ITK 168

IMPORTANT NEORMATION

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Course Web Site: http:/

Catalog Description

Introduction to the development of algorithms for computer systems processing. Emphasis on structured problem solving in the design of problem solution.

Course Description

This course is designed to introduce you to the basic problem solving and program design skill sthat are used to create computer programs. Topics include problem solving strategies, program design strategies and tools, program testing, object-oriented programming, common algorithms used in computer programs, user interfaces, and the syntax of a high level programming language.

Email: tutores@163.com

Course Objectives

Upon successful completion of this course you will

- 1. Be able to describe classical problem solving strategies and use them in solving problems that can be implemented on a computer.
- 2. Be able to use accepted program design strategies and tools to design and implement a solution for a problem on a computer.
- 3. Understand the various contexts/in which computer programs are written.
- 4. Be able to develop appropriate testing procedures for a simple program.
- 5. Be able to write computer programs in a high level programming language.

Textbook



Julie Anderson and Herve J. Franceschi. *Java Illuminated: An Active Learning Approach*. 5th ed. 2018. ISBN-10: 1284140997 (ISBN-13: 978-1284140996).

Technology Usage

We will be using Eclipse for all coding assignments in this class. When you submit, please only submit the java files, not the entire project or the class files. Include all files necessary to run the program, including files that were provided, even if you did not change them. You can access Eclipse through the Java Pool, and this is recommended as it gives you the flexibility to access your programs from any computer.



Commitment and Time Management

Programming courses are time intensive. In must be prepared to spend the usual 2 hours of study for each hour in lecture **plus** additional time for designing, coding, debugging and executing your programming is **normal**

Managing your to succeed in this previously taken a cours your time. Spending it



time commitment. You are in control of how you spend all to your success.

Course Requirements

Exams: This course has two written exams, a lab final, and a written final. The written exams are given to all IT 168 sections jointly in the evening from 8-10 pm. The dates for the first two exams can be found at: https://itk.ils.wide.i168/htmftexam.21081169.

Introduction order

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The final exam will be announced once it is firmly scheduled. The location for the exams will be announced in class, via Canvas, and on the IT 168 course website. They will not be held in our regular classroom. The lab final will be given in your lab section during the final week of classes.

ASSIGNMENT Project Exam Help
If you are unable to attend an exam due to illness, bereavement, or another valid reason (such as a class conflict), you must notify me **prior to** the exam to make arrangements for making up the exam. You should make arrangements now to attend the exams. That means that if you work nights, you need to make arrangement to have those evenings of now.

<u>Labs:</u> You are enrolled in a laboratory section that meets weekly. The purpose of the labs is to give you an opportunity to precipe what you are required to attend the lab meetings. In some weeks, you will be required to work with other students on the lab activities. In other weeks, working together may be encouraged but not required.

Twenty percent of the Corse gride will be from the Different the first lab, there will be assignments to complete before the lab as well as during the lab. Pre-lab activities are due at the **beginning** of the lab period in which the lab is scheduled. Other lab activities are due at the **end of the lab session**. However, if you stay on task during lab and are unable to finish, an extension will be granted up to the next lab session. Plan to stay for the **entire** two hour lab period every week.

In addition to the regular lab activities, there will be several lab quizzes. These are intended to help you prepare for the lab final and to ensure that you have important needed skills. Lab quizzes will be given at the beginning of lab period, and you will be able to work on your regular lab assignment as soon as your lab instructor has confirmed that you have submitted the lab quiz.

If you do complete your lab early, make sure you submit it and check with your lab instructor before leaving the lab room. Part of your lab grade is based on attendance, and points will be deducted for leaving early without completing and submitting the lab first. Note, you will not have access to the lab until just prior to lab meeting time, so you will not be allowed to work ahead.

Your lowest lab grade will automatically be dropped at the end of the course. This provides you with some flexibility. Missed labs cannot be made up. Any late submission of labs that have not been approved by the lab instructor will receive a penalty of 2% per day.

As noted above, the lab final exam worth 10% of your grade will be given in the lab session during the final week of classes.

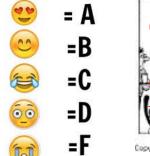
Programming Assignments: You will have six programming assignments in this course. Solutions must follow the design, today and documentation to the dards programming assignment, you will submit the source code along with any required documentation in Canvas. Make sure that you get help from me and the paid debuggers as needed to get your programs working. Programs continue errors will incur a submit the source code along with any required documentation in Canvas. Those producing runtime errors will incur a submit the source code along with any required documentation in Canvas.

Be sure to make programs on time. Programs may be submitted up to one week late for a submitted will not be accepted after the program of time. Programs may be submitted Except in cases of bereavement or serious illness, they will not be accepted after the program of time. Programs may be submitted up to one week late for a submitted except in cases of bereavement or serious illness, they will work out an application of the program of time. Programs may be submitted up to one week late for a submitted except in cases of bereavement or serious illness, they will work out an application of the program of time. Programs may be submitted up to one week late for a submitted except in cases of bereavement or serious illness, they will work out an application of the program of time. Programs may be submitted up to one week late for a submitted except in cases of bereavement or serious illness, they will work out an application of the program of

Note that the promote that are individual work (unlike labs and in-class group work). You may not where assignments. You are strongly encouraged to ask me about any questions you have about the assignment.

