## Class website

## cs.rhodes.edu/142

## What is this class about?

- Learning more complex programming concepts.
- Use C++ language.
- Schedule
- Python to C++ introduction
- New C++ concepts
- Object-oriented programming (OOP)


## Online textbook

- Interactive textbook (zyBook).
- Sign-up at zybooks.com
- Must sign up with special code from class website.
- Cost is $\$ 67$.
- Includes examples, quizzes, and programming exercises.


## Grading

- Programming projects - 40\%
- Quizzes/zyBook - 10\%
- Midterm 1 (Feb 15, in class) - 15\%
- Midterm 2 (April 3, in class) - 15\%
- Final exam (May 2, 1pm [11am section], or May 6, 1pm [12pm section]) - $20 \%$


## Working independently

- Rule: In working on an assignment, you cannot look at any correct program or correct piece of code for the same assignment which someone else has written.


## Respect

- Respect your classmates and me during class times.
- 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.
- If you need to leave class in the middle, please raise your hand (or let me know ahead of time).


## 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 CS142

- 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 reading and zyBook material.
- Ask questions in class.
- See tutors and me for help.


## Introductions

- Name
- Class year
- Where you're from
- Favorite dessert
- 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.

