

University of Puerto Rico
 Mayagüez Campus
 College of Engineering
 Department of Electrical and Computer Engineering
 Ph.D. in Computing Information Sci Eng

Course Syllabus

1. General Information:	
Alpha-numeric codification: ICOM 6115 Course Title: Temas en Ingeniería de Computadoras Number of credits: 3 Contact Period: 3 horas contacto por semana.	
2. Course Description:	
English: Development of advanced topics in computer engineering of academic and research interest.	
Spanish: Desarrollo de temas avanzados de interés académico e investigativo en ingeniería de computadoras.	
3. Pre/Co-requisites and other requirements:	
ICOM 4035 or equivalent. Proficiency with C++ and UNIX.	
4. Course Objectives:	
Be sure to include measurable objectives, centered on the students, and what they should be able to accomplish after completing the course.	
5. Instructional Strategies:	
<input checked="" type="checkbox"/> conference <input type="checkbox"/> discussion <input type="checkbox"/> computation <input type="checkbox"/> laboratory <input type="checkbox"/> seminar with formal presentation <input type="checkbox"/> seminar without formal presentation <input type="checkbox"/> workshop <input type="checkbox"/> art workshop <input type="checkbox"/> practice <input type="checkbox"/> trip <input type="checkbox"/> thesis <input type="checkbox"/> special problems <input type="checkbox"/> tutoring <input type="checkbox"/> research <input type="checkbox"/> other, please specify:	
6. Minimum or Required Resources Available:	
Access to computer resources located at the ECE Department.	
7. Course time frame and thematic outline	
Outline	Contact Hours
Introduction to Computer Networks	4
The Physical Layer	4
The Data Link Layer	8
The Medium Access Control Sublayer	7
The Network Layer	6
The Transport Layer	6
The Application Layer	2
Network Security	3
Review	3
Exam	2
Total hours: (equivalent to contact period)	45
8. Grading System	
<input checked="" type="checkbox"/> Quantifiable (letters) <input type="checkbox"/> Not Quantifiable Score Grade 100 – 90 A 89 – 80 B 79 – 70 C 69 – 65 D 64 – 0 F	

9. Evaluation Strategies

	Quantity	Percent
<input checked="" type="checkbox"/> Midterm Exams	3	25%
<input checked="" type="checkbox"/> Final Exam (Comprehensive)	1	20%
<input type="checkbox"/> Short Quizzes		
<input type="checkbox"/> Oral Reports		
<input type="checkbox"/> Monographies		
<input type="checkbox"/> Portfolio		
<input type="checkbox"/> Projects		
<input type="checkbox"/> Journals		
<input checked="" type="checkbox"/> Other, specify: Programming Projects		55%
TOTAL:		100%

10. Bibliography:

1. *Computer Networks*, 4th Ed. Andres S. Tanenbaum, Prentice Hall, 2002
ISBN: 0130661023
2. *Computer Networks: A Systems Approach*, 4th Ed. Larry Peterson and Bruce Davie
Morgan Kauffman, 2007 ISBN: 0123705487

11. According to Law 51

Students will identify themselves with the Institution and the instructor of the course for purposes of assessment (exams) accommodations. For more information please call the Student with Disabilities Office which is part of the Dean of Students office (Chemistry Building, room 019) at (787)265-3862 or (787)832-4040 extensions 3250 or 3258.