CSIT 217-99V Operating Systems CRN 27552 - Spring 2023
Syllabus v0.0

Section Info

Section 99v - CRN 27552

Course Modality: Online

This Online Section of the course does not meet in a classroom. This section uses a Learning Management System (LMS) called Canvas. See: https://rvcc.instructure.com/

Syllabus Versions

- Version 0.0 - 1/8/2023 - Initial Version

Book Information:

Understanding Operating Systems, 8th Edition, Ann McHoes and Ida M. Flynn, Cengage, 2018, eBook ISBN-10: 1337669423 ISBN-13: 9781337669429
Bound Book ISBN-10: 1305674251 ISBN-13: 9781305674257
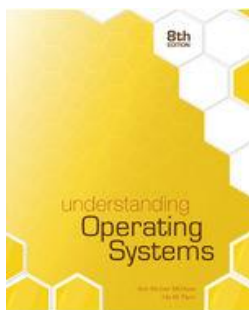
Picture of Cover:

Instructor Information:

Name: Stephen T. Brower   **Office:** West Building W324
Work # (908) 526-1200 x8259   **preferred email:** stephen.brower@raritanval.edu

Department Information:

Math and Computer Science Department. Chair: Dr. Lori Austin, Lori.Austin@raritanval.edu

Spring 2023 Office Hours (1/18-5/2):
- Monday 1:00 - 2:30 & 5:30 - 6:30
- Wednesday 1:00 - 2:30 & 5:30 - 6:30
- and by appointment

Course Overview

Prerequisite/s: CSIT(CISY)-103 Computer Concepts & Programming or CSIT(CISY)-105, Foundations of Computer Science, or permission of the Instructor) Operating Systems introduces the student to the fundamental concepts and facilities of the system software which manages all computers. Topics include: memory management, process management, processor management, process synchronization and coordination, device management, the user interface, security and administration. Students will learn operating systems concepts and theories and apply them to commercial operating systems. [Also CIS Elective]

General Education Learning Outcomes

After completion of this course, the student will be able to:

- Analyze complex system requirements and specify operating system features to meet them. (GE-NJ 2)

Course Learning Outcomes

At the conclusion of the course, students will be able to:

1. Describe the role of an operating system in a computing environment.
2. Identify the differences between different types of operating systems, such as interactive and real-time.
3. Specify an appropriate operating system given particular system requirements.
4. Describe how operating systems manage resources.
5. Define the algorithms used in the management of system resources.
6. Describe the basic functions involved in system administration and security.

Course Management, Structure and Pace

When this course meets in a classroom, it meets for approximately four hours total. Those students in a traditional class should plan on putting in at least two hours of study time for every

hour spent in class for lecture. Additionally, students should plan study time of another half hour for every hour spent in lab. Students who are successful in this class typically spend approximately five hours *outside of class* each week working on the subject. This includes reviewing class notes, reading and studying the textbook, doing written homework and working on Labs.

Since this is an online class, you should budget the four hours that would have been in class and the five hours outside of class for a total of nine (9) hours a week.

Course Routine

The "traditional sections" of the course usually consist of 3 possible segments: Lecture, Lab Lecture, and Lab Time

As an online course, there is no lecture. But there are slides to look at, and the Instructor has created some (lame) YouTube videos.

As an online course, you will work on the labs independently. If you get stuck instead of raising your hand you will send an email to the instructor.

You should be able to do ~95% of the work from your computer at home. But there may be 1 or 2 lab exercises that will require a Windows based computer to complete the lab. An effort has been made to provide "Mac" alternatives to the Windows based labs.

The approach that the course takes is that weeks end on Fridays. So assignments are due on Fridays but can be submitted early.

Which Email to use and Email Response Time

If you have a question or you need an assignment "returned to you" in Canvas, the preferred (fastest) way to contact the instructor is via his preferred email**:** stephen.brower@raritanval.edu

Over the years, I have found the email system embedded in Canvas frustrating. So please email me at: stephen.brower@raritanval.edu

The goal is to respond in less than 24 hours.

Occasionally there are known exceptions such as during Spring Break where a response may take a little longer. If the instructor knows ahead of time there will be a period of unavailability longer than 24 hours, that will be communicated to the class.

Grade Determinants

Item	Percent
Homework	15%
Labs	20%
Discussions	10%
Research Projects	15%
Mid-Term Exam	20%
Final Exam	20%

Grades

Grade	% Range
A	89.5-100.0+
B+	86.5-89.4
B	79.5-86.4
C+	76.5-79.4
C	69.5 - 76.4
D	59.5 - 69.4
F	0 - 59.4

Homework

The Homework assignments will be posted in Canvas and are available from the Syllabus tab and the Modules tab in Canvas.

