

**PURDUE SCHOOL OF ENGINEERING AND TECHNOLOGY**

**Faculty Senate Minutes**

**March 5, 2013**

Representatives in Attendance: Karen Alfrey, Sally Catlin, Lauren Christopher (alternate), Jan Cowan, Tim Diemer, Hazim El-Mounayri, Charlie Feldhaus (alternate), Patrick Gee, Dave Goodman, Marj Hovde, Alan Jones, Stephen Kim, Brian King, Feng Li, Chien-Chi Lin, Roberta Lindsey, Scott Raymond, Paul Salama, Easton Stuard, Dong Xie, Paul Yearling

Guests: Nancy Lamm, Emily McLaughlin, Dean Russomanno, John Schild, Wanda Worley

Presiding: Mark Bannatyne, Faculty Senate President

Meeting began at 11:00 a.m.

Mark Bannatyne asked everyone to look at the agenda for the meeting, and the minutes from the February 2013 meeting after there was a quorum. Copies of the minutes are not distributed at the meeting, but can be found at G:\COMMON\Senate documents in addition to being distributed to all faculty members via the E&T Faculty email at least one week prior to each Faculty Senate meeting. A motion was made to accept the February 2013 minutes; all approved. The agenda for the March 2013 meeting was approved.

**Administrative Report**

Dr. Russomanno presented the following report:

**News**

1. On-campus interviews are in progress for a tenure-track position in CIT, a tenure-track position in CGT, and a lecturer position in INTR.

**Diversity**

1. E&T is partnering with the Society for Hispanic Professional Engineers (SHPE) to offer a pre-college symposium as part of the National SHPE meeting being held in Indianapolis in November 2013. It is anticipated that over 5,000 will attend the national conference in the convention center, and up to 1,000 pre-college students will participate in the pre-college symposium to be held on the IUPUI campus. This is more than a one-time event, as our School is partnering with the key SHPE leadership to engage corporate sponsors, within Central Indiana and beyond to establish systemic initiatives to recruit, retain, and graduate more Hispanic and Latino students in STEM fields.

Planning meetings and other coordination events have already begun at IUPUI, including planning sessions at IUPUI with national leaders including Pilar Montoya, CEO of SHPE Inc.; Diana Gomez, Chairman of the Board of Directors SHPE Foundation; and Serafin Fernandez, National President SHPE National Board of Directors; Mariechelle Bonifacio, Manager, External Relations/Sponsorship, SHPE Inc.; Beatriz Garcia, Manager, National Meetings & Events, SHPE Inc.; and Ligia Matousek, Dow AgroSciences Workforce Planning & DAS Co-Chair Hispanic Latin Network. Terri Talbert-Hatch is our School's point of contact.

## **Advising**

1. E&T volunteered to participate in a pilot program in which advisors will be working with technology and best practices being advanced by the Education Advisory Board's (EAB) Student Success Collaborative (SSC). The goals of the SSC align well with the IU Roadmap initiative (including ePDP, IU-FLAGS, and Degree Achievement, a suite of integrated tools for degree exploration and planning). E&T will strongly support IUPUI efforts, being led by Dean Johnson from University College, whereby EAB will be connecting to our student data and developing a predictive model from the past ten years. It is anticipated that a system will be in place by fall 2013, which can help us more effectively and efficiently monitor and advise our students. Wanda Worley, Danny King, and Barb Christe are points of contact regarding the pilot.

## **Budget**

1. E&T's budget hearing is on March 8, 2013. Schools have been asked to reflect on enrollment and research trends over the past four years and to provide feedback to the campus regarding enrollment and research projections. The figures included at the end of this report will be used to summarize enrollment, degree production, and research trends over the past four to five years.

Although E&T has seen some significant growth, predicting significant increases in credit hour production is very difficult, especially given the upcoming 120 hour mandate, which impacts our engineering technology programs, as the majority of those programs reduced hours to meet the mandate. Also, the impact of the 30 hour common core on E&T's service course offerings is difficult to predict at this time.

