# CSSE 220 Day 4
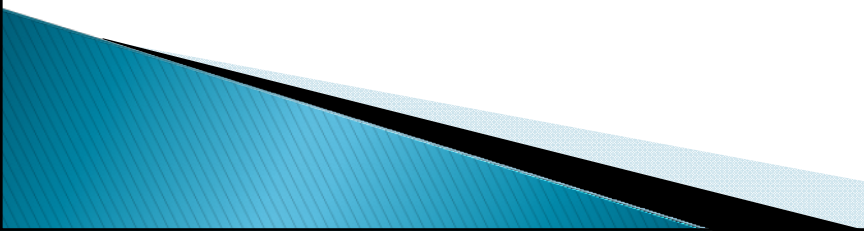
The Objects of this course …

# CSSE 220 Day 4

- Don't forget the Python *vs*. Java comparison document in the Resources folder on the Web.
- You really should consider having a study partner or putting together a study group for this course.
- There is no in-class quiz today; we will spend it doing things instead of just talking about them.
- I want to make sure we have the whole time today to work on that example.
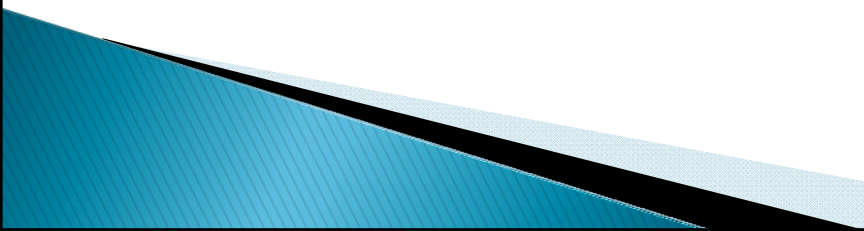
# Objects and Classes:
# By example, not by declaration

- By the time we finish this exercise, you should know experientially the meanings of these terms:
  - object
  - class
  - instance
  - field
  - method
  - constructor
  - private (information hiding)
  - encapsulation
  - this

# Javadoc

- Provides a convenient way to generate documentation directly in our code
  - similar to Python's "doc strings", but more flexible
- Look at Javadoc output for the String class.
- We will write javadoc comments and create the HTML files as we go along in our example today.
- Look at the documentation of the Point, Rectangle, and Circle classes (on a handout).
- We will write those classes.  Start with Point.

# Getting started

- Create a new Java project (call it PointRectCircle)
- In that project, create four new public classes:
  - Point
  - Rectangle
  - Circle
  - PointRectCircleTest (this class should have a **main** method, the others do not need it).

# To do before Session 5

- The next reading assignment.

- No ANGEL Quiz.

- Continue with the programming exercise from class. I will give more detailed instructions verbally.

- If you have not been able to install Subclipse, get help (probably better from the lab assistants than from me).