IT2400 Syllabus: Introduction to Networking

Fall 2020 Syllabus

This is an introductory networking course for students in Computer Information Systems or in Computer and Information Technologies programs, or students having general interest in computer networking.

- Covid-19 Related Restrictions will be in place for this class. See below for further information on how the classroom attendance will be spaced and allocated.

**Prerequisites:** IT1100 should be taken prior to enrolling in this course (and completed with a passing grade)

**Course fee:** $20, used to assist in maintaining CIT infrastructure.

**Sections:**
- IT2400-01 MWF 11:00am-11:50pm Smith Computer Ctr 107
- IT2400-02 TTh 12:00pm-1:15pm Smith Computer Ctr 107

Final exams:
- IT2400-01 Monday April 27 @ 11am
- IT2400-02 Thursday April 30 @ 9am

**Instructor:**
- Jay Sneddon
- Office: Burns 235
- Office hours: MWF 10am-9:50am, TR 11am-11:50am

**Objectives**

At the end of the course, students will:

- Be able to design, connect and implement a computer network, including subnets.
- Be able to define and use several different Internet protocols.
- Be able to describe the TCP/IP and OSI protocol stacks and what happens at each layer.
- Be able to use basic networking tools to troubleshoot basic network problems.
- Understand the differences between setting up wired and wireless networks.
- Implement routing protocols for interconnecting LANs and WANs.

**Resources**

**REQUIRED Text**

The readings will come from the course textbook, *Managing and Troubleshooting Networks, 5th Edition Exam N10-007* by Mike Meyers, ISBN 978-1260128505. Some supplemental online resources may be used such as Professor Messer.

**Cisco Packet Tracer** is software used throughout the semester. Students will need to register with Cisco's Networking Academy to be able to use Packet Tracer. Packet Tracer may be installed on personal computers and laptops, with Windows, Linux and Mac versions available.

**Computer Resources**

You may use the computers in the Smith Computer Center. There will also be lab assistants to help you.

These computers require a valid CIT username and password. If you do not already have a CIT login, visit [https://cit.dixie.edu/facilities/passwd/passwd.php](https://cit.dixie.edu/facilities/passwd/passwd.php) to create one, or ask a lab assistant to help you sign up for one.

**Course Information**

You are responsible for being informed regarding announcements, the schedule, and other resources posted on this website. Grading and assignments are managed on Canvas.
Assignments and Exams

Reading
The student is responsible for reading the material in the textbook. A reading schedule is provided with the class schedule on the course website. The student is expected to read the material before the class in which it is discussed. The book also includes material beyond what we will discuss in lecture, which you are encouraged to study on your own. Feel free to bring questions from the reading to lectures or to office hours.

Assignments
Expect a weekly assignment. Working with other students (but not cheating) is encouraged; to dialogue the process with other students helps master the concepts. Practical exam tasks will be based on previous assignments, so understanding the homework is important.

All assignments for the week are due Saturday night at 11:59pm, unless otherwise noted on Canvas. Late assignments may not be accepted and would be assessed a penalty anyway.

Some assignments are done in class as a group supported activity and cannot be rescheduled for absences. Missed in class assignments cannot be made up.

Exams
This course will have approximately four exams and one comprehensive final exam, along with weekly quizzes. Quizzes are largely based on end of chapter questions found in your text, although other questions will be asked depending on the subject.

Testing Out of the Class
Students may test out of the class with an A grade if they are able to become Network+ Certified before the third week of the semester. By becoming Network+ Certified you have proven that you have mastered this course material. If you are already Network+ Certified, the certification must be active (meaning passed within the last three years) and I must see a copy of your certificate.

Contact me if you have any questions about this.

Grading
Assignments, quizzes and exams each contribute to your point total.

- Assignments/Labs = 30%
- Quizzes = 20%
- Exams = 25%
- Comprehensive Final Exam = 25%

Here is the grading scale:

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;= 94</td>
<td>A</td>
</tr>
<tr>
<td>&gt;= 90</td>
<td>A-</td>
</tr>
<tr>
<td>&gt;= 87</td>
<td>B+</td>
</tr>
<tr>
<td>&gt;= 84</td>
<td>B</td>
</tr>
<tr>
<td>&gt;= 80</td>
<td>B-</td>
</tr>
<tr>
<td>&gt;= 77</td>
<td>C+</td>
</tr>
<tr>
<td>&gt;= 74</td>
<td>C</td>
</tr>
<tr>
<td>&gt;= 70</td>
<td>C-</td>
</tr>
<tr>
<td>&gt;= 67</td>
<td>D+</td>
</tr>
<tr>
<td>&gt;= 64</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 64</td>
<td>F</td>
</tr>
</tbody>
</table>

Course Policies

Covid-19 Seating and Attendance Requirements
This class will be taught synchronously. Students have the choice of attending in person or online through Zoom or both. You are allowed to attend solely online if you choose, provided you participate in class hands-on activities. Attending in person will only be possible if space is available.

