

University of Puerto Rico
 Mayagüez Campus
 College of Engineering
 Department of Electrical and Computer Engineering
 Bachelor of Science in Electrical Engineering

Course Syllabus

1. General Information:	
Alpha-numeric codification: ICOM 4048 Course Title: Practical Experience in Computer Engineering Number of credits: 3 Contact Period: Depends on the assignment Elective in ICOM	
2. Course Description:	
English: Provide the students with practical experience in Computer Engineering projects, in collaboration with private industry and government. The student's work will be supervised by a member of the department and by a professional with experience in supervisory positions in the agency or company. A written and oral report are required from the student at the end of the project. This course is available only to students working in private industry or governments as Coop or internship.	
Spanish: Provee experiencia práctica en proyectos de Ingeniería de Computadoras al estudiante, en cooperación con la industria privada y gobierno. La labor del estudiante será supervisada por un miembro del departamento y un profesional con experiencia en posiciones de supervisión de la agencia o compañía. Un informe oral y escrito será requerido al estudiante al finalizar us proyecto. El curso estará disponible solo para estudiantes que están trabajando en la industria privada o gobierno en posiciones de Coop o internado.	
3. Pre/Co-requisites and other requirements:	
Consent of the Director of the Department.	
4. Course Objectives:	
Students will compare and contrast the theoretical aspects of computer engineering with the real world practice. They will apply the fundamental concepts taught in the classroom and recognize their value in real practice. Students will experience and be exposed to the practical aspects of computer engineering design.	
5. Instructional Strategies:	
<input 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 checked="" 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:	
7. Course time frame and thematic outline	
Outline	Contact Hours

Varies with assignment	
Total hours: (equivalent to contact period)	

8. Grading System

Quantifiable (letters) Not Quantifiable

9. Evaluation Strategies (Suggested): The faculty member teaching the course will provide the student with the evaluation strategy he/she will be using throughout the semester. This will be done within the first week of classes.

	Quantity	Percent
<input type="checkbox"/> Exams		
<input type="checkbox"/> Final Exam		
<input type="checkbox"/> Short Quizzes		
<input checked="" type="checkbox"/> Oral Reports	1	10%
<input type="checkbox"/> Monographies		
<input type="checkbox"/> Portfolio		
<input type="checkbox"/> Projects		
<input type="checkbox"/> Journals		
<input checked="" type="checkbox"/> Other, specify: Progress Report	varies	10%
Supervisor Evaluation	1	40%
Final Report	1	40%
TOTAL:		100%

10. Bibliography:

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.

12. Contribution of Course to meeting the requirements of Criterion 5:

Math	Basic Science	General	Engineering Topic
			√

13. Course Outcomes

Map to Program Outcomes

- | | |
|---|-----|
| 1. Apply computer engineering knowledge to conduct analysis and design of problems in a real engineering practice environment | (a) |
| 2. Design and conduct experiments as well as analyze and interpret data in a real engineering practice environment | (b) |
| 3. Design an and analyze computer systems to meet an organizational need | (c) |
| 4. Ability to participate and collaborate on multidisciplinary teams | (d) |
| 5. Ability to communicate effectively in an organizational environment | (g) |
| 6. Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice | (k) |
| 7. Prepare work progress reports and document project work. | (g) |

Person (s) who prepared this description and date of preparations: José Borges.
Submitted by: Isidoro Couvertier, Comité Timón, October, 2007.