

Comp Sci 142



What is this class about?

- Learning more complex programming concepts, especially object-oriented programming.
- Topics
 - Python to Java introduction
 - New Java concepts & OOP
- Is this the right class for me? Yes, if:
 - You took COMP 141 here
 - You have programming experience in a language like Python, Java, C, or C++, and feel comfortable implementing simple algorithms in that language.

Grading

- Programming projects – 35%
- Labs/Homework – 15%
- Midterm 1 – 15%
- Midterm 2 – 15%
- Final exam – 20%

Working independently

- Out-of-class assignments must be done *independently*, however, you may ask others for help.
- Rule 1: Do not look at anyone else's code for the same project or a similar project.
- Rule 2: Do not write code or pseudocode with anyone else.

Classroom guidelines

- Respect each other during class time.
 - Pay attention in class, no phones, turn off your screen when asked to do so.
 - Please don't be late.
 - Please raise your hand; don't call things out unless I ask you to.
- Masks?

Differences from 141

- 142 is more than just a continuation of 141
- Moves faster
- Material is more complicated
- Less “hand-hold-y:” you will need to do more reading on your own and look things up more (I will give you these resources).
- More fun (hopefully)!

How to succeed in COMP 142

- Start projects early
 - They will take longer than 141 projects.
 - Bonus points for turning them in early.
 - Night before may no longer work.
- Stay current with class material; don't fall behind.
- Ask questions in class.
- See tutors and me for help.



Be curious.

- Write a program where the computer picks a number from 1 to 100 and you have to guess what it is.
 - The computer will report whether each guess is too high, too low, or correct.
 - Report the number of guesses it takes to get it right.
- Write a program to simulate ***a single turn*** of the game "One is Zero:"
 - During a turn, you roll a six-sided die.
 - If you roll 2-6, you get that number of points and may roll again to get more points, or you may choose to end your turn.
 - As soon as you roll a 1, your turn ends, you lose any points you already received for that turn, and get zero points for the turn.
 - Print the total points you receive for that turn at the end.
 - If time, allow two players to alternate taking turns (points accumulate for each turn), and after 5 turns each, the game ends.