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<th>Monday</th>
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| **August 22**  
New Student Days | **August 23**  
New Student Days | **August 24**  
Registration | **August 26**  
Introduction  
Problem-Solving Process  
Module 0: Linux Introduction  
Linux Examples |
| **August 29**  
Module 0: Linux Basics  
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mkdir, cd, ls, mv, cp | **August 30**  
Module 0: Linux  
LABORATORY EXERCISE 2  
Files  
Permissions | **August 31**  
Module 0: Linux  
LABORATORY EXERCISE 3  
Files  
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Module 0: Introduction to C  
LABORATORY EXERCISE 4  
C Examples |
| **September 5**  
Module 0: Introduction to C  
LABORATORY EXERCISE 5  
Scribbler 2  
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Sound | **September 6**  
Module 0: Project  
– Program a Song | **September 7**  
Module 1: Examples | **September 9**  
Module 1: Types and variables (with casting)  
LABORATORY EXERCISE 6 |
| **September 12**  
Module 1: Conditionals  
LABORATORY EXERCISE 7  
Scribbler 2  
Motion  
Sensors | **September 13**  
Module 1: Loops  
LABORATORY EXERCISE 8 | **September 14**  
Module 1: Loops and  
Scribbler 2 Motion  
LABORATORY EXERCISE 9 | **September 16**  
Module 1: Project  
– Song and Dance |
| **September 19**  
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use of Scribbler 2 sensors | **September 20**  
Module 2: one-dim. arrays  
LABORATORY EXERCISE 10 | **September 21**  
Module 2: functions and testing  
LABORATORY EXERCISE 11 | **September 23**  
Hour Test 1 |
| **September 26**  
Module 2: values, addresses and the & operator  
LABORATORY EXERCISE 12 | **September 27**  
Module 2: values, addresses and the & operator  
LABORATORY EXERCISE 13 | **September 28**  
Module 2: Project – Follow a moving object | **September 30**  
Representation of Numbers  
binary integers  
sign/magnitude,  
twos complement |

* = class includes mini-lecture  
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<td><strong>October 3</strong>&lt;br&gt;Data Representation^{EC}&lt;br&gt;Laboratory Exercise 14&lt;br&gt; - Integer representation&lt;br&gt; - Non-negatives&lt;br&gt; - Sign-magnitude notation&lt;br&gt; - Ones &amp; twos complement&lt;br&gt; - Bitwise operations</td>
<td><strong>October 4</strong>&lt;br&gt;Data Representation^{Req}&lt;br&gt;Laboratory Exercise 15&lt;br&gt; - Floating-point numbers&lt;br&gt; - Roundoff errors&lt;br&gt; - Numerical errors</td>
<td><strong>October 5</strong>&lt;br&gt;Module 3: Examples&lt;br&gt; - Characters&lt;br&gt; - Strings</td>
<td><strong>October 7</strong>&lt;br&gt;Module 3: Characters &amp; Strings&lt;br&gt;Laboratory Exercise 16</td>
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<td><strong>October 10</strong>&lt;br&gt;Module 3: I/O&lt;br&gt;Laboratory Exercise 17&lt;br&gt;scanf, printf</td>
<td><strong>October 11</strong>&lt;br&gt;Module 3: I/O&lt;br&gt;Laboratory Exercise 18&lt;br&gt;fgets</td>
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<td><strong>October 14</strong>&lt;br&gt;Module 3: Project&lt;br&gt; - Robot follows interactive commands</td>
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<td><strong>October 17</strong>&lt;br&gt;Break</td>
<td><strong>October 18</strong>&lt;br&gt;Break</td>
<td><strong>October 19</strong>&lt;br&gt;Break</td>
<td><strong>October 21</strong>&lt;br&gt;Break</td>
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<td><strong>October 24</strong>&lt;br&gt;Module 3: Project&lt;br&gt; - Robot follows interactive commands</td>
<td><strong>October 25</strong>&lt;br&gt;Module 4: Examples</td>
<td><strong>October 26</strong>&lt;br&gt;Module 4: Transform a Pixel&lt;br&gt;Laboratory Exercise 19</td>
<td><strong>October 28</strong>&lt;br&gt;Module 4: Transform Pixels in a picture&lt;br&gt;Laboratory Exercise 20</td>
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<td><strong>October 31</strong>&lt;br&gt;Module 4: Sorting - insertion&lt;br&gt;Laboratory Exercise 21</td>
<td><strong>November 1</strong>&lt;br&gt;Module 4: Project – Picture Transformation&lt;br&gt;compile with Makefile&lt;br&gt; (use Makefile for later projects)</td>
<td><strong>November 2</strong>&lt;br&gt;Module 5: Examples</td>
<td><strong>November 4</strong>&lt;br&gt;Module 4: Project – Picture Transformation</td>
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<td><strong>November 7</strong>&lt;br&gt;Module 5: Pointers&lt;br&gt;Laboratory Exercise 22</td>
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<td><strong>November 9</strong>&lt;br&gt;Module 5: Linked Lists&lt;br&gt;Laboratory Exercise 24</td>
<td><strong>November 11</strong>&lt;br&gt;Module 5: Project: Insert theme into song</td>
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<td><strong>November 14</strong>&lt;br&gt;Module 5: Project: Insert theme into song</td>
<td><strong>November 15</strong>&lt;br&gt;Module 6: Examples&lt;br&gt; - Stacks&lt;br&gt; - Queues</td>
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<td>Hour Test 3</td>
<td>Module 6: Bash scripts</td>
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<td>Module 6: Project – Video</td>
<td>Module 7: Examples</td>
<td>Module 7: Command-line Args.</td>
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<td>read and write to files</td>
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<td>Module 7: Project – robot</td>
<td>Semester Wrap-Up</td>
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<td>motion with logging</td>
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<td>include, separate compilation</td>
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<td>separate linking</td>
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