For budget planning purposes, E&T has assumed relatively flat growth in undergraduate resident credit hours, with some modest growth in both undergraduate and graduate non-resident credit hours. Also, predicting future research awards and indirect cost recovery is likewise difficult given the uncertainty of the severity of the federal budget cuts to agencies such as NIH, DoE, and NSF.

Enhanced retention efforts are critical to addressing some of the budget challenges given the planning assumptions provided by campus.

*See end of this report for enrollment and research trends information from Dr. Russomanno.*

## **Discussion Items**

Tim Diemer asked if the Purdue decision to freeze rates will affect the IU tuition rates. Russomanno noted the recent initiative presented from McRobbie that if a first time IU student is on track to graduate in four years, then the tuition for the upper division years will remain the same.

John Schild questioned the loss of credit hours due to the Common Core requirement. Russomanno noted that there are two items that concern him regarding the Common Core, 1) how will the Common Core impact our service credit hours. We are fortunate in our school to have a significant service hour component in our portfolio, with TCM, OLS, and other areas; how will students respond to the Common Core with regard to taking our service hour credits, and 2) for the programs that

reduced their requirements to the 120 hour mandate, how will this hurt our credit hour production (some of these programs are on a decline with regard to degree productivity). The 120 credit hour may help the degree completion, but it is hard to know the full impact.

Mark Bannatyne asked if the school has had an update on the AO inviting President Daniels to campus. Russomanno noted he did not have an update at this time.

### **Associate Dean's Report**

Wanda Worley presented the following report. The Associate Dean's Report can be found under Attachment 1 at the end of this report.

Wanda Worley advised there is a Dean's List reception for the fall 2012 freshmen recipients on Wednesday, March 6, in the morning; the school had 293 students who made the Dean's list.

#### *Commencement:*

Commencement will be on May 12, 2013. Karen Sloan, Susie Bradley, Rob Wolter, and Courtney Wooton are coordinating commencement activities. Worley reported the following graduation numbers:

266 graduates –	December 2012
484 graduates in review -	May 2013
119 graduates in review -	August 2012

Total graduates for AY 2012-2013 is 869. This is a good number, a little higher than normal.

Seven hundred and ten students (710) qualify to actually attend commencement; we do not have certificates or minors walk. We have 3 Ph.D.'s who will attend commencement this year. They normally attend Purdue commencement but wanted to walk with us because this is where they received their degree and wanted to celebrate with our school.

#### *Common Core:*

Worley advised she recommended 33 of our courses for common core:

- 7 under Analytical Reasoning
- 17 under Arts, Humanities, & Social Sciences
- 3 under Core Communication
- 2 under Cultural Understanding
- 4 under Life & Physical Science

Worley expects that several of these courses will not be accepted, simply because some of them have pre-requisites, and as you know the Common Core courses are to have no pre-requisites. Worley also noted that we have several 300 level courses, especially in Music, but those music courses do not have pre-requisites.

The implementation and institutionalization of the Common Core will include a campus wide curriculum committee. Kathy Johnson, Dean of University College, asked those on the current task force to remain on the task force.

See <http://gened.iupui.edu> for more information.

Schools have, at this point, recommended courses that they want in the Common Core; the task force will be reviewing and voting as to whether each class should be included in the Common Core. At the beginning of April if there are discrepancies among some committee members wanting a class in the Common Core, then the task force will work through these issues. Final decisions regarding the Common Core should be made by the end of the semester, and the Common Core goes into effect fall 2013.

#### *Lunch 'N Learn:*

We have two more Lunch 'N Learn sessions. Josh Manlove presented student advocate information during the February session. Worley noted the presentation was helpful, in what to look for and how to help students who may have issues. Josh is free to come to your classes and speak to your students regarding how to resolve issues. Please contact Josh if you want him to speak to your class.

#### March Presentation

Date: Wednesday, March 20, 2013, 12:00-1:30 p.m., SL 165

Topic: How to Engage Alumni and Industry Partners in E&T Programs

Speakers: John Mainella, Jennifer Williams, Joe Abella

#### *Important Semester Dates:*

March 4: 1<sup>st</sup> 8-week classes ended

March 5: 2<sup>nd</sup> 8-week classes begin ("Monday only" classes begin March 18)

March 6: Midterm

March 11-17: Spring Break – if teaching a weekend class, will still have class March 9 and 10.

