FRANKLIN UNIVERSITY

COMP204 - Principle of Computer Networks
Location: USA
Frequency: Any
Instruction: Franklin
Format: Online
Length: 6-Week
Edition: working

Object: Course Information

Course Information

Student Content

Course Description

This course serves as an introduction to the function, design, administration, and implementation of computer networks. Topics include network infrastructure, architecture, protocols, applications, and the OSI networking model.

Prerequisites

- COMP 101: Problem Solving with Computing, OR
- COMP 111: Introduction to Computer Science and Object Oriented Programming, OR
- ITEC 136: Business Programming Concepts, OR
- Any structured programming course.
- Certification: Credit is granted for this course if the student holds CompTIA Network+ Certification.

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Diagram an end-to-end network communication path, describing each intermediate step.
2. Design a small-scale network configuration, including addressing, routing, and switching.
3. Describe the functions of the TCP/IP and Ethernet protocols including select fields, flags, options, headers, and trailers for both.
4. Distinguish between types of data elements (segments, packets, frames, and bits).
5. Map the key elements of the TCP/IP protocol suite to the OSI model.

Course Requirements

Assignments	Expected Performance	Total Points
Homework (5 at 60 points each)	225	300
Lab 1	37 - 38	50
Lab 2	60	80
Lab 3	75	100
Lab 4	75	100

Reflection Paper	52 - 53	70
Final Exam	225	300
Total Points	**750**	**1000**

Lead Faculty Information

The Lead Faculty for COMP 204 is [Kemal Aydin, Ph.D](#).

The role of the Lead Faculty is to ensure quality of the course following the design by mentoring and monitoring faculty delivering the course and planning delivery of the course, which includes scheduling and staffing the course. The Lead Faculty will also have responsibility for planning the redesign of the course.

When should the Lead Faculty be contacted?

Students enrolled in BLF courses should first discuss any course concerns with the instructor. If the student is unable to resolve the issues then the student should contact the Lead Faculty for that class. In addition if students want to give feedback about a particular course or if there are problems involving the student manual, or instructor issues the student should contact the Lead Faculty.

Object: Course Materials

Course Materials

Student Content

Required Text

- Dye, M., McDonald, R., & Rufi, A. (2012). *Network fundamentals, CCNA exploration companion guide*. (1st ed.). Indianapolis, IN: Cisco Press. ISBN: 9781587133480 (print), 9780132877435 (e-text)

Obtaining Course Materials: A digital copy of the textbook (e-textbook) for this course is accessible via VitalSource, an online platform for digital instructional materials. Clicking on any link to the book from within the course will direct you to an object from which a digital copy of the textbook can be opened in a new browser tab.

Your Franklin account was charged for these embedded materials at the time of registration. For a seamless learning experience, it is strongly recommended that you utilize the materials embedded within your course. To opt out of using these materials, access the Shortcuts menu at the top of the screen. Select the " E-Textbook Opt Out" link and follow the instructions. If you elect to opt out of using these materials, visit http://www.franklin.edu/financial-aid/tuition-fees/e-textbooks (or refer to the ISBN listed above) to help you find and purchase the course materials on your own.

Required Software

- Microsoft Visio® will be used for this course. The software is available free to Franklin Students through the [Microsoft Academic Alliance](#). To obtain your software, log in to the site using your Franklin University username and password and follow the directions to download and install it on your computer.
- Cisco® Stencils will be used for this course and are available for download at [Products & Services](#)

Object: Accessing E-Textbooks

Accessing E-Textbooks

Student Content

To access the text(s) for this course, click on any link to the e-textbook(s) within the course (or directly select the e-textbook object(s) located within the Syllabus container), and then click the **Open** button. It is highly recommended that you then download the e-textbook(s) to your device(s) for offline use.

Note: The e-textbook object(s) are titled using APA style, as follows: Author's last name (copyright year).

Object: Dye et al. (2012)

Dye et al. (2012)

Student Content

Click the **Open** button above to access a digital version of your textbook (eTextbook).

Integrate

Activated

LTI

Activated

Object: Policies and Services

Policies and Services

Student Content

Academic Policies

Please follow the links below to find the academic policies that apply to taking courses at Franklin University:

- Academic Assessment
- Academic Integrity and Dishonesty
- Process for Student Concerns
- Academic Program Requirements

Student Responsibilities

Please follow the links below to understand what your responsibilities are with regard to taking courses at Franklin University:

- Communications
- Time Commitment
- Attendance Policy
- Virus Policy
- General Technology Requirements
- Student Code of Conduct
- Copyright - Materials used in Franklin University courses may be subject to copyright protection. For more information about copyright law, view the following resources:
    - Franklin University Library's copyright research guide
    - Franklin University's Plan to Effectively Combat Copyright Infringement

Student Support Services

Please follow the links below to learn about the support services available to you at Franklin University:

- Learning Commons in the Academic Bulletin and on the Franklin University website
    - Library Services in the Academic Bulletin and on the Franklin University website
    - Testing Center in the Academic Bulletin and on the Franklin University website
- Disability Services in the Academic Bulletin and on the Franklin University website
- Harassment, Discrimination, and Sexual Misconduct (Anti-Discrimination Policy)
- Family Education Rights and Privacy Act (FERPA) Information
- BlueQuill Zendesk, which you can also access using the Help icon at the top right of your screen
- Technology Help Desk Services in the Academic Bulletin and on the Franklin University website

Grading Policy

Please follow the links below to learn about the grading policies for students at Franklin University:

- Undergraduate Grading Policies
- Graduate Grading Policies
- Submission and Return Policy