

Extending Classes

- Build classes that extend functionality of existing class
- Say we want to define Frosh as a subclass of Student
 - Frosh have all the same properties as Students
 - Frosh start with 0 units
 - We specially designate "Frosh" in string display of object
 - Just because your RAs love you!

Extending Classes

```
public class Frosh extends Student {  
    public Frosh(String name, int id) {  
        super(name, id); // calls Student constructor  
        setUnits(0);  
    }  
  
    // Override toString method of Student  
    public String toString() {  
        // studentID and studentName are private,  
        // so they are not directly accessible, even  
        // in subclass! Must use public "getters".  
        return ("Frosh: " + getName() +  
                " (#" + getID() + ")");  
    }  
}
```

- Everything else is inherited from Student