CSCI 160 — Introduction to Problem-solving & Programming

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logistics

- instructor(s)
 - Jeremy Iverson (jiverson002@csbsju.edu)
 - PENGL 213, (320) 363-5542
 - office hours: T 10:00 11:00 W 14:00 - 15:00
- textbook
 - · Java Early Objects, Lysecky and Lizarraga et al., zyBook
- website
 - https://csbsju.instructure.com/courses/13506
- labs
 - PENGL 218, TR 01A 09:30 10:25 02A 13:00 - 13:55

I prefer to be called Jeremy Encourage questions right away

Emphasize the importance of the Canvas site for finding information about the class

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course objectives

- write well-designed Java programs for small-scale problems
- identify appropriate object classes for solving a given problem
- write good documentation for programs

Will not be asked to write full-scale applications

- Emphasizes programming fundamentals, special attention to object-oriented software design (ptyon and visual basic are both examples)
- Problem-solving

course content

- introduction to Java
- using methods
- using objects
- decisions
- iterations
- arrays
- designing and implementing classes
- inheritance
- interfaces and polymorphism
- · file i/o
- exceptions
- recursion
- searching
- sorting
- collections
- advanced topics

Ask students to point out some of the topics which are covered in 130/150 Point out that each of these bullets corresponds to one of the "modules" on Canvas

technologies

- · Java language
- Dr. Java integrated development environment
- · Linux operating system
- · Github source code management platform
- · Canvas learning management system
- · Outlook calendar management application
- · maybe others...

- I will be sure to remind for the first couple labs, after that
- Your responsibility to go on N drive to course folder to see if there is a prelab
- I will try to remind, but it is student's responsibility
- · Amounts to two (roughly 30 min) assignments per week
- Labs are due Tuesday following the lab session that they are assigned

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labs

- attendance
- prelabs

- I will be sure to remind for the first couple labs, after that
- Your responsibility to go on N drive to course folder to see if there is a prelab
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- · Amounts to two (roughly 30 min) assignments per week
- $\boldsymbol{\cdot}\,$ Labs are due Tuesday following the lab session that they are assigned

assignments

- · do your own work
- · use each other as resources only

Should be student's own work, may work together but must individual solutions

Want to encourage using each other as resources, but do not want some students to rely on other students for answers

quizzes and exams

- three (3) lab quizzes (open book / note)
- two (2) in-class exams (closed book / note)
- one (1) in-class final exam (closed book / open note) [cumulative]

Make-up exams are possible under certain circumstances, but no make-up quizzes

office hours

- stop by anytime
- my calendar

Mention outlook calendar & my home page
For those unfamiliar with Outlook meetings, then they should schedule another way and we will go over this in meeting
Mention not generally availability in the afternoons

expectations

- prepare for class (do the reading!)
- participate in class
- be respectful

- Don't just read, by try your best to make sense of the material
- Emphasize that students are not just recipients of my knowledge they can shape the direction of the course
- · Encourage students to stop and think before replying.
- Don't be discouraged if comprehension is not apparent right away, but don't be complacent
- · Seek help (TAs and me)
- · Students can expect the same things from me.



notecards

• upcoming assignment will be to schedule a 10 minute meeting with me in my office to handle introductions

Java program

- · open Lecture1.java
- $\boldsymbol{\cdot}$ follow the instructions

ASCII Table

13 CH TABLE															
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4	4	4		36	24	44	\$	68	44	104	D	100	64	144	d
5	5	5		37	25	45	%	69	45	105	E	101	65	145	e
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21	15	25		53	35	65	5	85	55	125	U	117	75	165	u
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