

School of Engineering and Applied Science
Department of Engineering Technology
Industrial and Student Advisory Council Meeting
Friday, March 28, 2008
Wilks Conference Center
Miami University, Hamilton, OH

AGENDA

12:00 - 12:45 *Lunch and Socializing*

12:45 - 1:30 *General Session*

- *Introductory remarks and welcome*
Marek Dollár, Dean School of Engineering and Applied Science
- *Overview of regional campus issues and initiatives*
Daniel Hall, Dean Hamilton Campus

1:30 – 3:40 *Departmental Session*

1:30 - 1:40 *Break*

1:40 - 3:40 *ENT Program Breakout Sessions**

*In general, ENT program sessions will include discussions about ABET accreditation results, assessment processes with results, and program directions for EMET, MET, and ECET.

ENT	Engineering Technology
EMET	Electro-Mechanical Engineering Technology
MET	Mechanical Engineering Technology
ECET	Electrical and Computer Engineering Technology

Mechanical Engineering Technology – AS and BS Agenda Advisory Council

Friday, March 28, 2008

1:40 – 3:40 PM

***Harry T. Wilks Conference Center
Miami University, Hamilton, OH***

1. Old Business - Review of Minutes of November 2007 meeting
2. ABET Accreditation for AS and BS Programs
 - Update accreditation for AS and BS Programs
 - Preliminary results
3. Update on AS Mechanical Engineering Technology Program
4. Update on BS Mechanical Engineering Technology Program
 - ENT 312 Thermodynamics / ENT 415 Heat Transfer
 - ENT 404 Mechanical Instrumentation
 - ENT 333 Comp. Methods for Eng. Tech.
 - EAS 101 / 102
 - New design course
 - Other updates
5. Recruiting Update:
 - Update on last year's efforts
 - Letters non accepted local Oxford students
 - Collaboration with Sinclair and Cincinnati State
 - Visits to local high schools
 - Local industries
 - Ideas?
6. Five Year Plan and Beyond:
 - Ways of collaborating with SEAS on students admissions
 - Workshops at Hamilton and Middletown campus
 - Presentations at Tech Challenge, college career day, etc.
 - Prompt applied research through industrial collaborations.
 - Ideas
7. Interaction with local industry and development of industrial partners
 - Training classes (software, other topics)
 - Identify faculty focus areas, local industrial needs, and promote Industry-sponsored research and senior design projects
 - Equipment acquisition
 - Collaboration with class material.
 - Guest speakers to enhance traditional teaching methods
8. New Business
9. Adjourn

Mechanical Engineering Technology AS & BS Advisory Council Minutes

Attendees:

Advisory Council Members: William Willet, Kerry Willet, Rick Albrecht, Mario Losz, Doug Cheek, Carole Scott, Andy Schumacher, James Valentine

Faculty: Ayo Abatan, Gary Drigel, Ron Earley, Vipul Ranatunga.

1. Old Business: We started our MET AS & BS concentration session at about 1:30 PM on March 28th.
2. ABET Accreditation & Program Review: Advisory council members were briefed about the pending ABET results for MET, as well as recent internal program review for the ENT department. The MET faculty thanked the students and council members for their participation and the vital role they played in the process.

3+4. Updates on Mechanical Programs:

Ron highlighted the progress with ENT 415 Heat transfer and related progress with lab exercises. Kerry presented the idea of field trip to industry for getting better exposure with practical equipment and committee discussed the logistics with such an event. Ayo mentioned that the department need to work with IAC to attract external funds (both monitory and equipment grants) to improve income to expenditure ratio.

Gary updated the council with added lab classes with ENT 404 after previous ABET visit. Carol suggested a field trip to Systecom Inc. for first-hand experience with instrumentation.

Faculty discussed the addition of new design course, ENT 417, to curriculum by absorbing some credit hours from existing courses such as ENT 333. IAC members are going to provide information on latest topics and needs of industry for a design engineer.

5. Recruiting Updates:
Discussed the faculty involvement with recruiting efforts and praised the initiatives taken by Hamilton campus in advertising the programs.
6. Five-year plan and beyond:
Discussed the SEAS five-year initiatives and strategic goals.
Vipul presented the research perspectives and academic goals such as collaborating with existing ENT-MS programs for our graduates to pursue higher education.
7. Adjourned the program session and presented the summary of things we discussed.

