ISM 3220 Spring 2016 Syllabus

General Course Information

CRN 11017

Course Title Data Communications

Description Fundamentals of data communications based on the OSI reference model. Introduction to media, signaling, error control, protocols, and network operating systems. Local area networks are emphasized. Installation, configuration, troubleshooting and management of technologies are practiced in a project environment.

College Lutgert College of Business

Subject Area ISM-Info. Systems Mgmt.

Course Number ISM 3220

Credit Hours 3

Meeting Information

<table>
<thead>
<tr>
<th>Start Date</th>
<th>End Date</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Jan 6, 2016</td>
<td>Apr 29, 2016 M</td>
<td>06:30 pm - 09:15 pm</td>
<td>LH 2210</td>
<td></td>
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<tr>
<td>Exam Apr 29, 2016</td>
<td>F</td>
<td>5:45 to 8pm</td>
<td>LH 2210</td>
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Prerequisites (COP 2006 with a minimum grade of C or ISM 3230 with a minimum grade of C) and (ISM 3011 with a minimum grade of C or CEN 3031 with a minimum grade of C)

Course URL http://canvas.fgcu.edu

Distance Learning/Off Campus Course Information

Is this a DL Course? No, it is an on-campus course. Canvas will be used to submit assignments, for course email, and to post course notes.

Instructor Information

Instructor Mark Pendergast

E-Mail Address mpenderg@fgcu.edu

(please use this email address for all course correspondence. Canvas does not have a reliable messaging system.)

Phone Number (239) 590-7361

Home Page http://ruby.fgcu.edu/courses/mpenderg

Office Location Lutgert Hall 3328

Office Hours Mon 4 pm to 6 pm, Tues/Thurs 1pm to 3pm or by appointment

Additional Information

Online Tutorials Information on online tutorials to assist students is available online at http://www.fgcu.edu/support/

Canvas Learning Management System and Demonstration Site Information on Canvas is available online at http://canvas.fgcu.edu

Library Resources

Main page: http://library.fgcu.edu/
Tutorials & Handouts: http://library.fgcu.edu/RSD/Instruction/tutorials.htm
Research Guides: http://fgcu.libguides.com/
Faculty Support: http://library.fgcu.edu/faculty_index.html
Contact Us: http://library.fgcu.edu/LBS/about/contactus.htm

Course Materials

Required Course Materials


(only the textbook is required from the publisher. No supplements or course codes)
Prerequisite knowledge
You are expected to know how to install and run common Windows and Web applications; how to manage files, directories, and disks in a Windows environment; how to program in Java, C, C# or C++.

Course Policies, Learning Objectives, and Agenda

Attendance:
Students are expected to attend every class session. It is the student's responsibility to get course notes from fellow students should they have to miss a class. Cell phones must be turned off before coming to class. Bringing food or drink to class or office hours is strictly prohibited.

Grading:
- Quizzes - 25%
- Assignments - 20%
- Midterm exams - 30%
- Final Exam - 20%
- Participation - 5%

Grading Scale:
- 90-100% A
- 80-89% B
- 70-79% C
- 60-69% D
- 0-59% F
+ and - grades may be given to borderline students at the discretion of the instructor

Late Assignments:
Late assignments will be penalized 10% per week. No assignment will be accepted more than 2 weeks after its due date.

Makeup Exams:
Makeup exams may be given in the case of student's illness or family emergency only. The student must make every effort to contact the professor prior to the exam if they cannot take the exam at its scheduled time. Quizzes and in class assignments cannot be made up.

"Credit hour" statement (developed by the LCOB):
For each credit of a class, you should expect to spend one hour in class and an average of 2 hours preparing outside of class each week. Therefore, since this is a 3-credit class, you should plan to devote an average of nine hours a week to this class.