For more information, visit: [www.registrar.iupui.edu](http://www.registrar.iupui.edu)

#### *Reminders:*

- ENT programs are preparing self-studies for their ABET visit this fall, which are due July 1, 2013, to ABET.
- Make sure your program requirements and course descriptions on the website match the official 2012-2014 E&T Bulletin and make sure both the bulletin and website match the official course descriptions in SIS, which means they have gone through our School and Campus approval process and now appear in SIS.
- The 120 credit mandate goes into effect this fall – Worley urged faculty if you need to make any changes to your program, any courses that need to be updated in any way, try to get those through the approval process this semester. Worley urged faculty not to publish new plans of study until the Common Core is determined. If you feel you must publish any new plans of study prior to this, please note that it is still in review and it is not final.
- Dr. Russomanno advised the school will have a honorary doctorate during commencement. Dr. Chris Stout has a Ph.D. in psychology, an A.S. in Architecture and a B.S. in Psychology from the School of Science. He was our nominee for the honorary doctorate in Technology. The school went through the formal process and Dr. Stout was approved by the Purdue Board of

Trustees. He was the first to endow a RISE scholarship in our school as well. He has established a school in Africa and is a true humanitarian.

*Discussion:*

John Schild asked whether the school will be assessing whether these Common Core courses will meet our needs. Worley advised she has done a lot of lobbying with the School of Science. Worley reported that many of the courses we require from the School of Science have been recommended to be in the Common Core. Schild noted in working with transfer students in BME that he has had universal trouble insuring that they are prepared for the course work they are receiving in their sophomore and junior year.

Worley noted that the school plans on publishing a document that explains clearly that engineering degree programs require certain levels of courses, and if they go through the Common Core and choose the lowest level, they will not be able to complete an engineering degree in 120 credits. Worley advised we have to accept the Common Core as being finished, no matter where they transfer from. However, we do not have to accept that it fulfills our program requirements. If students come in with the Common Core fulfilled with low-end courses, and they go into engineering, the student may have to take an additional 15-20 credits to fulfill the program requirements. Karen Alfrey has started a draft of this document; Worley advised they will make sure they disseminate to every advisor in the school to make sure they advise students if they are going into engineering in particular, that they need to take certain classes to fulfill the Common Core and which courses to take, that will help the transition into engineering be smoother.

Dr. Russomanno noted that with regard to the Common Core, a course maps to some course on this campus, but it may not map to our curriculum. Common Core to most places means that if you take the Common Core you are assured that those 30 hours apply to every degree program offered by the campus that accepts the Common Core. Russomanno does not believe we are interpreting it this way on this campus.

Common Core will be announced near the end of April or early May.

**Associate Dean for Research and Graduate Programs** – No Report

Razi Nalim was unable to attend the Faculty Senate meeting.

**Budgetary Affairs Committee** - No Report

**Computing Resources Committee (CRC)** – No Report

**Constitution and Bylaws Committee** – No Report

**Graduate Education Committee**

John Schild presented two course requests that the Graduate Education Committee reviewed.

ECE 69401- ECE Graduate Seminar (0 Credits) - requires graduate standing and department approval.

OLS 51500 - Foundations of HR Development (3 Credits) – graduate standing or instructor approval.

These are presented for information purposes only.

**Grievance Board** – No Report

**Faculty Affairs Committee** – No Report

**Nominations**

Emily McLaughlin thanked everyone for their participation in forwarding names for committee assignments for the coming year. McLaughlin advised the Nominations Committee is on schedule. The committee has two assignments yet to fill. The committee is looking for the president-elect position to be filled. Typically, as a professional courtesy the technology and engineering sides alternate every two years in this position. The president-elect position falls on the technology side at this time. Please take this message back to your department and advise your faculty that Nominations still needs this position filled.

Nominations Committee is also looking for names from the Engineering side for Unit Promotion and Tenure board. Please let your chair and faculty members know about this position also. McLaughlin is in discussions with your chair as well regarding these positions.

McLaughlin advised the voting website will be open the week after spring break. The results will be reported during the April Faculty Senate meeting, and committee chair positions will be voted on during the April meeting also.

