

University of Puerto Rico  
 Mayagüez Campus  
 College of Engineering  
 Department of General Engineering  
 Master of Science and Engineering

## Course Syllabus

**1. General Information:**

Alpha-numeric codification: CIIM 6995  
 Course Title: SELECTED TOPICS  
 Number of credits: 1-6  
 Contact Period: One to six hours of lecture per week

**2. Course Description:**

**English:** Selected topics in materials science and engineering

**Spanish:** Temas selectos en ciencia e ingeniería de materiales

**3. Pre/Co-requisites and other requirements:**

Graduate student with authorization of the Program Coordinator.

**4. Course Objectives:**

By the end of the course students will:  
 - Analyze and explain advanced concepts applied to specific research on materials processing.  
 Evaluate the application of those concepts in benefit of their own research work.

**5. Instructional Strategies:**

- conference    discussion    computation    laboratory  
 seminar with formal presentation    seminar without formal presentation    workshop  
 art workshop    practice    trip    thesis    special problems    tutoring  
 research    other, please specify:

**6. Minimum or Required Resources Available:**

No specific resources are required.

**7. Course time frame and thematic outline**

Outline	Contact Hours
Subject matters related to Materials Science and Engineering may vary from semester to semester depending on the expertise field of the instructor. Each instructor will design a specific outline depending on the subjects matters.	
<b>Total hours: (equivalent to contact period)</b>	

**8. Grading System**

- Quantifiable (letters)    Not Quantifiable

Standard Curve:

100-90 A; 89-80 B; 79-70 C; 69-60 D; 59-0 F

**9. Evaluation Strategies**

	Quantity	Percent
<input type="checkbox"/> Exams		
<input checked="" type="checkbox"/> Final Exam	1	40
<input type="checkbox"/> Short Quizzes		
<input checked="" type="checkbox"/> Oral Reports	Depends on the number of lecture hours per week	30
<input checked="" type="checkbox"/> Monographies	Depends on the number of lecture hours per week	30
<input type="checkbox"/> Portfolio		
<input type="checkbox"/> Projects		
<input type="checkbox"/> Journals		
<input type="checkbox"/> Other, specify:		
<b>TOTAL:</b>		<b>100%</b>

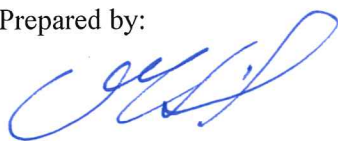
#### 10. Bibliography:

Each semester, the corresponding instructor will select the books and the suitable web resources that best cover the discussion matters. Research reports as well as relevant papers published in recognized journals and conference proceedings will also be an important part of the instruction material.

Selected articles from specialized journals available in: *ACS* (<http://pubs.acs.org>), *Engineering Village* (<http://www.engineeringvillage.org>), *IEEE* (<http://ieeexplore.ieee.org/xplore/dynhome.jsp>), and *Science Direct* (<http://www.sciencedirect.com>) [Available online via ACS Journals, ScienceDirect and IEEE, UPRM General Library]

**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 at (787) 265-3864 or (787) 832-4040 extensions 2040 or 3372.

Prepared by:



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Approved by:



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