The homework will be submitted via Canvas. The documents you submit can be:
- typed in Microsoft Word and the .docx file attached
- typed in different word processor as long as it is saved in RTF format and the RTF file can then be attached
- For some items you may want to handwrite/draw the homework, scan it using a scanner (or digital camera), and then you can attach the picture

See below for the Late Policy(don't be late) and the Cheating Policy (don't cheat)

Labs

Labs are available from the Syllabus tab and the Modules tab and will be a combination of problems assigned from the book or problems provided by the instructor. Some labs may have parts that require simple searches either on the Internet or the ACM Digital Library.

Files to be submitted for the labs will be submitted via Canvas

See below for the Late Policy (don't be late) and the Cheating Policy (don't cheat)

Discussions

The Discussions can be thought of as a "class participation" grade, but one that can be quantified. The Discussions are available from the Syllabus tab and the Modules tab. There will be about 1 discussion a week

Many of the topics ask for your opinion and there is no right or wrong answer, but the answer has to address the question. For example, if the question was "would you enter your credit card # on a web page?" and your answer was "I feel society has become too materialistic" that doesn't answer the question and that would be a 0. But if your response was "I wouldn't enter my credit card # *because I don't have a credit card* because I believe society is too materialistic" that does answer the question of 'entering the credit card #' and that would be a perfect score.

If I was a good online teacher, I would make the grade based not only on your post, but on your meaningful responses to at least three other postings.

But, since I'm not a good online teacher ~~your grade will be based 80% on your post and 20% on your reading of the other students posts (I can run a report to see how many postings you read)~~. No, I can't easily run that report. I hate Canvas. Your grade will be based 100% on your post.

See below for the Late Policy (don't be late) and the Cheating Policy (don't cheat)

Research Projects

Research Projects will be individual research exercises that are a little more involved than Labs but not as formal as a Research Paper. Research Projects will usually have more than a week to complete.

Research Projects will be done in a word processor (Microsoft Word or a different Word Processor and saved in rtf format).

Research Projects will be available from the Syllabus tab and the Modules tab in Canvas

See below for the Late Policy (don't be late) and the Cheating Policy (don't cheat)

Exams

Note the Class Schedule for the due dates for the exams.

Exams must be completed by the date due. The exams will be posted at least a week before they are due.

The Midterm Exam will be a combination of multiple choice and "problem" based questions; the Final Exam will be multiple choice only. The exams will be completed in Canvas.

Cheating Policy

Don't cheat!

You must work alone on the Research Projects, Labs, and Homework. Working with someone is considered cheating. Taking a file that someone else created is considered cheating. Having your neighbor work on your computer is considered cheating. Collaborating on logic is cheating. Cheating is not allowed.

Cheating is also not allowed on Exams.

All parties involved in cheating (including the one who shares) will be dealt with according to the school's policy on cheating. The penalty can range from 0 on the assignment to F for the course.

Late Policy

Don't submit work late!

According to the RVCC Catalog, students are not to be penalized for 1 week of absences. To accommodate this, at the end of the semester the lowest homework, the lowest discussion, and the lowest lab will be dropped.

Since there are only a few Research Projects, the lowest will not be dropped.

Extra Credit

Some exams/homework/labs/research projects *may* contain extra credit questions/opportunities. Other than that, no extra credit opportunities will be provided.

For example, if you choose not to submit ANY homework and then in April you ask for "Extra Credit" to make up for the missed homework, the answer is NO.

Class Attendance (Presence)

Attendance for an online course will be based on presence through discussions and submission of assignments.

See "Syllabus Part II" for official policy.

Student Handbook

You are responsible for all policies stated in the Student Handbook.
See: http://commons.raritanval.edu/studentserv/conduct/pages/Policies_and_Documents.aspx

Withdrawal Procedure

See school's webpage for Spring 2023 Withdrawal and Refund Schedule and Refund Info (see:
https://commons.raritanval.edu/admin/finance/Documents/Spring%202023%20WithdrawalRefundSchedule%20and%20Enrollment_Payment%20Calendar.pdf)

(see: https://commons.raritanval.edu/admin/finance/Pages/refund_info.aspx)

Class Schedule

Please see the Class Schedule and/or the Syllabus tab in Canvas for the listing of lecture topics and timing of homework / labs / research projects / exams

Syllabus Part 2-College Policies

Please see the "Syllabus Part 2-College Policies" document

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