

September 9<sup>th</sup> 2016 CE

Cp213

## Introduction To object Oriented Programming

Lecture 1 start

Midterm in class October 31<sup>st</sup>

5 Assignments

Dr. Zima

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Can use old edition of Textbook

Can use code samples from behr in Assign

Assignment 1 Mon Sept 26<sup>th</sup>

Assignment 2 Monday Oct 17<sup>th</sup>

Assignment 3 Mon Nov 7<sup>th</sup>

Assignment 4 Mon Nov 21<sup>st</sup>

Assignment 5 Mon Dec 5<sup>th</sup>

Assign 40%

Midterm 20%

Final Exam 40%

if  $((m \times 0.2 + F \times 0.4) / 0.6 \geq 50)$  = pass  
Must pass exams to pass

If  $((m \times 0.2 + F \times 0.4) / 0.6 \geq 50)$

$$\text{Score} = 0.4 \times F + 0.2 \times m + 0.4 \times a ;$$

else...

Labs not marked → but some course info covered in labs isn't in class

~~Java~~

Lecture start

Java programming is a bunch of objects communicating

↳ Object interface

→ IF you want to prevent unintended use

↳ create interface → hide data → like car wheel hides axels

↳ called Encapsulation

Def Inheritance reuse implementation easily

↳ IF you change engine in car, The interface is the same just has a better implementation

A sub object "Instance of a class" has all properties or features of "super class"

Car → Toyota → corola

A corolla has all features of a car and a Toyota not every car is a Toyota or corola

Polymorphism → Apply same implementation to different code

## Encapsulation

↳ create interface to hide data

## Inheritance

↳ A sub class holds the parameters of its Super class

## PolyMorphism

↳ Apply Implementation to different things

↳ reuse Implementation Easily