# **Course Schedule**

## **Metropolitan State University**

ICS 462-02 Operating Systems Spring 2021

## **Class Hours:**

Wednesdays, 6:00pm - 9:20pm Synchronized meeting Zoom Meeting ID: 976 7868 7507 || Passcode: 46202 January 13 - April 28, 2021

#### Note:

1. **Programming Assignments** are due at **5:30pm** on its due date **Wednesdays** (i.e., before class begins).

Week	Dates	Description	Assignments	Assign. Due
1)	1/13/2020	Lecture: 1. C Programming – Overview 2. Introduction to Operating Systems	Reading: 1. Chp002 - Introduction to OS  Programming: 1. Project #1: Intro to C & OS	
2)	1/20/2020	Lecture: 1. Processes	Reading: 1. Chp004 - CPU - Processes 2. Chp005 - CPU - Process API 3. Chp006 - CPU - Direct Execution	
3)	1/27/2020	Lecture: 1. Scheduling	Reading: 1. Chp007 - CPU - Scheduling 2. Chp008 - CPU - Scheduling -MLFG 3. Chp009 - CPU - Scheduling -Proportional Share	

			Reading:	
4)	2/3/2020	Lecture: 1. Multithreading	1. <b>Chp026</b> - SYNC - Concurrency	
			2. <b>Chp027</b> - SYNC - Thread API	Project #1
			Programming:	
			1. <b>Project #2</b> : Synchronization	
			Reading:	
	2/10/2020	Lecture: 1. Synchronization I	1. <b>Chp028</b> - SYNC - Locks	
5)			2. <b>Chp030</b> - SYNC - Condition Variables	
			Reading:	
		Lecture:	1. <b>Chp031</b> - SYNC - Semaphores	
6)	2/17/2020	1. Synchronization II	2. <b>Chp032</b> - SYNC - Common Concurrency Problems	
			Reading:	
	2/24/2020		1. <b>Chp013</b> - VM - The Abstraction -Address Spaces	
7)		Lecture:	2. <b>Chp014</b> - VM - Interlude -Memory API	Descionat IIO
7)		1. Memory I	3. <b>Chp015</b> - VM - Mechanism -Address Translation	Project #2
			Programming:	
			1. <b>Project #3:</b> Memory	
8)	3/3/2020	MIDTERM EXAM		
9)	3/10/2020	SPRING BREAK/NO CLASSES/OFFICES OPEN		
			Reading:	
	3/17/2020	Lecture: 1. Memory II	1. <b>Chp018</b> - VM - Paging -Introduction	
10)			2. <b>Chp019</b> - VM - Paging -Faster Translations (TLBs)	
		I. Memory II		
	3/24/2020	Lecture: 1. Memory III	Reading:	
			1. <b>Chp020</b> - VM - Paging -Smaller Tables	
11)			2. <b>Chp021</b> - VM - Beyond Physical Memory - Mechanisms	
		1. Picinory in		

12)	3/31/2020	Lecture: 1. I/O Systems	Reading: 1. Chp036 - IOS - IO Devices 2. Chp037 - IOS - Hard Disk Drives 3. Chp038 - IOS - RAIDs	
13)	4/7/2020	Lecture: 1. File System	Reading: 1. Chp039 - FS - Files and Directories 2. Chp040 - FS - File System Implementation	Project #3
14)	4/14/2020	Lecture: 1. Security I	Reading: 1. Chp053 - SEC - Introduction to OS Security 2. Chp054 - SEC - Authentication	
15)	4/21/2020	Lecture: 1. Security II	Reading: 1. Chp055 - SEC - Access Control 2. Chp056 - SEC - Cryptography	
16)	4/28/2020	FINAL EXAM		

#### NOTE:

 $The \ instructor \ reserves \ the \ rights \ to \ adjust \ this \ Schedule \ and \ Assignments \ as \ needed.$