Instructors

Justin Selgrad

Office/hour: FANR 3125; Monday, Wednesday 10 - 12:50, Friday 12:00 – 12:50 (subject to change)

Email: jselgrad@siu.edu

Class

MWF 1:00 - 1:50 P.M. Faner 1034 (in the computer lab)

Teaching Assistants

Reza Khoie, Office Hours: TBD

Nagalakshmi Satyanarayanan, Office Hours: TBD

Required Material

Text: Data Structures and Abstractions with Java, 3rd ed., by Frank Carrano.

Grading

- Mid-Term 20%
- Final 20%
- Quiz 10%
- Assignments 40%
- Labs 10%

(Subject to change)
Overview of course topics

1. Review of Java basics and Java development frameworks.
2. Additional Java: interfaces, inheritance, polymorphism, generics, etc.
3. Software design and object-oriented programming concepts.
4. Java vs. C/C++ and OOP vs. procedural programming.
5. Basic data structures:
   a. Arrays
   b. Linked lists
   c. Stacks & queues
   d. Trees
   e. Hash Tables
   f. Maps
7. Recursion and recursive functions.
8. Introduction to Sorting algorithms.

Emergency Procedures:

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

Course Tips:

- Attendance at the lectures is considered a critical part of this course. Not only will absences likely impact the quality of your work, frequent absences may result in points being deducted from your cumulative score (which may lower your final grade).
- The separate lab sessions on Tuesdays will be an extended chance for students to ask questions about and get help with the lab assignments. Students are strongly urged to
attend these sessions as minimal time will be devoted to lab assignment questions in
the lecture sessions.

• While most of the course topics will be covered in class, and there is a great deal of
online material about Java programming, you are still expected to read the assigned
sections in the required textbook. Because of time limitations, not everything you
should learn from this class can be covered in the lectures. You may be tested on
assigned material in the text even if it has not been discussed in class.

• Much of the course grade will be based on the exams, and students will be required to
write code on the exams. Don’t expect to get a good grade for the course if you do well
on the labs and homework, but then do poorly on the exams.

• Programs that do not compile or do not run at least partially, will generally not be
graded (i.e., we will not grade by examining source code). Such submissions will be
assigned a score of 0. No appeals. Again, start your assignments early enough so you are
not faced with a 99% complete program that nonetheless receives a zero.

• All programming for the course will be done with the Java programming language.
Students need to have access to a Java Development Kit (JDK), not just the Java Runtime
Environment (JRE) that is required to run Java programs/applets. The JDK is freely
available for most platforms from Oracle (search for “java jdk download” to find a link).
The current version of Java is 7 (also known as Java SE 7).

• Students can use any of several methods for developing Java code for this class. Since
assignments will generally be fairly small, the simplest approach is to simply create .java
source files with your favorite text editor, and then compile and run them from the
command line. You can also choose to use an Integrated Development Environment
(IDE), such as NetBeans or Eclipse. However, CS majors need to know how to create,
compile, and execute programs without an IDE, so it is a good idea for CS majors to try
some of their implementation without an IDE.

• You will be instructed as to how to submit your programs electronically for grading.

• While we will be teaching many elements of Java in this course, the course is primarily
about data structures rather than Java. There are a number of more advanced elements
of Java that will not be covered at all in the course due to time limitations.
Instructor Policies

Teaching Philosophy

I keep my classes laid back and encourage the interaction of the entire group. One of the most powerful aspects of the classroom environment is looking at a topic from different points of view. If you have a point of view that is different from mine I openly encourage you to raise it during the discussion. The examination of a topic from all points of view will help everyone reach a greater understanding of the topic.

It is my philosophy that every person is responsible for their own education. What you get out of a class is directly proportional to what you put into it. I will do everything in my power to help you with your education but the ultimate responsibility is yours.

You are responsible for information covered in class as well as out of the book. The power of the classroom experience is to pull from multiple sources to enhance your understanding of the subject; this includes me, the book, other students and any other resource that is available.

Participation

Participation is very important. Keep up to date with chat, announcements and course materials. If there are team projects, participation in that team will be part of the grade. If teammates inform me that a student never shows up for team work sessions, or does not participate in the project, that will be a factor. In the end, poor performance in the class is usually a direct result of poor participation and/or not putting in a good effort.

Plagiarism

Plagiarism will be met with harsh consequences. I will report any incident to student services and punishment will be meted out according to school policy.

Assignments and Late Work

All assignments are due by 11:59 pm on the stated due date. Assignments received after this time are considered late.

If you are going to have trouble turning an assignment, please notify me as soon as you can, preferably by Thursday of the due week.

An excused late assignment will be granted an explicit extension.

The following rubric demonstrates my late policy for unexcused late assignments:

- Assignment turned in during due week - Eligible for 100% of points
- Assignment turned in early the week after due week - Eligible for 85% of points
- Assignment turned in later in the following week - Eligible for 75% of points
• Assignment turned in early into two weeks late - Eligible for 65% of points
• Assignment turned in late into two weeks late - Eligible for 50% of points
• This policy does not extend past the final day of the session.

Assignments that are not submitted at the due date will receive a 0 grade which will stand until other arrangements are made. If you are submitting a late assignment, you are required to communicate that to me or your assignment may not be graded.

After multiple weeks I may choose to not accept your late work.

My policy is fairly forgiving ... If you are found abusing this policy; I may choose not to accept your late work

Communications

The easiest way to get in contact with is through email – jselgrad@siu.edu -- you may also use the Email item in the shell. When sending me emails please include the course code (CSC202) in subject line – this helps differentiate class emails from administrative. Also, if you have a question or need help please put the word question or help in the subject line.

You may also reach me on my Google Voice number (314) 399-8537. You may also text that number. If you call that number and don’t reach me – please leave a message or text or I may never see that you called.
IMPORTANT DATES *
Semester Class Begins ................................................. 01/15/2015
Last day to add a class (without instructor permission): ........... 01/20/2015
Last day to withdraw completely and receive a 100% refund: ....... 02/01/2015
Last day to drop a course using SalukiNet: .......................... 04/05/2015
Last day to file diploma application (for name to appear in Commencement program): ................................... 03/13/2015
Final examinations: ......................................................... 05/11–05/15/2015
Note: For outreach, internet, and short course drop/add dates, visit Registrar’s Academic webpage: http://registrar.siu.edu/

SPRING SEMESTER HOLIDAYS
Martin Luther King, Jr.’s Birthday 01/19/2015
Spring Vacation 03/07—03/13/2015

WITHDRAWAL POLICY ~ Undergraduate only
Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit http://registrar.siu.edu/pdf/ugradcatalog1314.pdf

INCOMPLETE POLICY ~ Undergraduate only
An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. For more information please visit: http://registrar.siu.edu/grades/incomplete.html

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A, B, C, D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at http://registrar.siu.edu/pdf/ugradcatalog1314.pdf

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit http://gradschool.siu.edu/about-us/grad-catalog/index.html

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM CODE

MORRIS LIBRARY HOURS
http://www.lib.siu.edu/about

SAFE AS AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: (618) 453-5714, or siukares@siu.edu, http://salukicares.siu.edu/index.html

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INCLUSIVE EXCELLENCE
SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well as an essential preparation for any career. For more information please visit: http://www.inclusiveexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:
Tutoring: http://tutoring.siu.edu/
Math Labs: http://tutoring.siu.edu/math_tutoring/index.html

WRITING CENTER
The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our office's main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

Additional Resources Available:
SALUKINET: https://salukinet.siu.edu/cp/home/displaylogin
ADVISEMENT: http://advisement.siu.edu/
SIU ONLINE: http://online.siu.edu/