

Cabrillo College
Syllabus: CIS 172 – Section 74350 Spring 2012

Gerlinde Brady Phone:

831-477-5672

Office Hours: see Web at: <http://babyface.cabrillo.edu/salsa/listing.jsp?staffId=156>

Class Meetings: Wednesdays 9:00 am – 1:05 pm Room 2501

E-mail: [gebrady at cabrillo.edu](mailto:gebrady@cabrillo.edu)

Class Web site: <http://www.cabrillo.edu/~gbrady/cis172.htm>

Course Description

CIS 172 surveys computer operating systems such as Microsoft Windows Operating Systems, Unix/Linux, and DOS (command line). Topics include operating system theory, system requirements, file system management, network system integration, security, regular maintenance procedures, and an introduction to emergent technologies, their language and features. It is not possible to cover everything there is to know about operating systems in one course. This course will provide you with the tools to increase your ability to research more topics and increase your knowledge and skills.

Course Format

Class sessions will include instructor-led presentations and discussions, collaborative exercises, interactive group work, reading assignments, research, and hands-on lab exercises.

Course Books

Required: Andrews, Jean (2009). *A+ Guide to managing and maintaining your PC*. (7th ed.). Boston: Thomson Course Technology. ISBN- 9781435497788

Optional for A+ Certification Preparation:

- LabSim A+ Essentials 09 (Exam 220-701). ISBN 978-1-935080-35-0
- Labsim A+ Practical Application 09 (Exam 220-702). ISBN 978-1-935080-36-7

Requirements/Prerequisites

CS1, CS1L or equivalent are prerequisites for CIS 172. Students will need the knowledge and skills from CS 1 to be successful in the class. Please contact the instructor for more information. Some skills and knowledge that will be helpful for success in CIS 172 are:

- Use of an Internet browser to do research on the Internet
- Professional use of E-mail
- Ability to meet deadlines
- Basic written and oral communication skills
- Ability to work in teams
- Basic navigation of the Windows Operating Systems
- File management
- Self management (time management)
- MS Office skills (Word, PowerPoint)

To be successful in the class, you need to be prepared. Complete each week's work and reading assignments ahead of time. You are expected to **attend all class sessions** and

participate actively in collaborative tasks. Work your way through the book chapters. If you feel overwhelmed or fall behind in the class, get help immediately. Help each other. Please talk to me if you need help. If you have to miss class due to illness or other responsibilities, please contact me to make arrangements **prior to your absence**. The amount of time you need to spend outside of class to be successful depends on your previous experience, your work habits, and your learning style. Completing the reading assignments and quizzes before class is extremely important!

Grading Policy

By default, students will receive a letter grade (A – F) in this class. The class may be taken on a Pass/No Pass basis. The equivalent to the letter grades A, B or C will result in a Pass, the equivalent to a D or F will result in a No Pass, so students will need to turn in assignments and take exams. The Pass/No Pass option will not affect the grade point average. It will **NOT** be possible to change from a letter grade to a Pass/No Pass after the deadline. Please refer to the Cabrillo schedule of classes for the deadline date. Final course grades will be calculated according to the following weighting system:

Reading Quizzes	100 points (25%)
Lab Exercises	100 points (25%)
Midterms (multiple choice and hands on)	100 points (25%)
Final Project/Student Presentation	100 points (25%)

Final Grade	
100% – 90%	A
89% – 80%	B
79% – 70%	C
69% - 60%	D
59% and less	F

“Incomplete” Grade Policy

A grade of “I” can only be assigned if **serious extenuating circumstances** prevent you from completing the coursework by the deadlines. To request an “I”, you must have completed 75% of the required course work and you must make this request well in advance of the final day of classes. A grade of “I” is not automatic; it must be arranged by mutual agreement. In general, it should be removed before the start of the following semester. I very strongly discourage students from requesting an “Incomplete” grade.

Student Learning Outcomes

1. Compare and contrast the design of current operating systems with respect to their user interfaces, hardware interfaces and system requirements.
2. Compare and contrast the multitasking, multi-user, and multiprocessing capabilities of each of the major operating systems.
3. Configure an operating system for network connectivity, including DNS, Gateway, IP address configuration.

Hours by Arrangements

The Cabrillo schedule of classes lists online lab times for you to complete your assignments and practice new skills of "+2 hr 5 min per week". You will spend this time using the online class resources (Blackboard, Opus, Forum, online Virtual machines) or the resources in the Network and Systems Technology lab (room 1404). It is the student's responsibility to make use of these available hours every week, and to record attendance by signing in each time they attend the lab. The instructor will collect these hours periodically. Time spent on Blackboard, Opus, Forum, and the online Virtual machines will be logged automatically. During these hours, you will be working mainly on the hands-on assignments for the class, which make up 25% of your grade. Arranged hours are class time and all students are expected to meet this number of hours per week to fulfill the requirements of this course. If you need help with any of these assignments, you can contact me any time.

Attendance

Students are expected to attend all classes. Students who are absent because of illness should personally contact their instructors. Illness-related absences do not relieve students from the responsibility of making up any work missed. It is the responsibility of the student to obtain information concerning missed work and to see that it is completed and turned in.

