Rose-Hulman Institute of Technology
Computer Science and Software Engineering
Prof. Archana Chidanandan

# Syllabus[1]

| Week starting | Day | Topics | Reading (Sections) | Due |
|---|---|---|---|---|
| 11/29 | T | Course overview/Project Overview | | |
| | W | Intro. To MIPS, SPIM* | 2.3,2.5 | |
| | R | Conditional statements* | 2.6 | Teams, Proposed meeting times[2] |
| 12/06 | T | Procedures* | 2.7 | |
| | W | Addressing modes* | 2.9 | |
| | R | Representing instructions* | 2.4 | |
| 12/13 | T | Exceptions | | |
| | W | Computer arithmetic/Xilinx installation | 3.3 | |
| | R | Xilinx exercise | | Assembly Language and Machine Language specifications (M1) |
| **Winter break** | | | | |
| 01/03 | T | Group Meetings and Project Time | | |
| | W | Register Transfer Language | 5.5 | |
| | R | Exam 1 | | |
| 01/10 | T | Exceptions/ Xilinx exercise | | |
| | W | Single cycle datapath implementation | 5.3-4 | |
| | R | Multi-cycle datapath implementation | 5.5 | RTL Specifications (M2) |
| 01/17 | T | ALU Design/ Xilinx Exercise | 3.3 | |
| | W | Xilinx Exercise | | |
| | R | Group Meetings and Project Time | | |
| 01/24 | T | Control design (FSM)/ Xilinx Exercise | 5.5 | Datapath Design and Component Specification. (M3) |
| | W | Control design (Micro-programming)/Xilinx Exercise | 5.53-54 | |
| | R | Group Meetings and Project Time | | |
| 01/31 | T | Xilinx Exercise | | |
| | W | Performance | Ch. 4 | |
| | R | Group meetings and project time | | Control unit design and components implementation (M4) |
| 02/07 | T | Floating Point | 3.30-31,48 | |
| | W | Recursion and stacks | 2.7 | |
| | R | Group meetings and project time | | Component Integration and Datapath Testing (M5) |
| 02/14 | T | Exam 2 | | |
| | W | Group meetings and project time | | |
| | R | Group meetings and project time | | Final Xilinx model |
| 02/21 | | **Finals week (Project Presentations)** | | |

[1] This is a tentative schedule. It may be changed at the discretion of the instructor.
[2] See the CSSE 232 (03-04 Winter) Term Project Requirements document for details about term project turn-ins.