SYLLABUS
MARIETTA CAMPUS
COLLEGE OF COMPUTING AND SOFTWARE ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
IT 4323: DATA COMMUNICATION & NETWORKING
SPRING 2022

Course Information

Modality: This class is designed for online, hybrid, and face-to-face delivery

Class meeting time:

Type	Time	Days	Where	Date Range	Schedule Type	Instructors
Hybrid	2pm	Tu	215-B	Jan 10, 2022 - May 02, 2022	Lecture	Donald Privitera

Syllabus is posted in D2L

Instructor

Name: Mr. Donald (Don) Privitera
E-mail: dprivit2@kennesaw.edu
Office Location: Norton Hall R2-332
Cell Phone: 770-899-1728 (for urgent matters text or call 9am – 6pm Mon-Fri only)
Office Hours: 2:30pm-4:30pm Thu; Virtual office hours by appointment 4pm-6pm Mon, Tue, Wed, Fri (Teams, Zoom, or phone)

Course Communication:
- Email is the best way to reach the instructor. **Use D2L email if possible.** Instructor's KSU email (dprivit2@kennesaw.edu) should only be used when you don't have access to D2L site.
- Students' emails will be replied WITHIN 24 hours weekdays (weekend and holidays don't apply).
- When emailing the instructor using accounts other than D2L email, put the course number and CRN in the subject line as I teach many classes. Emails without proper subject line will not be replied.
- Avoid using personal email. Sensitive information (such as your grades) can ONLY be sent via D2L email or KSU email account.

Course Description

Prerequisites/Corequisites:
Credit Hours: 3 hours credit

Required Text (free): *An Introduction to Computer Networks*, Peter L Dordal, version 2.0.4, http://intronetworks.cs.luc.edu/current2/html/index.html.

Supplemental Text (optional): *Data Communications and Networking, Forouzan, 5th edition.*

Course Description:
This course provides fundamental concepts of computer networking. Topics include properties of signals and media, information encoding, error detection and recovery, LANs, backbones, WANs, network topologies, routing, protocols, and security issues. The focus is on general concepts together with their application to support the business enterprise.

Technology Requirements:

- For this class, you will be required to complete labs using Wireshark (https://www.wireshark.org/).
- Ability to stream video lectures on the days you are not in class.
- This class uses D2L as a hosting site. Run a system check to ensure your computer work with D2L. Check out UITS D2L training: http://uits.kennesaw.edu/support/d2ltraining.php .
- Internet Connection. A high-speed Internet connection such as DSL or cable Internet access is highly recommended. You may also use computer labs on campus to complete the coursework.
- A web camera may be required to take tests.
- Computer – You will need to have access to a computer running MS Windows 7 (or later) or Linux and a high-speed Internet connection. You will need at least 20 GB of storage capacity and 4 GB of RAM to install and run the tools we will be using in the course.
- You will also be required to install a VM to use Wireshark. The VM can either be Virtual Box (if you use MAC) or VMWare. Another option is to use the CCSE VM online, and it is installation-free service. The CCSE VM instruction is here.
- The supplemental textbook is EXCELLENT and should be strongly considered if you intend to pursue a career in networking technology.

Student Learning Outcomes

By the end of this course, a student should be able to:
1. Describe the architecture of major kinds of data networks and differentiate network media and devices.
2. Describe major addressing and routing concepts.
3. Apply industry standard practices in the design of an Ethernet/IP network
4. Define and describe the Ethernet/IP stack layers and associated common protocols.

Course Requirements and Assignment

This course will be organized as weekly units. Each week starts on Monday and ends on Sunday. All homework, quizzes, and lab assignments belonging to a particular weekly unit are typically due on Sunday of that week before 11:30pm. Start your assignments early because there could be many possible things including system availability that could delay your ability to complete them. Running out of time is not a valid excuse. Do not wait until the weekend to start your assignments.

Course Information:
The textbook, D2L content, links, lecture, and other supplemental material will be the basis for all test taking and assignments. There will be no additional final exam.

During each week, you should:
(1) Review all course announcements several times a week;
(2) Read all materials for the module;
(3) Complete all assignments and submit them before the noted due date and time in D2L.