Excessive Absence

Class hours of absence are considered excessive when they total more than the number of hours a full-term class meets during each week of a 16-week semester. This applies proportionately to short-term day, evening, summer, winter session, and weekend classes. For example, if a student is absent for more than three hours in a summer class that, when scheduled as a full-term class during a fall or spring semester meets for three hours per week, the student's absence can be considered excessive, irrespective of the number of class meetings missed.

Excessive absence from class as defined in the above paragraph will constitute reason for an instructor to drop a student from that class. However, it is the student's responsibility to officially withdraw from classes by published deadlines to avoid failing grades.

(From: Cabrillo College Catalog–2010-2011)

If you need to be absent from class please notify me prior to your absence. **If you miss more than two classes, I might drop you from the course.**

Late Assignments

There will be a number of hands-on lab exercises to help you practice new skills and deepen your understanding of the material. You are responsible for getting all assignments from the class website at <http://www.cabrillo.edu/~gbrady> or on Blackboard. Paper copies will not be handed out.

Late assignments can only be accepted due to illness, family emergency, or other legitimate reasons beyond your control. Assignments that are turned in late will receive a 10% point deduction for each day the assignment is overdue, unless you negotiated an extension **in advance**. Assignments submitted more than 7 days late **cannot** be accepted and receive a score of zero points. There will be some extra credit assignments.

Classroom Etiquette/Housekeeping

- Cell phones need to be turned off or set to vibrate mode during class.
- Texting and surfing the Web during class time are not acceptable.
- Please show courtesy to the class by restricting conversation to in-class topics.
- Practice listening when the instructor or other students address the class.
- The computers/monitors in the classroom will remain powered down during lecture time unless otherwise specified.
- Please do not download anything unless asked to do so by your instructor.

Passwords

You will have to keep track of a number of passwords. Please record them in the table below, so that you will be able to refer to your records when you need to use your password and cannot remember it. **NOTE:** In the "real world" you would not write down your password, because that would be a security violation.

Site	Username	Password
CTC (1400 building)/ Blackboard		
FTP Server		
Linux Account (opus.cabrillo.edu)		
Forum		
Other		

The Blackboard account is needed for online quizzes, the midterm, and homework assignments as well.

The FTP Server will be accessible from off-campus. This is the server we might use will use for file transfers at the end of the semester.

Drop

If you need to drop the class, it is your responsibility to take the required steps. Please do not assume that I will automatically drop you, if you stop coming to class. If a class is not dropped properly, you might receive an "F" on your transcript.

Special Needs

I encourage students with disabilities, including "invisible" disabilities such as chronic diseases, learning, and psychological disabilities, to explain their needs and appropriate accommodations to me during my office hour. Please bring a verification of your disability from the Learning Skills or DSP&S offices and a counselor or specialist's recommendations for accommodating your needs.

Students needing ***accommodations*** should contact the instructor ASAP. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal opportunity for students with verified disabilities. If you need assistance with an accommodation, please contact Disabled Student services, Room 810, 479-6379, or Learning Skills Program Room 1073, 479-6220 to make arrangements as soon as possible.

CIS 172 Section 72331 Introduction to Operating Systems - TBA Assignments

TBA (To Be Arranged) Requirement: 2 hours, 5 minutes online per week – Assignments are collected electronically in Blackboard. Assignments are completed Networking and System Administration Lab or remotely using virtual machines. These hours are required, tracked, and the assignments are graded. The TBA requirement is 25% of your final grade for this course. You can contact me through email or through the class forum to get questions answered and receive some hint and help. I usually answer emails on the same day I receive them.

Week	TBA Assignment
Week 1	Chapter 2: Collect system information, compare and contrast two different software utilities.
Week 2	Command Line Interface (CLI) lab:
Week 3	Chapter 12: Operating System Installation; Virtual Machine creation
Week 4	Chapter 13: Configure Startup programs, virtual file settings, plan and implement backup procedures. Manage files and folder from the command line. Manage hard drives and volumes
Week 5	Chapter 14: Optimizing Windows. Using the system configuration utility and services console. Use Microsoft Management Console (mmc). Use Event Viewer to troubleshoot.
Week 6	UNIX/Linux: Use the command line to manage files and directories.
Week 7	Chapter 15: Use tools for solving Windows problems and startup problems.
Week 8	Use the registry editor to backup, change, and restore registry keys.
Week 9	Chapter 16: Fixing Windows hardware and software problems. Practice the troubleshooting process. Operating system

	reinstallation.
Week 10	Virtualization: Configure virtual machines through remote desktop access.
Week 11	Chapter 17 & 18: Use network configuration and troubleshooting tools to configure PC to operate on a network.
Week 12	Chapter 19: Configure basic security settings, design a basic security policy.
Week 13	Internet research on special topics.
Week 14	Chapter 20: Controlling remote access to computer resources.
Week 15	Research/Troubleshooting project.
Week 16 Finals	Final Project presentations.