboratory per project, or the highest grade you can achieve on the project is a C (even if you complete the entire project).

| **Week #** | **Notes** | **Tuesday –**  **What’s Assigned this Week?**   * **Weekly Readings Assigned** * **Checkpoint Quiz(zes) Assigned** * **Potential Homework Assigned** | **Tuesday –**  **What’s Due by Class Start Time this Week?**   * **Last Week’s Reading Due** * **Last Week’s Checkpoint Quiz(zes) Due** * **Potential Homework Due** | **Recitation & Project Workshop Information**  **\*\*See NOTES #1 & #2\*\*** | |
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| **Project** | **Project Activity Assigned** |
| Week 1 (Sept 1 & 3) |  | \*Class Setup:  \*\*Purchase book  \*\*Purchase myprogramminglab  \*\*Review our class in Courseweb.  \*\*Complete Syllabus Agreement  \*\*Register for our class in myprogramminglab.com software  \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 1 (Introduction to Computers and Java) [entire chapter] | \*N/A | None | N/A – No recitation this week |
| Week 2 (Sept 8 & 10) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 2 (Java Fundamentals) [entire chapter] | \*Complete Class Setup (Upload Your Syllabus Agreement, Register for MyProgrammingLab.com, Setup Programming Software on Personal Laptops [Optional])  \*Reading Due & Corresponding Checkpoint Quiz (Ch 1 – entire chapter) | Project #1 | *General Introduction Discussion:*   * Learn how to create a java program, and learn how to run your programming file from the command prompt & Eclipse. * TAs to Help Setup Programming Software on Personal Laptops (Optional)   *Project Workshop:*   * Activity 1 (command line output) * Activity 2 (variables) |
| Week 3 (Sept 15 & 17) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 3 (Decision Structures) [entire chapter] | \*Reading & Corresponding Checkpoint Quiz (Ch 2 – entire chapter) | Project #1 | *Project Workshop:*   * Activity 3 (functions & strings) |
| Week 4 (Sept 22 & 24) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 4 (Loops and Files) [Ch 4.1 - Ch 4.6 Only] | \*Reading & Corresponding Checkpoint Quiz (Ch 3 – entire chapter) | Project #1 | *Project Workshop:*   * Activity 4 (command line input) * Activity 5 (calculations) |
| Week 5 (Sept 29 & Oct 1) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 4 (Loops and Files) [Ch 4.7 - Ch 4.12 Only] | \*Reading & Corresponding Checkpoint Quiz (Ch 4 -Ch 4.1 - Ch 4.6 Only) | Project #1 | *Project Workshop:*   * Wrap Up Project #1 |
| Week 6 (Oct 6 & 8) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 5 (Methods) [start chapter] | \*Reading & Corresponding Checkpoint Quiz (Ch 4 -Ch 4.7 - Ch 4.12 Only) | N/A | *Review for Exam 1*   * (Chapters 1, 2, 3, 4 & 5) During Recitation |
| Week 7 (Oct 13 & 15) | **Thurs., Oct 15 - Exam 1 - Chapters 1, 2, 3, 4, 5** | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 6 (A First Look at Classes) [entire chapter] | \*Reading & Corresponding Checkpoint Quiz (Ch 5 – entire chapter)  \*Homework #1 (see www.myprogramminglab.com) | Project #2 | *Project Workshop:*   * Activity 1 (customized command line output) * Activity 2 (flowchart) |
| Week 8 (Oct 22 Only)  *Oct 20 = University Holiday, No Class* |  | \*Review: Reading Assignment & Corresponding Checkpoint Quiz: Chapter 6 (A First Look at Classes) [entire chapter] | \*Reading & Corresponding Checkpoint Quiz NONE | Project #2 | *Project Workshop:*   * Activity 3 (randomization) |
| Week 9 (Oct 27 & 29) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 8 (A Second Look at Classes and Objects) [Ch 8.1 – 8.6 Only] | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 6 (A First Look at Classes) [entire chapter] | Project #2 | *Project Workshop:*   * Activity 4 (decision logic) * Activity 5 (looping) |
| Week 10 (Nov 3 & 5) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 8 (A Second Look at Classes and Objects) [Ch 8.7 – 8.12 Only] | \*Reading & Corresponding Checkpoint Quiz (Ch 8 -Ch 8.1 - Ch 8.6 Only) | Project #2 | *Project Workshop:*   * Wrap Up Project #2 |
| Week 11 (Nov 10 & 12) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 7 (Arrays and the ArrayList Class) [Ch 7.1 – 7.6 Only] | \*Reading & Corresponding Checkpoint Quiz (Ch 8 -Ch 8.7 - Ch 8.12 Only) | N/A | *Review for Exam 2*   * *(Chapters 6 & 8) During Recitation* |
| Week 12 (Nov 17 & 19) | **Thurs., Nov 19 - Exam 2 - Chapters 6, 8** | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 7 (Arrays and the ArrayList Class) [Ch 7.7 – 7.14 Only] | \*Reading & Corresponding Checkpoint Quiz (Ch 7.1 - Ch 7.6 Only)  \*Homework #2 (see www.myprogramminglab.com) | Project #3 | *Project Workshop:*   * Activity 1 (divide-and-conquer problem solving & manipulating collections of data) * Activity 2 (looping and file I/O) |
| Week 13  *No Class this Week due to Thanksgiving – Nov 24 & 26* |  | *\*Special CourseWeb Take-Home Assignment in Replacement of Class Tuesday, Nov 24 Prior to Thanksgiving Break – Due Nov 24 @ 5pm ET* | \*Reading & Corresponding Checkpoint Quiz NONE | Project #3 | N/A – No recitation this week due to Thanksgiving Break |
| Week 14 (Dec 1 & 3) |  | \*Reading Assignment & Corresponding Checkpoint Quiz: Chapter 12 (A First Look at GUI Applications) [entire chapter] | \*Reading & Corresponding Checkpoint Quiz (Ch 7.7 - Ch 7.14 Only) | Project #3 | *Project Workshop:*   * Activity 3 (advanced data collection manipulation) * Activity 4 (object-based programming) |
| Week 15 (Dec 8 & 10) |  | \*Course Wrap-Up - Study for Cumulative Final Examination | \*Reading & Corresponding Checkpoint Quiz (Ch 12 – entire chapter)  \*Homework #3 (see www.myprogramminglab.com) | Project #3 | *Project Workshop:*   * Wrap Up Project #3 |
| Week 16 Final Exam Week | **Final Exam - Cumulative - Chapters 1 - 8 & 12** | | | | |

