<table>
<thead>
<tr>
<th>Module</th>
<th>Topics</th>
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<tbody>
<tr>
<td>#1: 04/01 – 04/07</td>
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</table>
| Syllabus Quiz | • Introduction to Assembly Language  
| Module 1 Summary Exercises | • Internal Data Representation  
| Project #0 | • Binary/Hexadecimal Arithmetic  
| | • Computer Architecture Fundamentals  
| | • IA-32 Basic Execution Environment  
| Syllabus Quiz |  |
| Module 1 Summary Exercises |  |
| Project #0 |  |
| #2: 04/08 – 04/14 |  |
| Module 2 Summary Exercises | • MASM Assembly  
| Project #1 | • Introduction  
| | • How Instructions Work  
| | • Defining Data (Variables)  
| | • Arithmetic Operations  
| Module 2 Summary Exercises | • Irvine Procedures and your First Program  
| #3: 04/15 – 04/21 |  |
| Module 3 Summary Exercises | • MASM Assembly  
| Project #2 | • Conditions and Control Structures  
| | • Repetition Structures  
| Module 3 Summary Exercises | • Using the Visual Studio Debugger  
| Project #1 |  |
| #4: 04/22 – 04/28 |  |
| Module 4 Summary Exercises | • MASM Assembly  
| Project #3 | • Defining Constants  
| Quiz #1 | • Data Validation  
| Module 4 Summary Exercises | • Endianness  
| Project #2 | • IEEE 754 Floating Point Format  
| Quiz #1 |  |
| #5: 04/29 – 05/05 |  |
| Module 5 Summary Exercises | • The Runtime Stack  
| | • Program Design (Modularization)  
| Module 5 Summary Exercises | • MASM Assembly  
| Project #3 | • Procedure Calls/Returns  
| | • Procedure Documentation  
| | • Passing Parameters to Procedures  

*Weeks are shown Monday-Sunday, Assignments are due Sunday 11:59pm Pacific Time unless otherwise specified. Schedule subject to change based on material pace. New Assignments are in BLACK. Due Assignments are in RED.*
<table>
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| #6: 05/06 – 05/12 | • Error Detecting Codes  
  • Review for Midterm Exam |
| Module 6 Summary Exercises  
  Project #4  
  Midterm Exam |  
  Module 6 Summary Exercises  
  Midterm Exam |
| #7: 05/13 – 05/19 | • MASM Assembly  
  o More Parameter Passing (Stack)  
  o Arrays & Array parameters |
| Module 7 Summary Exercises  
  Project #5 |  
  Module 7 Summary Exercises  
  Project #4 |
| #8: 05/20 – 05/26 | • MASM Assembly  
  o Data-related operators  
  o String Processing  
  o Macros |
| Module 8 Summary Exercises  
  Project #5 |  
  Module 8 Summary Exercises  
  Project #4 |
| #9: 05/27 – 06/02 | • Reverse Polish Notation (RPN)  
  • IA-32 floating-point unit (FPU) |
| Module 9 Summary Exercises  
  Project #6  
  Quiz #2 |  
  Module 9 Summary Exercises  
  Quiz #2 |
| #10: 06/03 – 06/09 | • CISC vs. RISC Architectures  
  • Parallelism  
  • Review for final exam |
| Module 10 Summary Exercises  
  Project #6 |  
  Module 10 Summary Exercises  
  Project #6 |
| #11: 06/10 – 06/15  
  Finals Week |  
  Final Exam  
  (Available Sunday – Wednesday only) |