**Resource Policy Committee** – No Report

**Student Affairs Committee** – No Report

**Undergraduate Education Committee**

Nancy Lamm reported on the following items from the Undergraduate Education Committee.

*Course Change Requests:*

ME 27200 – Mechanics of Materials (change in credit hours from 4 to 3 and course description)

ME 37200 – Mechanical Design II (change in credit hours from 4 to 3 and course description)

These courses will be reduced from 4.0 to 3.0 credits by removing the lab requirements from each course. The Mechanical Engineering Department is making a new lab course that consists of experiments from each course that will be 1.0 credit. This will help reduce the credit hours by required by 1.0 credit. The course description change removes the reference to the laboratory. There was a stipulation regarding these course changes that Mechanical Engineering work with Motorsports regarding these course changes; Motorsports requires ME 27200 for their students. The Undergraduate Education Committee recommends approval of these two course changes.

**Faculty Senate unanimously approved the ME 27200 and ME 37200 course change requests.**

*Graduation Requirements as noted in Bulletin:*

The Undergraduate Education Committee proposes a change in Item 3 of the requirements for graduation as listed in the campus bulletin.

Current policy (for both engineering and technology) states:

3. Students must be registered in the School of Engineering and Technology, either in residence or in absentia, during the semester or summer session immediately preceding the awarding of the degree.

The committee did some research from previous bulletins and it appears that this was a shortened format of a previous requirement that said that students must be registered for candidacy in the School of Engineering and Technology either in residence or absentia; you may recall the school previously required undergraduate students to enroll in a Candidacy 991 course, which originated from a Purdue requirement. This candidacy course is no longer required for undergraduate students. This has caused some problems for the recorder. The Undergraduate Education Committee has proposed the following change in wording, which would have a two semester cushion. Lamm noted that sometimes students just forget to apply for graduation.

Proposed item 3:

2. Students must be in active student status in the School of Engineering and Technology in order to have the degree awarded.

A student is in active status for two semesters (not counting summer) following their last semester of enrollment.

Marj Hovde asked if a student is out and becomes inactive, how hard is it to be in active status. Lamm advised the student would have to go through the [www.returnto.iupui.edu](http://www.returnto.iupui.edu) mechanism and then be re-activated.

**Faculty Senate unanimously approved the Graduation Requirement as noted in the school bulletin.**

The lists of requirements for graduation for engineering and technology undergraduate degrees may be found on pages 44 and 45 of the campus bulletin: <http://www.iupui.edu/~bulletin/iupui/2010-2012/schools/purdue-enginer-tech/index-pdf.pdf>

Course documents may be found at G:\COMMON\NEW\_COURSES\_UNDERGRADUATE\YR2012-13\February 2013.

**IUPUI Faculty Council**

Mark Bannatyne advised the IUPUI Faculty Council was meeting later today; he will present the March report during the April meeting.

*For details on IUPUI Faculty Council meetings and meeting minutes, please look at their website: [www.iupui.edu/~fcouncil](http://www.iupui.edu/~fcouncil).*

**Purdue Intercampus Faculty**

Marj Hovde advised that Purdue Intercampus Faculty Council has been working on the Purdue System Plan. ICHE advised Purdue they want them to work like a system, so they could interact with their regional campuses better. Hovde noted the working groups are trying to quickly work on this plan. Hovde advised there is a partial draft she will send out later today for the Purdue System Plan to get your feedback. Areas to look at on the document are: 1) Mission and Operating Principles, 2) Graduate Education, 3) Quality of Education - Courses, and 4) Quality of Education - Assessment. Purdue Intercampus Faculty hopes to have additional sections available later this week; Hovde will send those out once she receives them. There is an email at the end of each section to send comments to, which are due March 14. Hovde also requested that you copy her on any comments also. Revisions will be made

and they will begin using this plan starting spring/summer. There are a lot of changes proposed in the graduate section.

Dr. Russomanno advised that Ed Berbari and Jeffrey Watt are our campus representatives. Several others are on different working groups. Hovde noted that we are not technically a regional campus; some items that are at campus level may not pertain to us; course and degree level information may pertain to us.