Official University Statements

**Academic Integrity Policy:**

Cheating/plagiarism will not be tolerated. Students suspected of violating the University of Pittsburgh Policy on Academic Integrity, noted below from the February 1974, Senate Committee on Tenure and Academic Freedom reported to the Senate Council, will be required to participate in the outlined procedural process as initiated by the instructor. A minimum sanction of a zero score for the quiz or exam will be imposed.

The integrity of the academic process requires fair and impartial evaluation on the part of faculty, and honest academic conduct on the part of students. To this end, students are expected to conduct themselves at a high level of responsibility in the fulfillment of the course of their study. It is the corresponding responsibility of faculty to make clear to students those standards by which students will be evaluated, and the resources permissible for use by students during the course of their study and evaluation. The educational process is perceived as a joint faculty-student enterprise which will perforce involve professional judgment by faculty and may involve –without penalty—reasoned exception by students to the data or views offered by faculty.

**Disability Resources Statement:**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability resources and Services, 216 William Pitt Union 412-624-7890/412-383-7355(TTY), as early as possible in the term. Disability Resources and Services will verify your disability and determine reasonable accommodations for the course.

**Email Communication Policy:**

Each student is issued a University e-mail address (username@pitt.edu) upon admittance. This e-mail address may be used by the University for official communication with students. Students are expected to read e-mail sent to this account on a regular basis. Failure to read and react to University communications in a timely manner does not absolve the student from knowing and complying with the content of the communications. The University provides an e-mail forwarding service that allows students to read their e-mail via other service provides (e.g., Hotmail, AOL, Yahoo). Students that choose to forward their e-mail from the pitt.edu address to another address do so at their own risk. If e-mail is lost as a result of forwarding, it does not absolve the student from responding to official communications sent to their University e-mail address. To forward e-mail sent to your University account, go to http://accounts.pitt.edu, log into your account, click on Edit Forwarding Address, and follow instructions on the page. Be sure to log out of your account when you have finished.

**Statement on Classroom Recording:**

To ensure the free and open discussion of ideas, students may not record classroom lectures, discussion and/or activities without the advance written permission of the instructor, and any such recording properly approved in advance can be used solely for the student’s own private use.