

**CS 82.51 Course Outline as of Fall 2015****CATALOG INFORMATION**

Dept and Nbr: CS 82.51 Title: VIRUS PROTECTION

Full Title: Virus Protection and Internet Security

Last Reviewed: 10/4/2010

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	0.50	17.5	Lecture Scheduled	8.75
Minimum	0.50	Lab Scheduled	0	2	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	0.50		Contact Total	8.75
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 17.50

Total Student Learning Hours: 26.25

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: CIS 50.13

**Catalog Description:**

Overview of computer viruses and disk backup techniques for personal computers. Topics include the prevention and detection of virus infections, removal of viruses, downloading virus detection software and updates from the Internet.

**Prerequisites/Corequisites:****Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

**Limits on Enrollment:****Schedule of Classes Information:**

Description: Overview of computer viruses and disk backup techniques for personal computers. Topics include the prevention and detection of virus infections, removal of viruses, downloading virus detection software and updates from the Internet. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of the course, students will be able to:

1. Describe four types of viruses and how they behave.
2. Configure a virus detection program.
3. Detect and remove a virus from the computer.
4. Download a virus update from the Internet.

### **Topics and Scope:**

1. Definition of a computer virus
2. Definition of malware
3. Virus information resources
4. Computer system vulnerability
5. Combination Internet security suites
6. Firewall software -- your first line of defense
7. Antivirus Software
  - a. Anti-Spyware
  - b. Anti-Phishing
8. Operating system updates
9. Rootkit protection
10. Web browser security
  - a. Limited user account options
  - b. Online safety for your family
11. Hoaxes
12. Web browser alternatives
13. Pop-up and ad blockers
14. Security fixes
15. Security resources

**Assignment:**

1. Demonstration of a variety of virus protection techniques
2. Two-page paper discussing virus protection issues
3. One to two quizzes

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written paper

Writing  
10 - 40%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Demonstration of virus protection techniques

Skill Demonstrations  
10 - 40%

**Exams:** All forms of formal testing, other than skill performance exams.

Exams: multiple choice, true false, matching items, completion

Exams  
10 - 40%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and class participation

Other Category  
10 - 25%

### Representative Textbooks and Materials:

Instructor prepared materials