

PACE-Monmouth Computer Science Syllabus for: 2018-2019

as of: 09-08-18

Fall 2018	
Date	Topic
8-Sep	Introductions & Class Overview
15-Sep	Introduction to Algorithms, key formulas & pseudo-code; Algorithm & pseudo-code exercises; Using Eclipse; Working with Projects, Packages & Classes in Eclipse; Hello World (basic)
22-Sep	Program structure & programming basics; introduction to variables; Start 1st assignment Using the pseudo-code worksheet; Going from pseudo-code worksheet to Java program; How to get Inputs from the keyboard; Saving & Exporting Projects
29-Sep	Overview of Variables & Types; Getting Keyboard inputs for different types; Overview of java Operators; Start 2nd assignment Using the pseudo-code worksheet,
6-Oct	Importing Projects; Work on 2nd & 3rd assignments
13-Oct	No Class - Engineering Trip
20-Oct	Finish 3rd assignment Introduce If ... Then ... Else; start 1st If Then Else assignment
27-Oct	finish 1st If Then Else project; start 2nd If Then Else (Climate Control)
3-Nov	Finish Climate Control project; introduce Problem Decomposition; Start Quadratic Equation
10-Nov	No Class - College Tour
17-Nov	Continue Quadratic
24-Nov	No Class - Thanksgiving
1-Dec	Finish up Quadratic; wrap-up Fall projects and lessons
Spring 2019	
Date	Topic
19-Jan	Introduce Looping (Rocket countdown; Climate Control with loops)
26-Jan	Looping Continued (Quadratic with Loops)
2-Feb	Introduce Case (Letter Grade --> Pass/Fail indication);
9-Feb	Introduce Spring Project (5-Star Mart); Introduce classes (menu class, store front class)
16-Feb	Continue Spring Project
23-Feb	Continue Spring Project
2-Mar	No Class - Engineering Trip
9-Mar	Continue classes (start cash register class)
16-Mar	Introduce arrays and database concept (build menu from CSV file)
23-Mar	Continue Spring Project
30-Mar	Finish database (build menu from CSV)
6-Apr	No Class - Math Bowl
13-Apr	Open House - student demos
20-Apr	No Class - Easter
27-Apr	Last day of PACE