

## CS 108 Review Sheet – Exam 2

Go through the below terminology and review lecture notes and homework.

Format: Multiple Choice/True or False and 1 long answer question

### Terminology

#### Week 6: Robotics

Robot  
Teleoperated vs. Autonomous  
Humanoid  
Industry Robots  
Home Helper Robots  
Roomba  
Rescue Robots  
Robots and Art  
Soccer Playing Robots  
Self-Driving Cars  
Educational Robots  
Lego Mindstorm Education EV3  
Hardware/Software  
Sensors  
EV3 Sensors:  
    Touch Sensor  
    Color (light) Sensor  
    Ultrasonic Sensor  
    Gyro Sensor  
Effectors  
Actuators  
Motors  
Brick  
Ports

Wait  
Switch

#### Weeks 11-12: VPython

VPython  
Python  
GlowScript  
Trinket  
Variables  
Loops  
Conditionals  
3D shapes, ex. spheres  
VPython Environment: Code Window, Display Window, Output Window  
X, Y, and Z axis  
Print  
Vectors  
Arrows  
Box  
Animation  
Rate

#### Week 7-10: Programming Robot

Ev3 Programming Environment  
Action/Flow/Sensor Blocks  
Program vs. Project  
Sound Block  
Display Block  
Move Steering – on, off, rotations, degrees, seconds  
3 Types of Turns  
Dancing Robots  
Robots and Sensors: Touch, Ultrasonic, Gyro, Color  
Gyro issues  
Loop