Quizzes and participation: Ten percent of your grade is based on quizzes and participation. You are expected to attend class and be prepared to actively participate. Class time will be used to review lecture material as needed, clarify readings from the text, answer your questions, and work practice problems. You will be given expelling up the conduction of each chaptex leasting as well as tome in class quizzes which are intended more to assess your understanding of current concepts and provide me immediate feedback about your understanding. These in-class quizzes should be used as a study tool to prepare for the exams. Absolutely no makeups will be provided for missed quizzes.

Evaluation





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Your grade will be determined based on the following distribution:

2-Midterm exams		20%
Lab Final Exam		10%
Written Final Exam		15%
Lab activities		20%
Programs		25%
Quizzes and class participation		10%
• •	Total	100%

Your grade is computed as a *weighted average* based on the percentages above. It is *not* your total points divided by the total number of points possible in the course. You may end up with far more points for quizzes than for programs, but your program average will count two and a half times as much as your quiz and participation average.

C 70- 79 (see note below)

Important: In order to average to receive a C, exam average is computed the same as the other 3 e

ted above, you must also have at least a 65% exam e for a B, and an 85% exam average for an A. This exam scores and dividing by 4. The final exam counts

Canvas

All of the content for this course will be contained in Canvas. This is where you will go to find information about all assignments in Juditg late. Still information about the course can be found in this lecture section.

Any student needing to arrange a resolution Services and Accommodation beautiful for medical/mental health condition should contact Student Access and Accommodation Services at 350 Fell Hall, (309) 438-5853, or visit the website at StudentAccess.IllinoisState.edu.

Plagiarism and other forms of academic dishonesty 163.com

Academic integrity is very important to me and to this university. You are expected to be aware of the student code, including the section on academic dishonesty (cheating and plagiarism). Knowingly turning in work that you did not do is plagiarism, the most common form of academic dishonesty. It is unacceptable in this course and a foolish way to try to get through the course. This course is teaching fundamental and concepts that are required in later courses. The programs, as well as the labs and quizzes, also provide important practice/for the exams. Therefore, it is crucial that you complete your own work for programs. You are encouraged to work together in class and lab and in study session to learn this material, but you must not work together on the individual programming assignments. Discuss those assignments only with me and the paid debuggers. Do not show someone your code, even if the person claims not to intend to cheat (as noted in the student code, the person providing the work is also cheating). Be careful to avoid sitting in the lab, or anywhere else, and talking about the program. Note that if you found the code on the web (or anywhere else), you did not do the work.

Any case of academic dishonesty will result in a minimum penalty of a zero on the assignment. This applies to both the person who did the work and made it available and the person who copied. The maximum penalty will be an F in the course and pursuit of further disciplinary action, typically applied for multiple incidents of academic dishonesty or cheating on an exam. Note that the standard penalty for any kind of cheating on a program is a zero on the program in question and a loss of 10% on the final course average. All cases of academic dishonesty will be handled according to university policy as outlined at https://deanofstudents.illinoisstate.edu/conflict/conduct/code/academic.php and may result in disciplinary penalties as well as academic penalties.

Bottom line: Do your own work!

Course Resources

There are a number of sources of information for this course:

- There is a course versile where you will find the acting of a variety of supportive resources for the course and a link to a broader course outline.
- I will be using Canvas, accessible from my.illinoisstate.edu or from Canvas.illinoisstate.edu. This site requires your ULID and associated password. There will be information there the expected of you in each week, including links to course materials. The expected of your programming assignments, as well take your chapter to see your grades there.
- Your textbook w to the result of readings and possibly also for individual programming as:

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- I am providing a set of videos for you to watch. A link to these videos can be found in Canvas, under the Learning Materials link.
- I am one of your why mortal durse restrict. Dance Silable during my office hours. If you cannot come to my office hours, I make appointments at other times
- The learning center is available to assist you with these classes. Please refer to the course website for hours of availability for tutoring article bugging. Please note that the Learning Center is not available to help you write programs. It is there to provide uttoring, so it is expected that you come to the Learning Center with your program mostly completed and have specific questions. They are there to tutor, not help write code.
- I answer email frequently. When taking operations (You programs via papil, please be as specific as possible about your question or bug. If you are asking for help with a bug, explain the problem and the error you're seeing and zip the program as if you were submitting and attach it to your email. The error you think is in one method may be actually caused by something else entirely, so it can speed in answer significantly if I have the whole program as well as your information.

