

**Learn to Code Camp**  
University of Maine  
**Draft Schedule and Agenda**

<b>Sunday June 25</b>			
	<b>Activity</b>	<b>Description / Comments</b>	<b>Lead Instructor(s)</b>
2:00 - 4:00 pm	Check In (Hart Hall)	Pick up Maine Card (for room & dorm access and for meals) Pick up Name Badge (worn at all times outside of dorm)	Harlan, Stacy, Rick, Hanna and Robert
4:00 pm	Orientation (Hart Hall)	Review Code of Responsibility, Safety Procedures and Group Protocols (review responses on all forms)	Hanna Karas and Robert Owens
4:45 - 5:30 pm	Dinner (Wells Commons)	<i>Note:</i> Dining room stops serving at 5:30 pm	
6:30 - 8:00 pm	Evening Activity	<b>Team Building</b> – see descriptions of all evening activities at end of the schedule	Hanna, Rob & Maine Bound Staff
10:00 pm	In Your Room		
Note: Devices and tools developed and programmed by undergraduate learning assistants as part of this project will be shown in short live demos throughout the five days.			
<b>Monday June 26</b>			
	<b>Activity</b>	<b>Description / Comments</b>	<b>Lead Instructor(s)</b>
6:30 -8:00 am	Breakfast		Hanna and Rob
8:30 am	Depart for Lab	Room 138 Boardman Hall Group photo on steps	
8:30 – 9:30	Session 1	Staff Introductions Rick Corey, Connie Holden, Harlan Onsrud Tim Bruce, Hanna Karas, Rob Owens Spencer Ward Pre-Workshop Evaluation	All  Stacy Doore
9:30 – 11:30	Session 2 Software Packet	Partner pairings for Day 1 Setting Up Computers – assigning machines, checking software, reviewing IDLE pp. 1-19	Rick Corey All
10:00	Break	Room 137 snacks and/or 10-minute walk	
	Session 3 Day1 Packet	<b>Concepts</b> (& PBJ exercise) pp. 21-23 Programming is Problem Solving Algorithms Literalism Syntax Semantics Exercises	Hanna Karas
11:30 – 12:30	Lunch		Hanna and Rob
12:30 – 4:00	Session 4	<b>Hello World and Variables</b> pp. 25-31 Hello, World Variables Key Points Exercises  <b>Movement and Other Output</b> pp. 33-38 Setting up a Finch Program Moving the Finch Lighting the Nose Making Some Noise Simultaneous Behavior Key Points Exercises	Tim Bruce

2:00	Break	Room 137 snacks and/or 10-minute walk	
4:30 - 5:30 pm	Dinner	Note: Dining room stops serving at 5:30 pm	Hanna and Rob
6:30 - 8:00 pm	Evening Activity	<b>Paddle Sports</b> (optional) - see descriptions of all evening activities below	Hanna or Rob & Maine Bound Staff
10:00 pm	In Rooms		
<b>Tues June 27</b>			
	<b>Activity</b>	<b>Description / Comments</b>	<b>Lead Instructor(s)</b>
6:30 -8:00 am	Breakfast		Hanna and Rob
8:30 am	Depart for Lab	Room 138 Boardman Hall	
8:30 – 11:30	Session 5 Day2 Packet	Partner pairings for Day 2 <b>Text Input and Conditionals</b> pp. 39-55 Text Input Strings and Numbers Truth Statements Conditionals, Multiple Conditionals Nested Conditionals Flags in Conditionals Key Points Exercises	Rob Owens
10:00	Break	Room 137 snacks and/or 10-minute walk	
11:30 – 12:30	Lunch		
12:30 – 4:00	Session 6	<b>Loops and Flags</b> pp.57-61 While Loops Using Flags with Loops For Loops Nested Loops Key Points Exercises  <b>Continuous Behavior</b> pp. 63-65 Continuous Behavior Combining Conditionals and Iteration Simultaneous Behavior: Revisited Key Points Exercises	Spencer Ward
2:00	Break	Room 137 snacks and/or 10-minute walk	
4:30 - 5:30 pm	Dinner		
6:30 - 8:00 pm	Evening Activity	<b>Rock Climbing Wall</b> (optional)	Hanna or Rob & Maine Bound Staff
10:00 pm	In Rooms		
<b>Wednesday June 28</b>			
	<b>Activity</b>	<b>Description / Comments</b>	<b>Lead Instructor(s)</b>
6:30 -8:00 am	Breakfast		Hanna and Rob
8:30 am	Depart for Lab	Room 138 Boardman Hall	
8:30 – 11:30	Session 7 Day3 Packet	Partner pairings for Day 3 <b>Functions</b> pp.67-69 Functions Parameters and Arguments Variable Scoping Exercises	Rob Owens
10:00	Break	Room 137 snacks and/or 10-minute walk	
11:30 – 12:30	Lunch		
12:30 – 4:00	Session 8	<b>Using Functions: Navigation</b> pp. 71-76 Using Functions Responding to the Environment with Functions Function Application: Navigation	Tim Bruce

