

CS1 (PCM Analysis)

| **Core | *Practice | Connection | Identity |
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| <u>Objectives</u> <ul style="list-style-type: none"> • Input/Output <i>command line, GUIs, prompts, files</i> • Variables <i>Declaration, assignment, scope, expressions, mathematical and string operations</i> • Control Structures <i>Conditional, loops, conditional operations</i> • Arrays <i>Declaration, assignment, traversing, 1- and 2-D</i> • Object Basics <i>Definition, using, declaring</i> | <u>Objectives</u> <ul style="list-style-type: none"> • File organization <i>Directories; versions</i> • Code organization <i>Indenting, capitalization</i> • Functions/Methods <i>Calling, defining, parameters, object methods</i> • Troubleshooting <i>Compile time, run time, logical</i> • Using tech sheets <i>Learning from, writing</i> • Using objects <i>Existing objects, defining and declaring objects</i> | <u>Objectives</u> <ul style="list-style-type: none"> • Presentation skills <i>Oral skills, slide design, tag team presenting, handouts</i> • Using other knowledge in programs <i>Web design tips, user interface design, command line design</i> • Timelines <i>Milestones, priority</i> • Professional meeting skills <i>Minute taking, time keeping, agenda writing</i> | <u>Objectives</u> <ul style="list-style-type: none"> • Confidence in basic skills • Excitement about what can be done with computers • Ability to articulate learning |
| <u>Products</u> <ul style="list-style-type: none"> • Projects • Homework • Tests | <u>Products</u> <ul style="list-style-type: none"> • Projects • Homework • Tests | <u>Products</u> <ul style="list-style-type: none"> • Projects | <u>Products</u> <ul style="list-style-type: none"> • Portfolio • Reflections |
| <u>Instructional Strategies</u> <ul style="list-style-type: none"> • Pre-activity lecture • In-class activities | <u>Instructional Strategies</u> <ul style="list-style-type: none"> • In-class activities • Labs | <u>Instructional Strategies</u> <ul style="list-style-type: none"> • On line lessons | <u>Instructional Strategies</u> |