



# ITNW1351 – Fundamentals of Wireless LANs

## Course Syllabus: Fall 2017

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	8:00 am – 5:00 pm	8:00 am – 5:00 pm	8:00 am – 5:00 pm	8:00 am – 5:00 pm	8:00 am – 5:00 pm	

*The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.*

### Catalog Course Description (include prerequisites):

Designing, planning, implementing, operating, and troubleshooting wireless LANs (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies.

### Required Textbook(s):

Mark Ciampa, *CWNA Guide to Wireless LANs*, Third Edition. Course Technology Incorporated, 2012, ISBN: 1133132170; ISBN-13: 978-1133132172

### Student Learning Outcomes:

- Students will demonstrate an ability to explain wireless technologies, topographies, and standards.
- Students will demonstrate an ability to design, install, configure, monitor, maintain, and troubleshoot wireless networks.
- Students will demonstrate an ability to implement wireless security using encryption, MAC filtering, Authentication, Authorization, and 802.1x technologies.

### SCANS Skills:

The following is a summary of the Scans Competencies attributable to this course with the following scale:

- 1 – Concept
- 2 – Application
- 3 – Advanced

Competencies not covered by this course are not listed.

C1	Time: Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.	2
C5	Acquires and evaluates information.	1
C6	Organizes and maintains information.	1
C7	Interprets and communicates information.	1
C8	Uses computers to process information.	2

C15	Understands Systems: Knows how social, organizational, and technological systems work and operates effectively with them.	2
C16	Monitors and Corrects Performance: Distinguishes trends, predicts impacts on system operations, diagnoses systems performance, and corrects malfunctions.	2
C18	Selects Technology: Chooses procedures, tools, or equipment, including computers and related technologies.	2
C19	Applies Technology to Task: Understands overall intent and proper procedures for setup and operation of equipment.	2
F1	Reading: Locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.	2
F3	Arithmetic: Performs basic computations; uses basic numerical concepts such as whole numbers, etc.	2
F4	Mathematics: Approaches practical problems by choosing appropriately from a variety of mathematical techniques.	1
F5	Listening: Receives, attends to, interprets, and responds to verbal messages and other cues.	1
F8	Decision Making: Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.	1
F9	Problem Solving: Recognizes problems and devises and implements plan of action.	2
F10	Seeing Things in the Mind's Eye: Organizes and processes symbols, pictures, graphs, objects, and other information.	2
F11	Knowing How to Learn: Uses efficient learning techniques to acquire and apply new knowledge and skills.	2
F12	Reasoning: Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.	2
F13	Responsibility: Exerts a high level of effort and perseveres towards goal attainment.	2

### Evaluation/Grading Policy:

Assignments.....	25%
Chapter Review Tests.....	25%
Mid-Term Exam.....	25%
Final Exam.....	25%

### Tests/Exams:

#### Chapter Tests

There will be a Practice and Review Test for each chapter in Blackboard. The Practice Test is available for chapter review purposes and is not required. The Review Test is a graded assessment and should be completed. Students are allowed two attempts for each Review Test and the best grade will be counted in the grade book. These tests will be available from the day when the chapter becomes available until the following Sunday at 11:59 PM.

#### Exams

There will be a mid-term and final exam for this course. These are major exams that count 50% of the total grade in the course.

**Assignments:**

There will be Hands-On Projects in Blackboard for each chapter that students will be expected to complete and submit online. Each chapter's assignments will be due on Sunday by 11:59 PM one week after the chapter becomes available.

**Resources:**

Resources for this course such as presentations, additional chapter notes, chapter quizzes and test reviews can be accessed through Blackboard. To access Blackboard, you need to login to the MyEagle portal with your NTCC username, first name initial + last name + last 3 of SSN, and your password which is your date of birth, mmddyyyy. The presentations, class syllabus and exam reviews are available in Adobe PDF format. If you do not have Adobe Reader, it may be downloaded free from <http://www.adobe.com>.

**NTCC Academic Honesty Statement:**

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

**Academic Ethics**

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

**ADA Statement:**

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website - Special Populations](#).

**Family Educational Rights And Privacy Act (FERPA):**

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other

information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.