

Industrial Engineering Program

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| 1. COURSE NUMBER AND NAME | IE 443 – Senior Project I |
| 2. CREDITS AND CONTACT HOURS | 2 Credits. 4 Contact Hours |
| 3. COURSE INSTRUCTOR | Layer Abdel-Malek |
| 4. TEXT BOOK | Not required |
| 4A. OTHER MATERIAL | Data, drawings, process descriptions and other material provided by the project sponsor. Book and other publication references appropriate for the project. |
| 5A. CATALOG DESCRIPTION | Introduction to senior design project. Selection of specific system design for the project, establishment of initial contacts, preliminary collection and analysis of system data. Concepts of system design analysis emphasizing simulation modeling and analysis, model verification, and model validation. |
| 5B. PREREQUISITES | Senior standing |
| 5C. REQUIRED, ELECTIVE OR SELECTED ELECTIVE | Required |
| 6A. SPECIFIC OUTCOMES OF INSTRUCTION | The students will: <ol style="list-style-type: none"> 1 Learn to work in a team setting (d). 2 Learn to integrate knowledge gained in program courses and apply it to a real world problem (a, c and e) 3 Learn to prepare professional reports and make presentations (g) 4 Learn project management skills, allocations of resources and time management (f and k) |
| 6B. CRITERION 3 OUTCOMES ADDRESSED | The mapping of the four (4) outcomes of instruction of item 6A to the Criterion 3 outcomes (a-k) is as follows: <ol style="list-style-type: none"> 1. Satisfies Criterion 3 outcome d. 2. Satisfies Criterion 3 outcomes a, c and e. 3. Satisfies Criterion 3 outcome g. 4. Satisfies Criterion 3 outcomes f and k). |
| 7. TOPICS COVERED | <ol style="list-style-type: none"> 1. Formation of project teams 2. Assignment of projects to teams 3. Introduction of team to industry representative(s) 4. Visit to industrial location |

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| | <ol style="list-style-type: none">5. Scope of work6. Data and information collection7. Determination of required skills and models8. Project execution plan9. Prepare a written progress report and make an oral presentation |
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