

# Learning Objectives for cs130:

Students will achieve initial mastery in fundamentals of programming in Java. They will be fluent with the following elementary concepts.

## **Problem solving techniques**

1. Stepwise refinement
2. Adopt a different perspective
3. Add/remove constraints
4. Solve a similar but smaller/simpler problem
5. Draw a picture
6. Count things

## **Computing concepts**

1. Files
2. Directories
3. Algorithms
4. Design

## **Java fundamentals**

1. variables
2. conditional statements
3. iterative statements
4. elementary Event handling
5. Applets
6. posting Applets on the web

## **Debugging strategies**

1. analysis
2. diagnostic output