		Key Points Exercises	
2:00	Break	Room 137 snacks and/or 10-minute walk	
4:30 - 5:30 pm	Dinner		
6:30 - 8:00 pm	Evening Activity	<b>Zip Lining</b> (optional)	Hanna or Rob & Maine Bound Staff
10:00 pm	In Rooms		
<b>Thursday June 29</b>			
	<b>Activity</b>	<b>Description / Comments</b>	<b>Lead Instructor(s)</b>
6:30 -8:00 am	Breakfast		Hanna and Rob
8:30 am	Depart for Lab	Room 138 Boardman Hall	
8:30 – 11:30	Session 9 Day4 Packet	Project groupings for Day 4 <b>Projects</b> pp.77 <ul style="list-style-type: none"> <li>• Stay in the Light</li> <li>• Stay out of the Light</li> <li>• Race to the Finish</li> <li>• Escape the Maze</li> </ul>	Hanna Karas  A learning assistant works with each team
10:00	Break	Room 137 snacks and/or go for 10-minute walk	
11:30 – 12:30	Lunch		
12:30 – 4:00	Session 8	<b>Projects</b> - continued	Hanna Karas
2:00	Break	Room 137 snacks and/or go for 10-minute walk	
4:30 - 5:30 pm	Dinner		
6:30 - 8:00 pm	Evening Activity	<b>Movie Night</b> / Board Game Night (optional)	Hanna and Rob
10:00 pm	In Rooms		
<b>Friday June 30</b>			
	<b>Activity</b>	<b>Description / Comments</b>	<b>Lead Instructor(s)</b>
6:30 -8:00 am	Breakfast		Hanna and Rob
9:00 am		Depart VEMI Lab	
9:00 - 10:00		<b>Virtual Reality and VEMI Lab Tour</b> Carnegie Hall	
10:00 - 11:00		<b>Program Evaluation</b> (&snacks) 309 Boardman	Stacy Doore
11:00 – 12:30		<b>Project Demos by Camp Teams</b> (& pizza lunch) 138 Boardman & 137 Boardman	
12:30 – 2:00	Session 8	<b>Speaker/Panel Presentation</b> (Room 309 Boardman) Matt Hanson, Tyler Technologies, UMaine CS Graduate Katelyn Manzo, Senior, BS-CS Program, Toni Kaplan, HCI PhD Student, Carnegie Mellon <b>Awards</b>	Rick/Harlan
2:00	Return to Dorm		
3:00 – 4:00 pm	Student Check Out	Pick up by parents at Hart Hall	

## Planned Evening Activities

The following camp activities are optional except that all will participate and/or observe the Teambuilding exercises on Sunday evening. On other evenings, one chaperone will lead and stay with the activity group while the other will stay in the dorm with those choosing not to participate. Evening activities after dinner will last typically 1.0 to 1.5 hours. Use of the Recreation Center (<https://umaine.edu/campusrecreation/>) requires a photo ID or proof of identity. All participants in any of the Mon through Wed activities must have on file a Rec Center form signed by both participant and parent. Please bring appropriate clothing, shoes, swimwear, etc.

### **Teambuilding**

We have a variety of low rope activities and challenges for groups to complete, ranging from high wall, spiders-web, nitro crossing, the Mohawk walk and TP Shuffle. These elements involve group processing techniques and team building. The elements consist of wire walking, wall climbing, and sometimes rope swinging. A lot of fun. You may choose to opt in or out of any of the individual activities.

### **Zip Lining**

Zip along a wire through the trees of the University Forest. Climb a 35 ft tower to a platform and then zip down into the forest for a ride of approximately 300 ft through the trees. Great spectator sport as well.

### **Paddle Sports**

Kayak, canoe, or stand up paddleboard along the Stillwater river directly on campus. Based on experience level, the Maine bound staff will take the group upriver to view the Stillwater Dam, and then a nice leisurely paddle back down to the University.

### **Recreation Center**

<<inclement weather option>>

Swim, play basketball, use exercise equipment, walk or run around indoor track, etc.

### **Rock Climbing**

Have fun on the indoor climbing wall located in an antique barn. The wall is 32 ft. high and we also have a 12 ft bouldering wall.

### **Movie and Board Game Night**

Hartman Hall common room

Friday June 30			
	Activity	Description / Comments	Lead Instructor(s)
6:30 -8:00 am	Breakfast		Hanna and Rob
9:00 am		Depart VEMI Lab	
9:00 - 10:00		<b>Virtual Reality and VEMI Lab Tour</b> Carnegie Hall	Rick
10:00 - 10:45		<b>Program Evaluation (&amp;snacks)</b> 309 Boardman	Stacy Doore
10:45 – 11:45		<b>Project Demos by Camp Teams</b> 138 Boardman	Rick et. al.
11:45 - `12:30		<b>Lunch</b>	
12:30 – 2:00	Session 8	<b>Speaker/Panel Presentation</b> (Room 309 Boardman) Matt Hanson, Tyler Technologies, UMaine CS Graduate Katelyn Manzo, Senior, BS-CS Program, Toni Kaplan, HCI PhD Student, Carnegie Mellon <b>Awards</b>	Rick/Harlan
2:00	Return to Dorm		
3:00 – 4:00 pm	Student Check Out	Pick up by parents at Hart Hall	