CBM003 ADD/CHANGE FORM

☑ Undergraduate Council  ☐ Graduate/Professional Studies Council
☑ New Course  ☐ Course Change
Core Category:  ☑  Effective Fall 2008

1. Department: Industrial Engineering  College: ENGR
2. Person Submitting Form: Hamid R. Parsaei  Telephone: 3-6041
3. Course Information on New/Revised course:
   - Instructional Area / Course Number / Long Course Title:
     INDE / 4373 / Engineering Leadership & Entrepreneurism
   - Instructional Area / Course Number / Short Course Title (30 characters max.):
     INDE / 4373 / ENGR LEADERSHIP & ENTRE
   - SCH: 3.00  Level: SR  CIP Code: 14.0101.00.06  Lect Hrs: 3.0  Lab Hrs: 0
4. Justification for adding/changing course: Successfully taught as a selected topics course
5. Was the proposed/revised course previously offered as a special topics course? ☑ Yes  ☐ No
   If Yes, please complete:
   - Instructional Area / Course Number / Long Course Title:
     ENGI / 4397 / Engineering Leadership & Entrepreneurism
   - Content ID: 29048  Start Date (yyyy3): 20031
6. Authorized Degree Program(s): BSEE
   - Does this course affect major/minor requirements in the College/Department?  ☑ Yes  ☐ No
   - Does this course affect major/minor requirements in other Colleges/Departments?  ☑ Yes  ☐ No
   - Are special fees attached to this course?  ☑ Yes  ☐ No
   - Can the course be repeated for credit?  ☑ Yes  ☐ No
7. Grade Option: Letter (A, B, C, ...)  Instruction Type: lecture ONLY  (Note: Lect/Lab info. must match item 3, above.)
8. If this form involves a change to an existing course, please obtain the following information from
   the course inventory: Instructional Area / Course Number / Long Course Title
   29048  Start Date (yyyy3): 20031  Content I.D.: 29048
9. Proposed Catalog Description: (If there are no prerequisites, type in "none".)
   Gr: 3. (3-0). Prerequisites: ENGI 2304 and INDE 3333. Description (30 words max.): Introduction to entrepreneurship, business planning, cost classifications, introduction to accounting and management information systems, finance, cash management, human resources and culture, ethics, team building.
10. Dean's Signature: ___________________________ Date: 10/15/02

Print/Type Name: Dr. Frank Claydon

- Created on 6/6/2007 3:40:00 PM -
INDE 4373
Engineering Leadership and Entrepreneurism Program (ELEP)
Course Syllabus

Instructors: Hamid R. Parsaei parsaei@uh.edu
713-743-6041
Room E206
Engineering Building 2

Teaching Assistant: TBA
Room: N393-B
Engineering Building 1

Semester Grade:
- Attendance 10%
- Class participation 5%
- First Exam 20%
- Final Exam 20%
- Mid-term Presentation 10%
- Final Presentation 10%
- Homework 5%
- Final Report 20%

Prerequisite(s):
- ENGI 2304 and INDE 3333.

Textbook and Handouts (required):

Case Study-Specific Materials (handouts prepared and distributed by instructors)

Course Objectives:
Students will gain leadership and entrepreneurial skills to develop and initiate technology-based enterprises.
Course Outcomes:

Upon completion of the course, students will have the knowledge and first hand experience in the business, technical, interpersonal, and interdisciplinary skills. Knowledge gained in this course will allow students to:

1. Understand the structure required for effective business planning and business modeling for a real technology based business opportunity
2. Gain broad education necessary to understand the impact of engineering solutions in a global and societal context (ABET outcome h)
3. An understanding of professional and ethical responsibility (ABET outcome f).
4. Gain knowledge of contemporary issues (ABET outcome j)
5. Perform as an effective team member (ABET outcome d)
6. Understand principles and learn the necessary skills to become effective communicators (ABET outcome k)
<table>
<thead>
<tr>
<th>Lectures</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1</td>
<td>Introduction to Entrepreneurism</td>
</tr>
<tr>
<td>Lecture 2</td>
<td>Entrepreneurship: Cost classifications</td>
</tr>
<tr>
<td>Lecture 3</td>
<td>Entrepreneurship: Cost classifications</td>
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<tr>
<td>Lecture 4</td>
<td>Entrepreneurial Behavior and Attitude</td>
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</tr>
<tr>
<td>Lecture 6</td>
<td>Societal Wealth vs. Individual Wealth. Types of Business: Manufacturing vs. Service</td>
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<tr>
<td>Lecture 7</td>
<td>Forming Business Entities: Opportunities and Limitations</td>
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<tr>
<td>Lecture 8</td>
<td>Patent, Trade Mark, Licensing, etc.</td>
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<tr>
<td>Lecture 9</td>
<td>Introduction to Finance</td>
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<td>Lecture 10</td>
<td>Human Side of Enterprise: Human Resources and Culture</td>
</tr>
<tr>
<td>Lecture 11</td>
<td>Human Side of Enterprise: Ethics</td>
</tr>
<tr>
<td>Lecture 12</td>
<td>Business Plans: Purpose and Elements</td>
</tr>
<tr>
<td>Lecture 13</td>
<td>Business Plans: How to prepare them</td>
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<tr>
<td>October 5</td>
<td>Revenue and Cash Management</td>
</tr>
<tr>
<td>October 10</td>
<td>Team Building (meeting 1)</td>
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<tr>
<td>October 12</td>
<td>Team Building (meeting 2)</td>
</tr>
<tr>
<td><strong>Exam 1</strong></td>
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</tr>
<tr>
<td>Lecture 13</td>
<td>Presentation of Business Plans</td>
</tr>
<tr>
<td>Lecture 14</td>
<td>Presentation of Business Plans</td>
</tr>
</tbody>
</table>
Lecture 15  Introduction to Accounting and Management Information Systems
Lecture 16  Managerial Accounting
Lecture 17  Strategic Selling I
Lecture 18  Strategic Selling II
Lecture 19  New Product Development
Lecture 20  Sources of Capital
Lecture 21  New Product Development
Lecture 22  Risk Management and Decision Analysis
Exam 2
Lecture 23  Project Management
Final Presentations
Final Presentations
Submission of Final Reports