### Inventory of Educational Effectiveness Indicators

<table>
<thead>
<tr>
<th>Academic Program</th>
<th>(2a) What are these learning outcomes?</th>
<th>(3) Other than GPA, what data/evidence are used to determine that graduates have achieved stated outcomes for the degree? (e.g., capstone course, portfolio review, licensure examination)?</th>
<th>(4) Who interprets the evidence? What is the process?</th>
<th>(5) How are the findings used?</th>
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</thead>
<tbody>
<tr>
<td>Department:</td>
<td>Students graduating with a degree should be able to:</td>
<td>Other than GPA, what data/evidence are used to determine that graduates have achieved stated outcomes for the degree? (e.g., capstone course, portfolio review, licensure examination)?</td>
<td>Who interprets the evidence? What is the process?</td>
<td>How are the findings used?</td>
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<tr>
<td>Electrical and Computer Engineering</td>
<td>Written Communication - Communicate effectively in writing and with visual means - Function on multidisciplinary teams to solve electrical engineering problems</td>
<td>Written Communication - Capstone Project Design Course: The department operates two courses designated as Capstone Courses, one of which is required for graduation. These courses emphasize project design, team engineering and project presentations focused on program outcomes and objectives.</td>
<td>Written Communication</td>
<td>Written Communication</td>
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<tr>
<td>B.S. in Electrical Engineering</td>
<td>Oral Communication - Communicate effectively in speech and with visual means - Collaborate effectively with others to design a system, component, or process to meet desired needs</td>
<td>Oral Communication - Capstone Project Design Course</td>
<td>Oral Communication</td>
<td>Oral Communication</td>
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<tr>
<td>B.S. in Computer Engineering</td>
<td>Quantitative Reasoning - Display an understanding of the underlying principles of, and an ability to apply knowledge of, mathematics, science and engineering to electrical engineering problems. - Analyze and interpret data</td>
<td>Quantitative Reasoning - Capstone Project Design Course</td>
<td>Quantitative Reasoning</td>
<td>Quantitative Reasoning</td>
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<tr>
<td>B.S. in Engineering Physics</td>
<td>Information Literacy - Use the techniques, skills, and modern engineering tools necessary for engineering practice, including familiarity with computer programming and information technology</td>
<td>Information Literacy - Capstone Project Design Course</td>
<td>Information Literacy</td>
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<tr>
<td>B.A. in Engineering and Society</td>
<td>Critical Thinking - Identify, formulate and solve engineering problems - Design and conduct experiments - Have the broad education necessary to understand the impact of engineering solutions in a global and societal context</td>
<td>Critical Thinking - Capstone Project Design Course</td>
<td>Critical Thinking</td>
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<td>(1) Have formal learning outcomes been developed?</td>
<td>Yes</td>
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<td>(6) Date of the last Academic Senate Review?</td>
<td>May 2010</td>
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<td>All other items not color coded</td>
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<td>Constituents</td>
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<td>- Course Directors: Key lower division and breadth courses are assigned to a specific course director (sub-committee of Undergraduate Affairs) who meets regularly with instructors to determine whether courses are meeting objectives and outcomes</td>
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<td>- Curriculum Committee: Sub-committee of Undergraduate Affairs which examines course content to ensure program objectives and outcomes are being addressed across the curriculum</td>
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<td>- ABET review</td>
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<td>- Industrial Advisory Board: Comprised of University affiliates throughout industry, the Board meets yearly to evaluate all data collected and make recommendations for improvements and future program directions</td>
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<td>- Student Honor Society: The department works closely with undergraduate student honor society (Eta Kappa Nu) to obtain their input and interpretation of survey data</td>
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</tbody>
</table>

| (2b) |
| Where are the learning outcomes published? |
| Please provide your department/program website address. |
| [http://www.ece.ucsd.edu/undergraduate/abet-wasc-accreditation](http://www.ece.ucsd.edu/undergraduate/abet-wasc-accreditation) |
| UC San Diego General Catalog: [http://ucsd.edu/catalog/curric/ECE-ug.html](http://ucsd.edu/catalog/curric/ECE-ug.html) |
| ABET documentation/reports |
| Mission statements posted throughout department |