Class Expectations https://tutorcs.com

- ISU continues to provide University-wide COVID-requirements based on the Center for Disease Control's updated guidelines and State of Illinois requirements. While these requirements may be modified throughout our semester, we (Students, Faculty and Staff) are expected to follow them. Please know I will implement these expectations throughout our semester, to keep us as healthy as possible. As you will learn, an educator has many responsibilities beyond teaching their subject matter. A teacher's first responsibility is to protect their students. I view this as my primary responsibility this semester. If a student decides to not follow University COVID guidelines in my class, the student will be referred to the Dean of Student's Office. Please, let's work together to have the in-person/on campus semester we have all been longing to have.
- Class time is valuable in this course. Although rare, some students are able to learn the course material from the textbook and videos alone. However, the vast majority of you need and will benefit greatly from the explanations and examples provided in class. Please help me to maximize the value of our class time in the following ways:
 - 1) Be prepared. Read and view assigned material before class.
 - 2) Attend class regularly. Attendance is included in the course grade. Being in class will make it easier to participate and learn from the explanations and examples I provide as well

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as the in-class activities designed to help you learn. There will be a 2% attendance penalty for each class missed regardless of reason. Note that you are responsible for everything I say in class whether you're there or not Make arrangent as with need a rance if you must miss class due to participation in a Sanctioned University Activity or to fulfill a religious obligation. If you have to miss class due to an extended illness (3 or more vement, the Dean of Students Office can help. It's located consecutive (in Room 387 ilding, and the email address is DeanOfStud do need to miss class, you are expected to get notes from with any questions you have regarding the material. The a classmate a d religious obligations, as well as any absences reported sanctioned un subject to the attendance penalty. However, I will not ence from class. reteach mater

- 3) Be on time. Last a health and the session. A 1% penalty for attendance will be assigned for anyone who arrives late.
- 4) Be respectful of class time. Pay attention and avoid providing interruptions such as cell phones ringing in the middle of class. Interfer a relaxed classroom environment, but it is important that all of you be able to focus on what we're doing in class without distractions.
- 5) Participate in the class. You will get much more out of our in-class activities and find learning this material easier if you participate in group activities, and participate in whole class discussion and protection from participation can also help other students in the class.

My advice

Programming requires a different kind of thinking and addifferent kind of learning. If you can do algebra, you can program, but you cannot learn to program by memorizing. You must seek to understand the building blocks, what they mean, how they fit together. This is an odd combination of learning a language and tong problem to thing. The good tows is the language is a lot simpler than things like French and Spanish, but if you just try to memorize chunks of Java that you don't understand, you'll do as poorly in the long run as if you tried to learn French by memorizing whole sentences without understanding what the different words mean and how they're put together. You may get by for a few weeks to the hatthe longer works. Of The weeks behind. Instead, work to understand the patterns and the building blocks. If you are struggling, make sure you visit the learning center.

Permission required to record:

Students must obtain written permission from the instructor if they wish either to record classroom lectures or discussions using audio or video devices. This restriction includes visual materials that accompany the lecture/discussion, such as lecture slides, whiteboard notes/equations, etc. Such recordings are to be used solely for the purposes of individual or group study with other students enrolled in the class in that semester. They may not be reproduced, shared in any way (including electronically or posting in any web environment) with those not in the class in that semester. Students with disabilities who need to record classroom lectures or discussions must contact Student Access and Accommodation Services to register, request and be approved for an accommodation. Students who violate this policy may be subject to both legal sanctions for violations of copyright law and disciplinary action under the University's Code of Student Conduct.

A Final Note: After laying down all the rules and regulations, I want to remind you that I want you to enjoy this course and succeed at it. To that end, I have office hours that are truly *yours*. Although there

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may be a few times when many are trying to see me at the same time, I will, with your patience and assistance, be able to meet with everyone. Lam available by appointment outside of scheduled office hours. In fact, you are we came it my office anything the door is promised with it is the patient of the pa

that's what I'm here for

Thinking of dropping t unnecessarily, and that s struggling with or come my office so we can hav course, you had might as possible.

WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

https://tutorcs.com

Course schedule

Week	Date	T程序代写代做 CS编	程辅导
1	8/21		Chapter 1, 2.1-2.2
2	8/28	A n to Classes and Objects	2.3-2.4, 3.1-3.7
3	9/4	L Tutor cs I I I I Monday U Ssees; Input	3.8-3.18
4	9/11	If and Let School and the	5.1-5.9
5	9/18	Switch Whole Chat: cstutorcs	5.11-5.12 6.1-6.7
6	9/25	For and do-while loops	6.8-6.12
7	10/2	Water Sais nament Project I Exam 1 on Wednesday night (covers material thro	Exam Help
8	10/9 10/16	Writing classes cont. tutores @ 163. More on classes; Aggregation	com ^{7,9-7,11, 7.14-7.16}
			0.1.0.4
10	10/23	In role to 10 14 19 38 94 76	8.1-8.4
11	10/30	Arrays cont.	8.5-8.7
12	11/6	Artistos Linetistach Electio Stin Exam 2 on Wednesday night (covers material thro	8.8-8.9 ugh 8.4)
13	11/13	Exceptions; File I/O	11.1-11.6
	11/18	Thanksgiving Break—no classes	
14	11/27	File I/O continued	11.7-11.8
15	12/5	Review	
		Final Exam TBA	

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