The next meeting will be in Calumet on April 12; Hovde is hoping to arrange a meeting on our campus in the future.

### **Purdue Faculty Senate**

Marj Hovde advised that Purdue Faculty Senate met on February 18<sup>th</sup>, and will meet again on March 18<sup>th</sup>. Most of the issues were concerned with West Lafayette such as Honors College and student success.

### **Old Business** – No Report

### **New Business**

Mark Bannatyne reminded everyone to be mindful of the weather situation and follow updates from Purdue.

April – elections – will be online after spring break, remind the faculty in your department to vote.

The meeting ended at 11:45 a.m. The next Faculty Senate meeting will be Tuesday, April 9, 2013, 11:00 a.m. in SL 165.

**Faculty Senate Report from Associate  
Dean  
for Academic Affairs and  
Undergraduate Programs for  
March 5, 2013  
Submitted by Wanda L.  
Worley**

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**1. COMMENCEMENT**

Commencement will be on Mother's Day, May 12, this year. Karen Sloan, Susie Bradley, Rob Wolter, and Courtney Wooton are coordinating the activities; more details to come.

**2. TRANSFERABLE COMMON CORE CURRICULUM AT IUPUI**

As you know, the Common Core curriculum at IUPUI will take effect fall 2013. I recommended 33 of our courses for the Common Core: 7 under Analytical Reasoning; 17 under Arts, Humanities, & Social Sciences; 3 under Core Communication; 2 under Cultural Understanding; and 4 under Life & Physical Science. I expect several of these courses will not make the cut (some are 300 level; some have prerequisites). The Campus Task Force (I represent E&T) is currently reviewing and voting on the approximately 300 courses recommended. In early April, the Task Force will gather to iron out any disagreements on the recommended courses. Final decision is scheduled by the end of this semester.

Implementation and institutionalization of the Common Core will include a campus-wide curriculum committee that will oversee the continued integrity of the Core as new courses are added to programs on campus. Members of the current Task Force have been asked to continue in this new role.

If you have questions, let me know. See <http://gened.iupui.edu> for more information.

**3. LUNCH 'N LEARN PROFESSIONAL DEVELOPMENT SERIES**

Josh Manlove, student advocate coordinator, Office of Educational Partnerships and Student Advocacy, Division of Student Life, gave a highly relevant presentation in February on how the Student Advocate Office works with students and faculty. If you'd like Josh to visit your classes, you can reach him at (317) 278-7594, [stuadvoc@iupui.edu](mailto:stuadvoc@iupui.edu).

This month's program is on Wednesday, March 20, the week after Spring Break. As always, we ask that a representative from each program attend the presentation.

Please RSVP by noon on Friday, March 15, to Susie Bradley ([susibrad@iupui.edu](mailto:susibrad@iupui.edu)) so we can order the correct number of lunches.

#### March Presentation:

- Date: Wednesday, March 20, 2013, Noon-1:30 p.m., SL 165
- Topic: How to Engage Alumni and Industry Partners in E&T Programs
- Speakers: John Mainella, assistant dean for development & external affairs; Jennifer Williams, career services director; and Joe Abella, director of industry relations
- Description: *Our students have their diploma ... now what? Studies prove that alumni and industry contributions are directly correlated to their involvement in the school and interest in what we have to offer! Let's talk about ways to connect and keep connected new industry partners and our young alumni and ways to reengage our more "seasoned" industry partners and alumni.*

#### **4. IMPORTANT SEMESTER DATES**

- March 4: 1<sup>st</sup> 8-week classes ended
- March 5: 2<sup>nd</sup> 8-week classes begin ("Monday only" classes begin March 18)
- March 6: Midterm
- March 11-17: Spring Break
  
- Priority registration appointments are available online via OneStart for students enrolled in spring 2013.
- Open enrollment begins March 30 for summer and fall 2013.
- Summer and fall 2013 course offerings are now available online.

For more information, visit [www.registrar.iupui.edu](http://www.registrar.iupui.edu).

#### **REMINDERS**

##### **5. ABET VISIT**

The Engineering Technology (ENT) programs are preparing their self-studies to be submitted July 1, 2013. The ABET evaluators will be visiting our School this fall, probably in October. More to come.