Electromechanical Engineering Technology (BS)

Advisory Council

Friday, March 28, 2008

1:40 – 3:40 PM

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Miami University, Hamilton, OH

1. Review minutes of the fall meeting - Dave Hergert
2. EMET response to ABET findings - Rob Speckert
3. Draft syllabus for the new Industrial Automation Lab course - Dave Hergert
4. New distance learning teaching methods and timetable for implementing online courses - Dave Hergert & Rob Speckert
5. New colleges being added as partners. Schools with articulation agreements include:
 - Zane State
 - Southern State
 - Terra Tech
 - Edison
6. Discussion of Senior Design Presentation Day on April 18, 2008.
7. Discussion of possible projects for next year's Senior Design.

Minutes of

Electromechanical Engineering Technology (BS)

Advisory Council

Friday, March 28, 2008

1:40 – 3:40 PM

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Those in attendance: Brandan Kuhl-student, Dave Hergert-Miami University, Mysore Narayanan-Miami University, Rob Speckert-Miami University, Jeff Fogelson, Ken Ekegren-North Central State, Brian Hopson, Jeff Miller, Greg Kramer, Greg Pollitt, Don Becker—technician and graduate.

Note: Due to topics covered, ECET faculty joined the EMET session.

1. Dave reviewed the minutes from the November 2007 meeting. In particular, he re-examined in some detail the changes in rubrics suggested by the council and included in the revised assessment for EMET.

2. EMET response to ABET findings—Rob had prepared a handout explaining TAC/ABET terminology. Following some explanation of terminology, we reviewed the findings of the

TAC/ABET reviewers and our response. The council was supportive of the response and reiterated their support for our assessment and continuous improvement processes. As part of this item, we discussed Transfer Assurance Guides (TAGs) approved through OBR and State of Ohio. We are obliged to follow those and use them in our articulation. We also discussed Tech Prep, PSEOP, CTAGs, and more all related to articulation.

3. Dave handed out a draft syllabus for the new Industrial Automation Lab course. We discussed the focus of the course and the specific labs to be covered. There was considerable discussion about needed lab topics. The following items were specifically noted:
 - a. Emphasize equipment use
 - b. Include mock up grounding problems
 - c. Emphasize P & I , D control
 - d. Jeff Foglesong and Jeff Miller suggested a complete controls lab course where students design and build an entire system.Dave captured detailed notes (not included here) and will make necessary changes to the syllabus before the course is submitted for approval.
4. We discussed changing our distance delivery method and using Eluminate. Brian Hopson has had courses using Eluminate and said it works quite well. There was some concern expressed that “attendance” should be mandatory even in web and distance classes otherwise students will get behind and not do well.
5. We announced that several colleges were being added as partners. Schools with articulation agreements include:
 - Zane State
 - Southern State
 - Terra Tech
 - Edison
6. Dave discussed Senior Design Presentation Day on April 18, 2008. We encouraged all to attend and recruited a couple of more judges. There was also some discussion of possible projects for next year’s Senior Design.

The meeting adjourned at 3:30 pm.
Respectively submitted by Rob Speckert

Electrical and Computer Engineering Technology (AD)

Advisory Council

Friday, March 28, 2008

1:40 – 3:40 PM

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1. Review minutes from the fall meeting.
2. Actions taken on recommendations from the fall meeting.
3. ABET Draft For Review and Comment
4. Recruiting activities
5. The first offering of the revised ENT 192. How it went, what we learned, and changes being considered.
6. How ENT 297 is going with the new material and processor.
7. General discussion, suggestions, and comments

Advisory Council Minutes - ECET

March 28, 2008

Attending were:

Industry: Jeff Fogelsong, Ken Ekegren, Brian Hopson, Jeff Miller, Greg Kramer. Greg Pollitt

Faculty: Roger Seifried, Dave Hergert, Rob Speckert, Mysore Narayanan

Student: Brendan Kuhl

ABET Review: A summary of the review and our response was reviewed.

Actions on suggestions from last meeting:

Roger visited Force Control to see what they are currently doing.

The BS program is still on hold.

Recruiting activities: We are working with local high schools with some funding from Tech Prep, to set up electrical programs in area high schools that currently have mechanical engineering programs. This involves preparing and running a course for the high school instructors at Miami-Hamilton.

Also, articulation agreements are being developed with these schools for both mechanical and electrical courses.

First offering of revised ENT 192: This is going well. The first draft of the new book is being used this semester. A final draft will be used for the summer offering that the high school teachers will be attending.

ENT 297: Students are getting a good education in the problems associated with using new technology. The hands-on building of cables, soldering and mounting of surface-mount components has been included and is going well. This was recommended in the Spring 07 Advisory Council meeting.

Prepared by: Roger Seifried