Course Schedule
Please take a look at the Living Schedule listed in D2L. This will be our road map for the course and will show what topics will be covered and when. It will also list important dates such as: Assignment due dates, exam dates, and scheduled university closures.

Exams
There will be 2 exams. Each one may be comprehensive and may include material covered in the previous exam(s). Each exam will be administered through D2L.

Labs
For labs you will be required to install and use Wireshark to analyze real-world network data**.**

For labs, you will generate one lab report for each lab containing all screenshots and your answers to questions. Please repeat the questions in the lab. Use a Word format file formatted in landscape format with only 1 screenshot per page. Please use a header and footer (lookup how to do this in Word). For the header use the following information:

```
Course: IT4323/Section XXX/CRN: xxxxx
Student Name: Pat Doe
Assignment Number: Lab#
Due Date: xx/xx/2022
```

For the footer, please put < page n of y pages >. Again, see MS Word help for how to do this.

To be clear, do not include screenshots as separate files. Make one complete lab report per lab.

Generating professional looking reports are a routine part of an IT practitioner's responsibilities. Points will be deducted for lab reports that do not include all these report criteria or otherwise are formatted in a less than professional manner.

File Formats
When submitting files to D2L, please use only .docx, .doc, or .pdf in order to ensure I can view your work. Any assignments submitted in a format I cannot open, will not be accepted and a grade of

zero will be earned. Turning in incorrect assignments will not be accepted and a grade of zero will be earned.

Evaluation and Grading Policies

Grade Items and Weight Distribution

Grading Item	Weight
6 Discussions	10%
6 Labs	30%
13 Quizzes	30%
2 Exams	30%
Total	**100%**

Grading Scale:
90% - 100% A
80% - 89% B
70% - 79% C
60% - 69% D
0% - 59% F

Grades will be rounded up if they are > or = .5 or above, for example, an 89.50 is an A, but 89.49 is a B. This professor may make an extra credit assignment available and due by certain dates; do it if you want to have a chance to earn extra points. Do not miss getting work turned in. Zero's are very damaging to a course grade point average.

Course Policies

Course Attendance Policy
- For on campus/hybrid section, students are expected to come to each class on time and stay during the whole class period.
- For both campus/hybrid and online section, students' attendance is also measured by how often a student login in D2L course website, participation in online discussion, as well as on-time completion of work.

Grading Items Turnaround Time
- Grades will be available no later than 10 business days after the due date.

Assignments & Exam Policy

- All assignments **MUST** be submitted through the D2L (https://kennesaw.view.usg.edu/) course website in the proper assignment location by the deadline specified in course calendar. Email submission will **NOT** be accepted. Any assignment that is late or is turned into the wrong place will **NOT** be accepted. Assignments not accepted will be graded as zero.
- All work MUST be completed on D2L website within the specified time frames and before the deadline specified in course calendar. All work can only be opened/submitted between the start and due dates.

- If you must miss an exam due to illness, you must e-mail or call the instructor **before** the scheduled time. Failure to notify the instructor prior to the scheduled time will produce an automatic zero for the assignment/exam. NO makeup tests will be allowed except for verifiable emergencies with proof (e.g. doctor's slip).

Proctored Exam

Respondus Lockdown Browser + Web Camera may be used for the exams. LockedDown Web Browser Student Guide: https://apps.kennesaw.edu/files/pr_app_uni_cdoc/doc/Respondus-LockDown-Browser_StudentGuide.pdf

Please contact the instructor if you have any questions.

Student Responsibility

For this class, you are expected to spend seven to eight hours each week on coursework:
- Check KSU and D2L email frequently;
- Login D2L course website frequently to access the course material (at least every other day);
- Follow the weekly study guide in the learning module;
- Study the assigned material such as virtual lectures, textbook chapters and the PowerPoint slides;
- Complete assigned quiz/assignment/discussion/project on time.

