

Cabrillo College
Syllabus: CIS 140 – Spring 2009

Gerlinde Brady Phone: 831-477-5672
Class Meetings: Monday 5:30 pm – 8:30 pm **Office: Room 2552**
Office Hours: 4:35 -5:30 (room 2552); see my Web site for additional hours
E-mail: gebrady at cabrillo.edu **Web: <http://www.cabrillo.edu/~gbrady>**

Course Description

This course covers the design, planning, implementing, operating and troubleshooting of Wireless LANs, including setup, 802.11(a, b, g, n) technologies, radio technologies, WLAN applications, WLAN security, vendor interoperability strategy and emerging wireless technologies.

Course Format

Class sessions will include instructor-led presentations and discussions, collaborative exercises, student research, interactive group work, and extensive hands-on lab exercises. Classes are from 5:30 pm – 8:30 pm. The class schedule lists 3 hours and 10 minutes of open lab time per week. This time is for you to practice new skills. These hours will be arranged during the first class meeting.

Course Book

Required Book:

CWNA Guide to Wireless LANs, 2nd Edition

Author: Mark Ciampa - Western Kentucky University

ISBN-10: 0619215798 ISBN-13: 9780619215798

Available at: [Course Technology](#)

Optional Book:

CCNA Wireless Official Exam Certification Guide (CCNA IUWNE 640-721)

Author: Brandon James Carroll, CCNA, CCNP, CCSP

ISBN ISBN-10: 1-58720-211-5; ISBN-13: 978-1-58720-211-7; Published: Oct 23,

2008; Copyright 2009; Dimensions 7-3/8 X 9-1/8; Pages: 504; Edition: 1st.

Available at: Cabrillo College bookstore and [Ciscopress](#)

Requirements/Prerequisites

CIS 81 is a prerequisite course for CIS 140. Students will need the knowledge and skills from CIS 81 to be successful in the class. Some of the knowledge and skills you need are:

- internet research skills
- file management
- use of command line interface
- knowledge of TCP/IP protocols and their functions
- knowledge of IPv4 addressing
- TCP/IP basics (OSI model)

To be successful in the class, you need to be prepared. Complete each week's work and reading assignments ahead of time. There are weekly reading quizzes that are due BEFORE class. You are expected to attend all class sessions and participate actively in collaborative tasks. Work your way through the assigned readings. Do as many of the lab assignments as you need to do to feel comfortable with the material. If you feel overwhelmed or fall behind in the class, get help immediately. Many students benefit from individual tutors. See the Tutorial Center for information regarding tutors. Study in groups. 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 ahead of time to make arrangements. 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.

Hours by Arrangements

The Cabrillo schedule of classes lists open lab times (TBA hours) for you to complete assignments and practice new skills of "+3 hr 10 min open lab per week". These open lab hours are at times of your choosing in the networking lab (room 2504). The networking lab is open as shown here: [Networking/CIS Lab hours](#). It is the student's responsibility to make use of these available hours every week. The required course text book contains many chapter labs that will help you practice new skills and deepen your understanding of the material. By completing these hands-on activities you will learn to:

- Install, configure and manage WLAN client devices
- Install, configure and manage WLAN infrastructure devices
- Explain wireless concepts
- Compare and contrast WLAN standards
- Implement WLAN security
- Identify the equipment needed to perform a site survey

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. 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:

Assignments	Points
End-of chapter quizzes	100

Hands-on labs	100
Midterm	50
Final	50
Project	50

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

- Analyze and compare wireless radio technologies and topologies.
- Investigate and assess wireless security threats and vulnerabilities.
- Compare and contrast wireless security using MAC filtering, WEP, LEAP, EAP, WPA, and 802.1x.
- Analyze IEEE 802.11 wireless standards.
- Configure infrastructure devices through the command line and the graphical user interface
- Prepare network documentation

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 Web site at <http://www.cabrillo.edu/~gbrady>. You might want to print assignments out before coming to class when applicable. 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 will receive half credit.

There will also be weekly reading quizzes that are due BEFORE class. Those have to be completed by the deadline and cannot be turned in late.

Classroom Etiquette/Housekeeping

- Pagers and cell phones need to be turned off or set to vibrate mode during class.
- Please show courtesy to the class by restricting conversation to in-class topics.
- The computers 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.
- Bluetooth headsets: Do you really need it in class????

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. In the "real world" you would not write down your password, because it is not secure. You might not use all the accounts listed below.

Site	Username	Password
CTC (1400 building)/Campus		
Blackboard		
Cabrillo College Netacad Server		
NetLab		
Cisco Community Server		

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.

As required by the Americans with Disabilities Act (ADA) accommodations are provided to ensure equal opportunity for students with verified disabilities. If you have a disability that requires accommodations for this class, please contact the Learning Skills Program at 479- 6220 (for students with learning disabilities and attention deficit disorders) or Disabled Student Services & Programs (DSP&S): 479-6379 to make arrangements as soon as possible.