

# CNT3004-20Fall 0001

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## **CNT 3004 – Computer Network Concepts**

**Fall 2020**

**Instructor:** Dr. Craig Tidwell, [ctidwell@ucf.edu](mailto:ctidwell@ucf.edu) (<mailto:ctidwell@ucf.edu>)

**Instructor:** Dr. C. Tidwell

- PhD Modeling and Simulation (Cyber Security) - UCF
- MS Management Information Systems - UCF
- MS Business - University of North Carolina
- BS Business/MIS Concentration - California State University East Bay
- IT Certifications: Master Certified Network Engineer, Certified Network Engineer, Certified Network Instructor, Microsoft Certified Professional, and more.

**Email:** [ctidwell@ucf.edu](mailto:ctidwell@ucf.edu)

**Office:** No On-campus Office

**Course Time:** TuTh 10:30AM – 11:45AM, via Zoom

### **Catalog Course Description**

Network media, protocol, current and evolving standards for local, metropolitan, wide area and wireless networks.

**NOTE: This is a Zoom class, that will be held on Tuesday and Thursday from 10:30-11:45AM. Tuesdays are lectures, Thursdays are question/answer sessions. The ZOOM link is posted under Announcements. All exams and homework assignments, etc. will be submitted online in Webcourses.**

**Topic:** CNT3004 - First Day of Class

**Time:** Aug 25, 2020 10:30 AM Eastern Time (US and Canada)

**Every week on Tue, until Dec 1, 2020, 15 occurrence(s)**

**Join Zoom Meeting**

<https://ucf.zoom.us/j/92970454210?pwd=RUICam40dVJMYStraFRubINRQitXQT09>

<https://ucf.zoom.us/j/92970454210?pwd=RUICam40dVJMYStraFRubINRQitXQT09>

**Meeting ID: 929 7045 4210**

**Passcode: 284265**

## **Objectives**

The objectives of this course are to introduce the fundamental concepts, structure and components of computer networking, to overview selected protocols associated with the Application, Transport, Network, Link, and Physical Layers of the OSI Reference Model and to show how these protocols are organized to produce computer networks.

## **The tentative grading policy is:**

<u>Coursework</u>	<u>Approximate%</u>
1. Homework Assignments	(30%) - 300 pts (6 total)
2. Discussion Postings	( 8%) - 80 pts (10 total)
3. Quizzes	(12%)- 120 pts (6 total)
4. Midterm Exam	(20%) - 200 pts
5. Final Exam (comprehensive)	(30%) - 300 pts

The final grade will use +/- policy, i.e., you may get A, A-, B+, B, B- ... grade.

## **Grading Scale:**

- A 1000-939 points
- A- 938-895 points
- B+ 894-869 points
- B 865-829 points
- B- 828-795 points
- C+ 794-769 points
- C 768-729 points
- C- 728-695 points
- D+ 694-669 points
- D 668-629 points
- D- 628-595 points
- F 594-0 points

## **Prerequisites:**

- Prerequisite(s): [PHY 2053C](https://catalog.ucf.edu/preview_course_nopop.php?catoid=3&coid=8668) [\\_ \(https://catalog.ucf.edu/preview\\_course\\_nopop.php?catoid=3&coid=8668\)](https://catalog.ucf.edu/preview_course_nopop.php?catoid=3&coid=8668) with a grade of "C" (2.0) or better and, Corequisite(s): [CIS 3990](https://catalog.ucf.edu/preview_course_nopop.php?catoid=3&coid=6592) [\\_ \(https://catalog.ucf.edu/preview\\_course\\_nopop.php?catoid=3&coid=6592\)](https://catalog.ucf.edu/preview_course_nopop.php?catoid=3&coid=6592).




## **Course Materials:**


- **Textbook:** A. Forouzan, *Data Communications and Networking*, 5<sup>th</sup> Edition, McGraw-Hill, 2012.  
**ISBN-13:** 978-0073376226
- **Class Notes:** Class notes (in PowerPoint slides) will be posted in Webcourses.

### Chapters in the textbook covered in CNT 3004

Chapter 1	Introduction to Networking
Chapter 2	Network Models
Chapter 3	Physical Layer
Chapter 7	Transmission Media
Chapter 9	Data-Link Layer
Chapter 10	Error Detection and Correction
Chapter 11	Data Link Control
Chapter 15	Wireless LANs
Chapter 17	Connecting LANs, Backbone Networks, and Virtual LANs
Chapter 19	Network Layer Protocols
Chapter 23	Transport Layer
Chapter 25	Application Layer
Chapter 26	Client Server Protocols
Chapter 31	Network Security

## Course Summary:

Date	Details
Mon Aug 31, 2020	 <a href="https://webcourses.ucf.edu/courses/1359926/assignments/6761359">Class Introduction Quiz</a> <a href="https://webcourses.ucf.edu/courses/1359926/assignments/6761359">(https://webcourses.ucf.edu/courses/1359926/assignments/6761359)</a>
	due by 11:59pm
	 <a href="#">WELCOME TO CNT3004</a>
	to do: 11:59pm
Mon Sep 7, 2020	 <a href="https://webcourses.ucf.edu/courses/1359926/assignments/6792127">Discussion 1 - Top 5 Trends in Networking for 2020</a> <a href="https://webcourses.ucf.edu/courses/1359926/assignments/6792127">(https://webcourses.ucf.edu/courses/1359926/assignments/6792127)</a>
	due by 11:59pm

Date	Details
Mon Sep 14, 2020	 <a href="https://webcourses.ucf.edu/courses/1359926/assignments/6792130">Assignment 1</a> ( <a href="https://webcourses.ucf.edu/courses/1359926/assignments/6792130">https://webcourses.ucf.edu/courses/1359926/assignments/6792130</a> ) due by 11:59pm