

Figure 6.2

Hierarchy of ABET Objectives and Outcomes

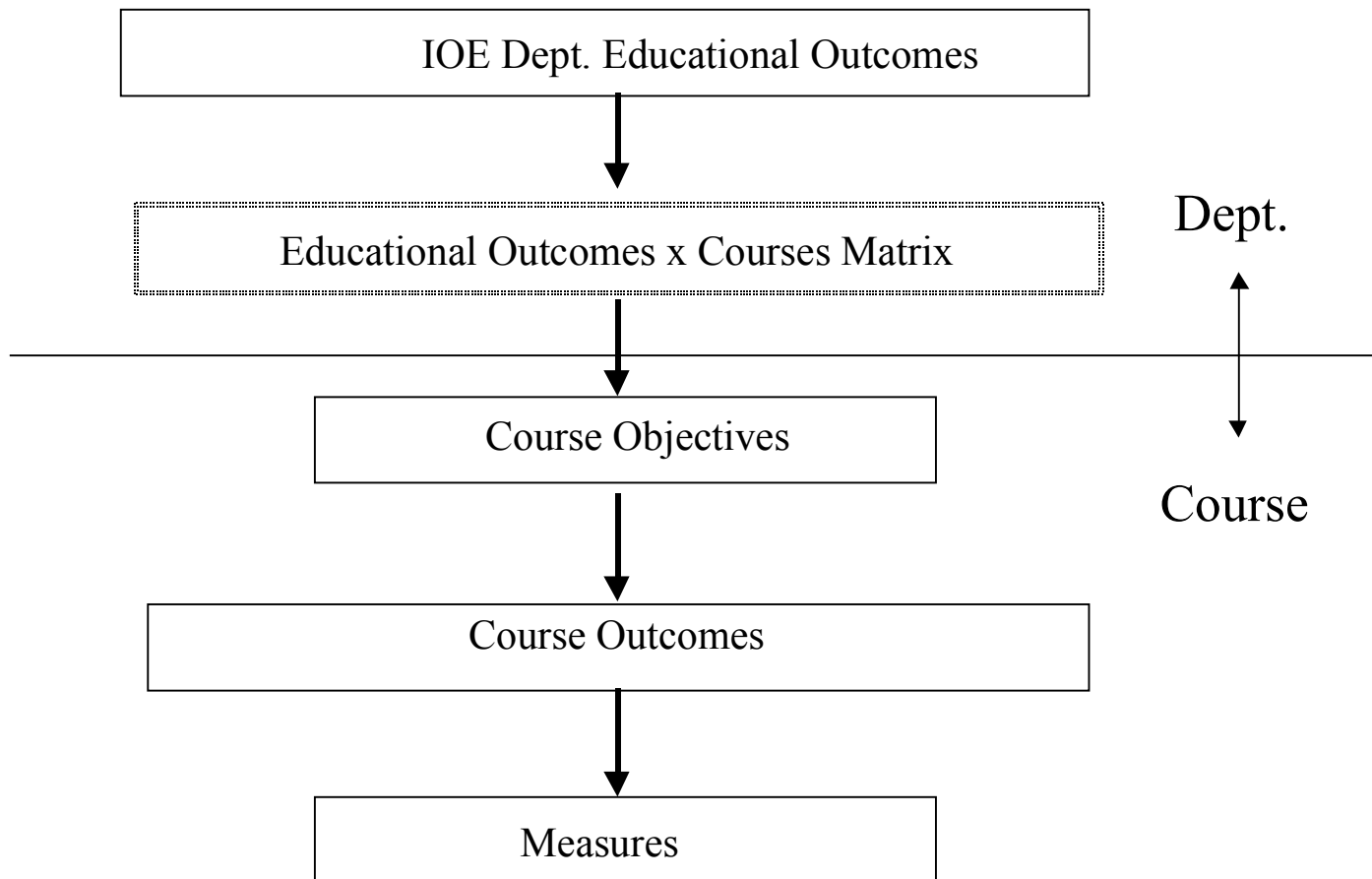


Table 6.1: Industrial & Operations Engineering Program Mission, Goals, Educational Objectives and Educational Outcomes

<p><u>Mission</u></p>	<p>To be an international leader in developing and teaching theory and methods for the design, analysis, implementation, and improvement of integrated systems of people, materials, information, facilities, and technology.</p>
<p><u>goals</u></p>	<ol style="list-style-type: none"> 1. To recruit, educate, and support excellent, diverse students and prepare them to be leaders in the practice and further development of industrial and operations engineering. 2. To have one of the leading undergraduate programs in the world in industrial and operations engineering. 3. To engender the skills and desire to continually learn and grow through a lifelong professional career.
<p>educational objectives</p>	<p>We will work with honesty and integrity to provide all of our students with an outstanding education and to advise and assist them in fulfilling their educational and career objectives. Our undergraduate program will provide students with a diverse range of professional objectives with the knowledge, skills and tools to:</p> <ol style="list-style-type: none"> 1. Address contemporary and future problems in enterprises; 2. develop skills in critical thinking, teamwork, problem solving and communicating with others; 3. initiate and manage change in organizations and processes; 4. understand their professional and ethical responsibilities; 5. appropriately employ information systems and technology; and 6. enable enterprises to make optimal decisions under conditions of uncertainty.
<p>EDUCATIONAL OUTCOMES</p>	<p>DE graduates should have:</p> <ol style="list-style-type: none"> 6 an ability to apply knowledge of mathematics, science, and engineering; 7 an ability to design and conduct experiments, as well as analyze and interpret data; 8 an ability do design and improve integrated systems of people, materials, information, facilities, and technology; 9 an ability to function as a member of a multi-disciplinary team; 10 an ability to identify, formulate, and solve industrial and operations engineering problems; 11 an understanding of professional and ethical responsibility; 12 an ability to communicate effectively; 13 the broad education necessary to understand the impact of engineering solutions in a global and societal context; 14 a recognition of the need for, and an ability to engage in life-long learning;

	<p>15 a knowledge of contemporary issues;</p> <p>16 an ability to use updated techniques, skills and tools of industrial and operations engineering throughout their professional careers;</p> <p>17 a base set of skills and knowledge, regardless of specific professional goals, in human resource management, personal management, macro analysis, critical thinking, operations management, operations research, and information systems (see IOE Core skills list).</p>
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