ENGR 162X INTRODUCTION TO ENGINEERING


Supplementary Texts: (UE) Product Design and Development, Karl T. Ulrich and Steven D. Eppinger, Library Reserve

Instructor: James F. Groves, jgroves@virginia.edu
(M) Mondays - Lecture
(W) Wednesdays - Team Workshop
(F) Fridays - Team Presentations

Table 1: Schedule for Fall 2004

<table>
<thead>
<tr>
<th>Date</th>
<th>No.</th>
<th>Topic/Event</th>
<th>Reading Assignment</th>
<th>Deadlines</th>
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<tbody>
<tr>
<td>Sep 1 (W)</td>
<td>1</td>
<td>Introduction to ENGR 162X Conceptual Design Team Assignments (Artifact Assignment)</td>
<td>DL: Ch. 1</td>
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<tr>
<td>3 (F)</td>
<td>2</td>
<td>What is Engineering? Presentation and Discussion of Design Examples</td>
<td>DL: Ch. 2</td>
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<tr>
<td>6 (M)</td>
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<td>Intro to Engineering Challenge Project: Transportation Alternatives in Charlottesville - Problem Background</td>
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<td>8 (W)</td>
<td>4</td>
<td>Problem Definition/ Creativity/ Internal and External Searching</td>
<td>DL: 3.5, 5.2.1, 5.2.2, UE Ch. 6 pp. 115-118</td>
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<td>10 (F)</td>
<td>5</td>
<td>Product Planning &amp; Specifications</td>
<td>DL: 3.2, 3.4, 4.2, UE Chs. 3-5</td>
<td>Artifact Report</td>
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<td>13 (M)</td>
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<td>Concept Generation (Conceptual Design Milestone Assignment)</td>
<td>DL: 5.1, 5.2.4, 5.3, 5.4, UE Ch. 6</td>
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<td>Charlottesville Transportation: History, Statistics and State-of-the-Art (Team S) / Discussion</td>
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<td>Concept Selection – Screening and Scoring</td>
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<td>Conceptual Design</td>
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<td>29 (W)</td>
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<td>Challenge Concept Selection/Problem Decomposition</td>
<td>UE Ch. 6 pp. 112-114</td>
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<td>Oct 1 (F)</td>
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<td>Engineering Design Team Assignments Way It Works Example/Assignments Technical Drawing</td>
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<td>11 (M)</td>
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