## **6. IMPORTANT ADVICE**

Program requirements and course descriptions on our website must match the official *2012-14 E&T School Bulletin*. Course descriptions on both the website and the *School Bulletin* must match the official course descriptions that have gone through our School and Campus approval process and now appear in SIS.

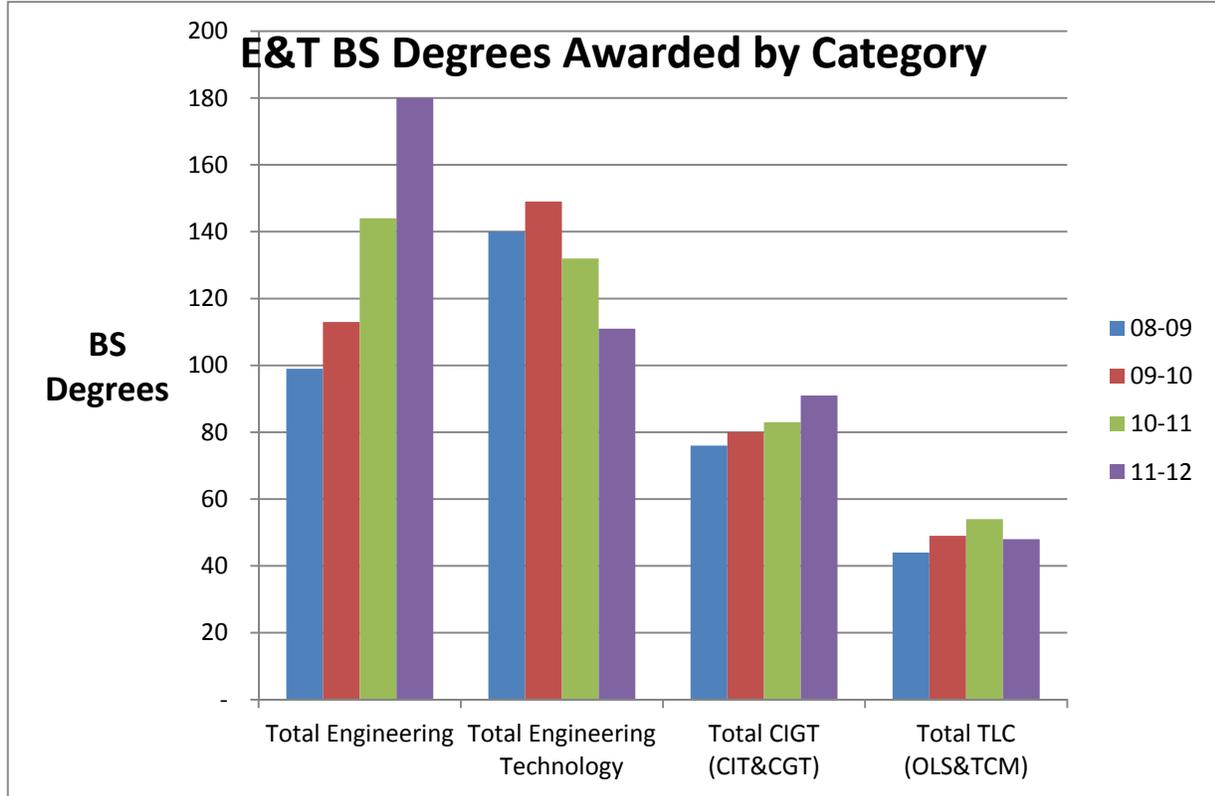


Figure 1. E&T BS degrees awarded by category.