Mandatory Confirmation of Attendance Assignment
- As of fall 2015, all faculty members are required to use Canvas to confirm a student's attendance for each course by the end of the first week of classes. Failure to do so will result in a delay in the disbursement of your financial aid. The confirmation of attendance is required for all students, not only those receiving financial aid.

Academic Dishonesty/Cheating Policy
All homework unless otherwise specified should be the student's own work. If you turn in someone else's work, then you will lose double points for that assignment. If you allow someone else access to your work, then you will lose all points for that assignment.

What is not ok (that is, cheating):
- working with another student and turning in the same assignment
- emailing or posting your working assignment to allow someone else to "just see how you did it"
- copying someone else's assignment or copying a assignment from a book or the internet.

What is OK:
- explaining to another student what mistakes they made
- discussing how to approach an assignment
- asking your professor for help in person or via email

Learning Objectives
Design and Present IT Solutions
- Specify a network to solve a particular problem characteristic of a small to medium sized business. Analyze the feasibility of the plan and its costs
- Explain network security risks and know how to design and implement technologies to mitigate them.

Create an IT Solution
- Perform simple configuration & management tasks in a network operating system

Content Knowledge
- Explain the basic components of a network and how a message is sent over a network using the Internet model
- Describe the characteristics of local area networks and wide area networks. Distinguish between them.
List common networking protocols and describe their functions.
Understand the basics of cloud computing, its advantages and disadvantages.

Course Outline
(subject to change)

Part 1 Introduction and distributed data
- Ch 1 Introduction
- Ch 2 Business data
- Ch 3 Distributed data processing

Part 2 Internet Architecture
- Ch 7 The Internet
- Ch 8 TCP/IP
- Ch 9 Client/Server, Intranet, Cloud Computing

Part 3 Internet Applications and Operations
- Ch 10 Internet based applications
- Ch 11 Internet operation

Part 4 Local Area Networks
- Ch 12 LAN Architecture and Infrastructure
- Ch 13 Ethernet
- Ch 14 Wireless LANs

Part 5 Network Security
- Ch 18 Computer and Network Security Threats
- Ch 19 Computer and Network Security Techniques

Part 6 - BONUS Network Management (time permitting)
- Ch 20 Network Management (see canvas for chapter text)

Chapter reading and assignment schedules are posted in Canvas.

Important Dates
- Jan 11 - First class meeting
- Jan 18 - MLK day no classes
- Feb 15 - Midterm 1 exam (tentative)
- Mar 7 - Spring Break, no class.
- Mar 22 - Last day to drop without academic penalty
- Apr 4 - Midterm 2 (tentative)
- Apr 25 - last day of class, last day assignments will be accepted
- Apr 29 - Final Exam 5:45 to 8pm LH 2210

University Statements:

Academic Behavior Standards and Academic Dishonesty
All students are expected to demonstrate honesty in their academic pursuits. The university policies regarding issues of honesty can be found in the FGCU Student Guidebook under the Student Code of Conduct and Policies and Procedures sections. All students are expected to study this document which outlines their responsibilities and consequences for violations of the policy. The FGCU Student Guidebook is available online at http://studentservices.fgcu.edu/judicialaffairs/new.html.

Disability Accommodations Services
Florida Gulf Coast University, in accordance with the Americans with Disabilities Act and the university’s guiding principles, will provide classroom and academic accommodations to students with documented disabilities. If you need to request an accommodation in this class due to a disability, or you suspect that your academic performance is affected by a disability, please see me or contact the Office of Adaptive Services. The Office of Adaptive Services is located in Howard Hall 137. The phone number is 590-7956 or TTY 590-7930.

Student Observance of Religious Holidays
All students at Florida Gulf Coast University have a right to expect that the University will reasonably accommodate their religious observances, practices, and beliefs. Students, upon prior notification to their instructors, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith. Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances. Where practicable, major examinations, major assignments, and University ceremonies will not be scheduled on a major religious holy day. A student who is to be excused from class for a religious observance is not required to provide a second party certification of the reason for the absence.