TUNING OVERSIGHT COUNCIL FOR ENGINEERING

Charges to the Tuning Oversight Council for Engineering, and in turn to the discipline-specific committees, are to:

1) Create clear learning outcomes for students in each specified engineering discipline area. The sets of learning outcomes should be appropriate for each discipline and should not specify curriculum or pedagogy, which are the purview of individual institutions with their own missions, student demographics, and faculty strengths;

2) Facilitate surveys that will be carried out by the staff of the Texas Higher Education Coordinating Board regarding general competencies needed by graduates of the engineering disciplines. These surveys will be addressed to students, recent graduates, faculty, and employers appropriate to each of the disciplines. The discipline-specific committees will be asked to review the lists of general competencies in the surveys and assist Coordinating Board staff in identifying survey recipients;

3) Facilitate surveys of faculty members that will be carried out by the staff of the Texas Higher Education Coordinating Board regarding discipline-level knowledge and application needed by graduates of the engineering disciplines;

4) Map the employability of graduates in each discipline to positions in the labor market;

5) Draft degree profiles of academic programs grounded in explicit learning outcomes;

6) Identify, on the basis of the agreed-upon learning outcomes at the lower-division level (i.e., up to the level of a certificate or an associate's degree), a set of courses that will provide the necessary academic background so students can migrate seamlessly into participating engineering programs at four-year institutions;

7) Provide an assessment of the process and recommendations for future discipline-level work to define outcomes.