CS 271 Computer Architecture and Assembly Language Course Calendar* Spring 2022

*Weeks are shown Sunday-Sunday, Assignments are due the 2nd 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.

Module New Assignments are	
	Topics
#1: 3/27 – 4/3 Syllabus Quiz Module 1 Summary Exercises Project #0	 Introduction to Assembly Language Internal Data Representation Binary/Hexadecimal Arithmetic Computer Architecture Fundamentals IA-32 Basic Execution Environment
Syllabus Quiz Module 1 Summary Exercises Project #0	
#2: 4/3 – 4/10 Module 2 Summary Exercises Project #1 Module 2 Summary Exercises	 MASM Assembly Introduction How Instructions Work Defining Data (Variables) Arithmetic Operations Irvine Procedures and your First Program
#3: 4/10 – 4/17 Module 3 Summary Exercises Project #2 Module 3 Summary Exercises	 MASM Assembly Conditions and Control Structures Repetition Structures Using the Visual Studio Debugger
Project #1 #4: 4/17 – 4/24 Module 4 Summary Exercises Project #3 Quiz #1 Module 4 Summary Exercises Project #2 Quiz #1	 MASM Assembly Defining Constants Data Validation Endianness IEEE 754 Floating Point Format
#5: 4/24 – 5/1 Module 5 Summary Exercises Module 5 Summary Exercises Project #3	 The Runtime Stack Program Design (Modularization) MASM Assembly Procedure Calls/Returns Procedure Documentation Passing Parameters to Procedures

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Module	Topics
# 6 : 5/1 – 5/8	Error Detecting Codes
Module 6 Summary Exercises Project #4 Midterm Exam	Review for Midterm Exam
Midterm Exam	Midterm Exam
Module 6 Summary Exercises Midterm Exam	(Wednesday, May 4th)
#7: 5/8 – 5/15 Module 7 Summary Exercises	 MASM Assembly More Parameter Passing (Stack) Arrays & Array parameters
Project #5	
Module 7 Summary Exercises Project #4	
#8: 5/15 – 5/22	MASM AssemblyData-related operators
Module 8 Summary Exercises	 String Processing Macros
Module 8 Summary Exercises Project #5	
#9: 5/22 – 5/29	Reverse Polish Notation (RPN)
Module 9 Summary Exercises Project #6 Quiz #2	IA-32 floating-point unit (FPU)
Module 9 Summary Exercises Quiz #2	
#10: 5/29 – 6/5	CISC vs. RISC Architectures
Module 10 Summary Exercises	ParallelismReview for final exam
Module 10 Summary Exercises Project #6	
#11: 6/5 – 6/12	Final Exam
Finals Week	(Thursday, June 9th @ 6pm)