Attendance will be taken each day, regardless if in person or through Zoom. Lectures will NOT be recorded for later playback.

There is enough room in SCC 107 for all students in IT2400 to attend in-person every week if you wish. If you are planning to attend via live-stream (Zoom), please let me know (if you haven’t already) so I can make sure everything is working for you.

In-class:
- Assigned seating is required for COVID-19 contact tracing
- Cloth face coverings are required for in-person attendance (please note that face shields will not be allowed as a substitute for a cloth face covering)
You are encouraged to bring your own laptop (especially if you want to use that laptop to complete work from home).

Absences

Students are responsible for material covered and announcements made in class. School-related absences may be made up only if prior arrangements are made. The class schedule on Canvas presented is approximate. The instructor reserves the right to modify the schedule according to class needs. Changes will be announced in class and posted to the website. Exams and quizzes cannot be made up unless arrangements are made prior to the scheduled time.

Time

Courses should require about 2 hours of outside work per lecture hour of class. This class will require about 6 hours of work per week on the part of the student to achieve a passing or higher grade. Be sure to evaluate your schedule before committing to this course.

Late work

Assignments are due on the date specified in the schedule. Late assignments will be accepted but penalized. No work will be accepted after the final exam.

Cheating and Collaboration

Limited collaboration with other students in the course is permitted and encouraged. Students may seek help learning concepts and developing programming skills from whatever sources they have available, and are encouraged to do so. Collaboration on assignments, however, must be confined to course instructors, lab assistants, and other students in the course. See the section on cheating.

Cheating will not be tolerated, and will result in a failing grade for the students involved as well as possible disciplinary action from the college. Cheating includes, but is not limited to, turning in homework assignments that are not the student’s own work. It is okay to seek help from others and from reference materials, but only if you learn the material. As a general rule, if you cannot delete your assignment, start over, and re-create it successfully without further help, then your homework is not considered your own work.

You are encouraged to work in groups while studying for tests, discussing class lectures, and helping each other identify errors in your homework solutions. If you are unsure if collaboration is appropriate, contact the instructor. Also, note exactly what you did. If your actions are determined to be inappropriate, the response will be much more favorable if you are honest and complete in your disclosure.

Where collaboration is permitted, each student must still create and type in his/her own solution. Any kind of copying and pasting is not okay. If you need help understanding concepts, get it from the instructor or fellow classmates, but never copy another’s written work, either electronically or visually. It is a good idea to wait at least 30 minutes after any discussion to start your independent write-up. This will help you commit what you have learned to long-term memory as well as help to avoid crossing the line to cheating.

Policy for Absences Related to College Functions

Students may periodically may miss classes for various college-related functions or military functions; these include athletics, club events, or to fulfill the requirements of a course or a program. Military functions may include: Reserve and Guard activation, activation, special assignments or other approved events or activities. These absences may often conflict with the instruction, assignments, and tests in this course.

Please provide an advanced written notification from your activity supervisor that explains the nature of the activity, and the anticipated time missed.

Disruptive Behavior Policy/Classroom Expectations

The classroom needs an atmosphere of learning and sharing. Class members need to feel safe and able to concentrate. Disruptive behavior that seriously detracts from this environment or inhibits the instructor’s ability to conduct proper instruction will not be allowed. Disruptive behavior includes:

- Physical violence, verbal abuse, or harassment
- Intoxication or illegal drug use
- Use of profanity
- Failing to respect others when expressing their own viewpoints
- Talking while the instructor or another student is talking
- Constant questions or interruptions that interfere with classroom presentation
Disruptive class members will be warned. Continued misbehavior may lead to dismissal from class or the course. If necessary, Campus Police may be called.

**College Policies**

Additional college policies, calendars, and statements are available online at [http://new.dixie.edu/reg/syllabus/](http://new.dixie.edu/reg/syllabus/).