Course Objectives & Outcomes
College of Science & Engineering

Department: Civil and Environmental Engineering
Course Number: CE 5568
Course Name: Behavior of Composite Materials

Course Objectives and Assignments:
1. Ability to solve mechanics of composite materials problems using classical methods
   Assignment: Weekly problem sets are assigned.
2. Ability to do research and present on an advanced material topic
   Assignment: Students submit a research paper and present it in class.

Course Outcomes:
1. Some understanding of types, manufacturing processes, and applications of composite materials
2. Ability to analyze problems on macromechanical behavior of lamina
3. Ability to analyze problems on micromechanical behavior of lamina
4. Ability to analyze problems on macromechanical behavior of laminate
5. Ability to analyze problems on bending, buckling, and vibration of laminated plates and beams
6. Ability to obtain laminate behavior using a computer program
7. Ability to perform literature search on a selected advanced material topic and giving class presentation

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Note: One or more extra problem(s) or different problem(s) will be assigned to the graduate students, both on the weekly homework and on the exams.