Tips for Effective Online Learning

For an online class, students can really enjoy the benefits of learning at you own pace and at the place of your choice. Below are some tips for effective online learning.
- *Check D2L course website frequently*. It's recommended that students should login D2L course site **AT LEAST** every other day (daily is recommended). Always be aware of current status of the course and course announcements. Take advantage of the posted learning material such as text, recorded lectures, videos, etcetera.
- *Work with the instructor closely*. If you have any question, contact the instructor immediately. You can either email (preferred), text, or call me.
- *Start your work early*. If you can start a task early, don't start late. Assuming you spend the same amount of time completing the task, starting later will be much more stressful than starting early. Never start until the last minute! You'll have no turnaround time if you need help or if something unexpected happens.
- *Keep up with the work*. Don't fall behind. If you do, contact the instructor immediately for what you need to do. The instructor may also contact you if he is concerned. Respond to the instructor's inquiry promptly.

Class Communication Rules

In any classroom setting there are communication rules in place that encourage students to respect others and their opinions. In an online environment, the do's and don'ts of online communication are referred to as **Netiquette**. As a student in my course you should:
- Be sensitive and reflective to what others are saying.
- **Avoid typing in all capitals** because it is difficult to read and is considered the electronic version of 'shouting'.
- Don't flame - These are outbursts of extreme emotion or opinion.
- Think before you hit the post (enter/reply) button. You can't take it back! Don't use offensive language.
- Use clear subject lines.
- Don't use abbreviations or acronyms unless the entire class knows them. Be

forgiving. Anyone can make a mistake.
- Keep the dialog collegial and professional, humor is difficult to convey in an online environment.
- Always **assume good intent** and **respond accordingly**. If you are unsure of or annoyed by a message, wait 24 hours before responding.

Course Schedule

The course schedule is tentative and is subject to change. Dates and assignment changes may be posted in class announcements, the living schedule, and/or in D2L assignments directly. Please be vigilant to keep aware of due dates.

Please look at the Living Schedule often as listed in D2L in the same module as this syllabus. This will be our road map for the course and will show what topics will be covered and when. It will also list important dates such as: Assignment due dates, exam dates, and scheduled university closures.

The general KSU academic calendar can be found at: https://registrar.kennesaw.edu/academic-calendars/index.php]

Important dates for Spring Semester 2022:
- Drop-Add ends: January 14 @ 11:45pm
- Last Day to Withdraw Without Academic Penalty: March 15 @ 11:45pm
- Last Day to Withdraw for the Term With a WF: April 25.
- Last Day of Class: Tuesday April 26.

Institutional Policies

- Federal, BOR, & KSU Course Syllabus Policies
- Academic Integrity Statement
  - Examples of violations of academic integrity include, but are not limited to, 1) copying from others or from Internet; 2) allowing others to copy your work; 3) using other's help or helping others in completing the tests; 4) plagiarism.
  - The first violation of academic integrity, the student will immediately receive 0 for the associated grading item. For the 2nd violation, the student will receive a fail grade for this course.

KSU Statements on Course Delivery and COVID-19

Course Delivery
KSU may shift the method of course delivery at any time during the semester in compliance with University System of Georgia health and safety guidelines. In this case, alternate teaching modalities that may be adopted include hyflex, hybrid, synchronous online, or asynchronous online instruction.

COVID-19 illness
If you are feeling ill, please stay home and contact your health professional. In addition, please email your instructor to say you are missing class due to illness. Signs of COVID-19 illness include, but are not limited to, the following:
- Cough

- Fever of 100.4 or higher
- Runny nose or new sinus congestion
- Shortness of breath or difficulty breathing
- Chills
- Sore Throat
- New loss of taste and/or smell

COVID-19 vaccines are a critical tool in "Protecting the Nest." If you have not already, you are strongly encouraged to get vaccinated immediately to advance the health and safety of our campus community. As an enrolled KSU student, you are eligible to receive the vaccine on campus. Please call (470) 578-6644 to schedule your vaccination appointment or you may walk into one of our student health clinics.

For more information regarding COVID-19 (including testing, vaccines, extended illness procedures and accommodations), see KSU's official [Covid-19 website](#).

Face Coverings

Based on guidance from the University System of Georgia (USG), all vaccinated and unvaccinated individuals are encouraged to wear a face covering while inside campus facilities. Unvaccinated individuals are also strongly encouraged to continue to socially distance while inside campus facilities, when possible.

Student Resources

This link contains information on help and resources available to students: [KSU Student Resources for Course Syllabus](#)