Streamlining Curriculum Assessment and Enhancement at Purdue University Calumet

Goals/ABET Criterion (Criteria) Addressed
This session will address Criterion 2 and 3 of ABET Engineering Criteria 2000.

For the first time in fall 2003, the engineering department will have an accreditation based on ABET Engineering Criteria 2000. The main focus of the assessment committee and the engineering department has been on preparing for the ABET visit based on criteria 2000 and streamlining the process. The objective of this session is to share accomplishments and experience gained.

Presentation Format
This session will share the experience with the audience in the form of lecture.

Session Summary
The new system for accreditation ABET 2000 differs from predecessor in Criterion 2 and 3. Work presented in this session also concentrates on Criterion 2 (program objectives) and 3 (program outcomes and continuous program improvement). ABET criterion 2 requires that each engineering program for which an institution seeks accreditation must have detailed educational objectives that are consistent with the mission of the institution and are supported by the curriculum. Criterion 3 indicates that each engineering program must demonstrate that their graduates have the ability outlined in ABET outcomes “a-k”. A well stated program outcome should encompass ABET outcomes and be supported by curriculum. The outcomes indicate what all students expected to know and able to do at the time of graduation and should be linked to program educational objectives. The experience gained working on Criterion 2 and 3 will be shared. The accomplishments are summarized as follows:

- Developed an outcome-based engineering program assessment & enhancement process
- Identified relationship between educational objectives and outcomes
- Developed performance criteria for engineering program outcomes
- Specified one or two supporting courses for assessing each outcome
- Developed and implemented course and program assessment matrices
- Developed and conducted undergraduate surveys
- Developed and conducted senior exit interviews
- Updated list of course responsibility for each faculty
- Developed a standard for syllabi with learning objectives for engineering courses
- Developed and conducted course assessment reports
- Specified process time schedule
- Revised and streamlined the assessment procedure based on feedback received


**Key Words**
ABET Engineering Criteria 2000, Criterion 2 (program educational objectives), Criterion 3 (program outcomes and assessment).

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