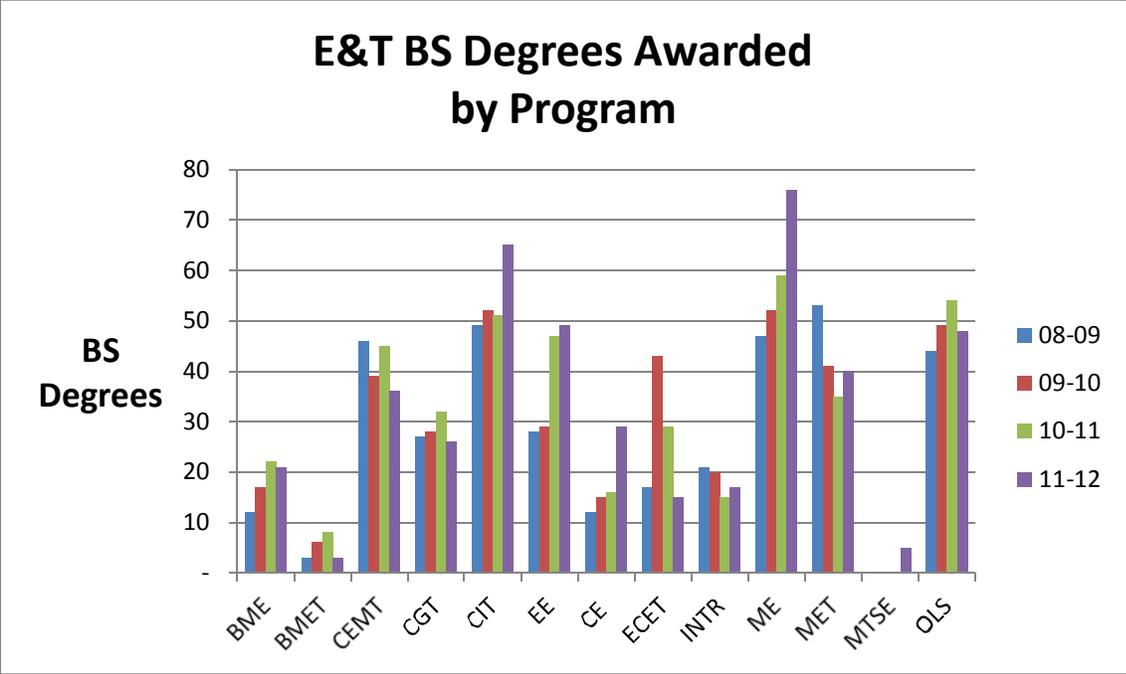
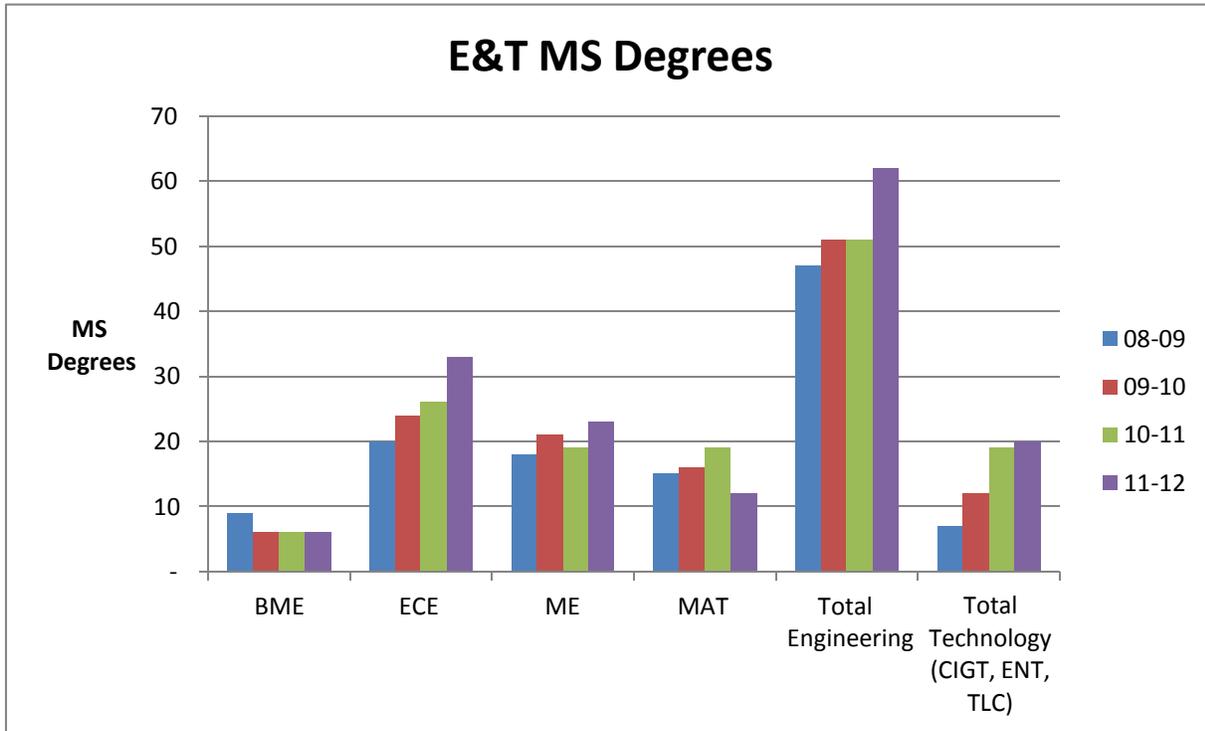
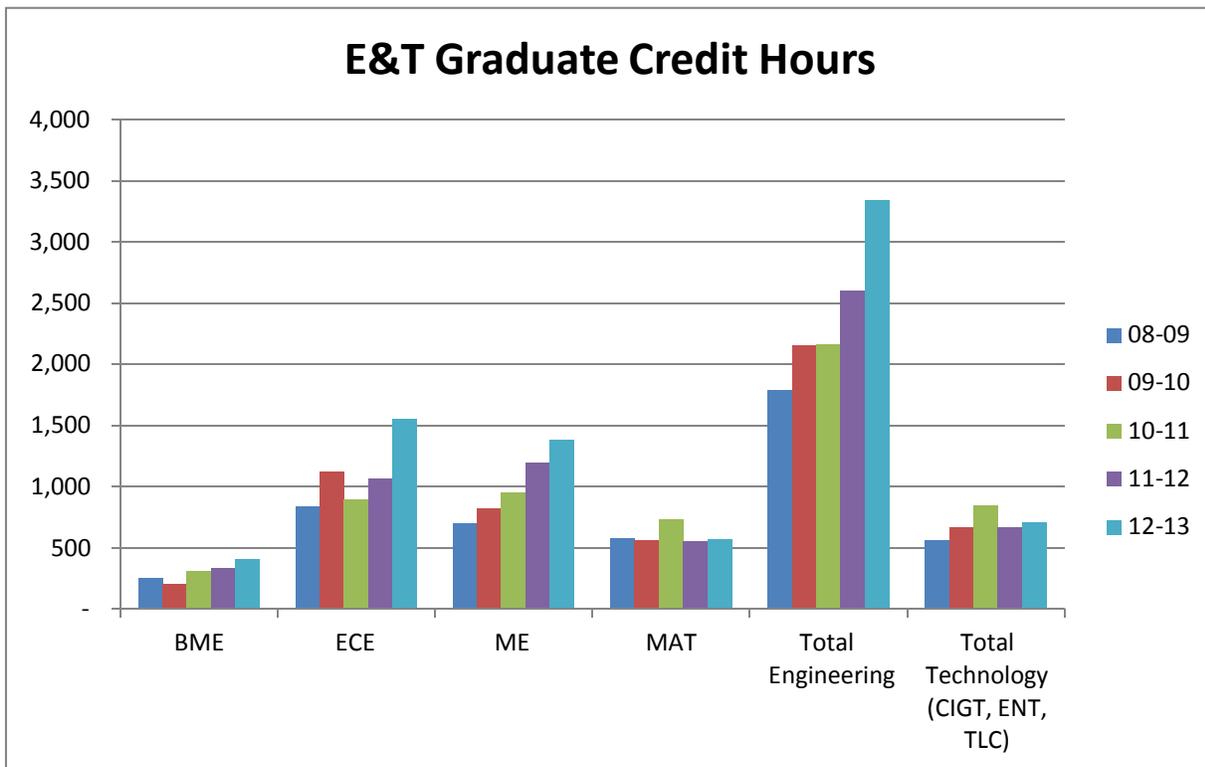


Figure 2. E&T BS degrees awarded by program.



**Figure 3.** E&T MS degrees (excludes PhDs granted by PUWL).



**Figure 4.** E&T graduate credit hours.

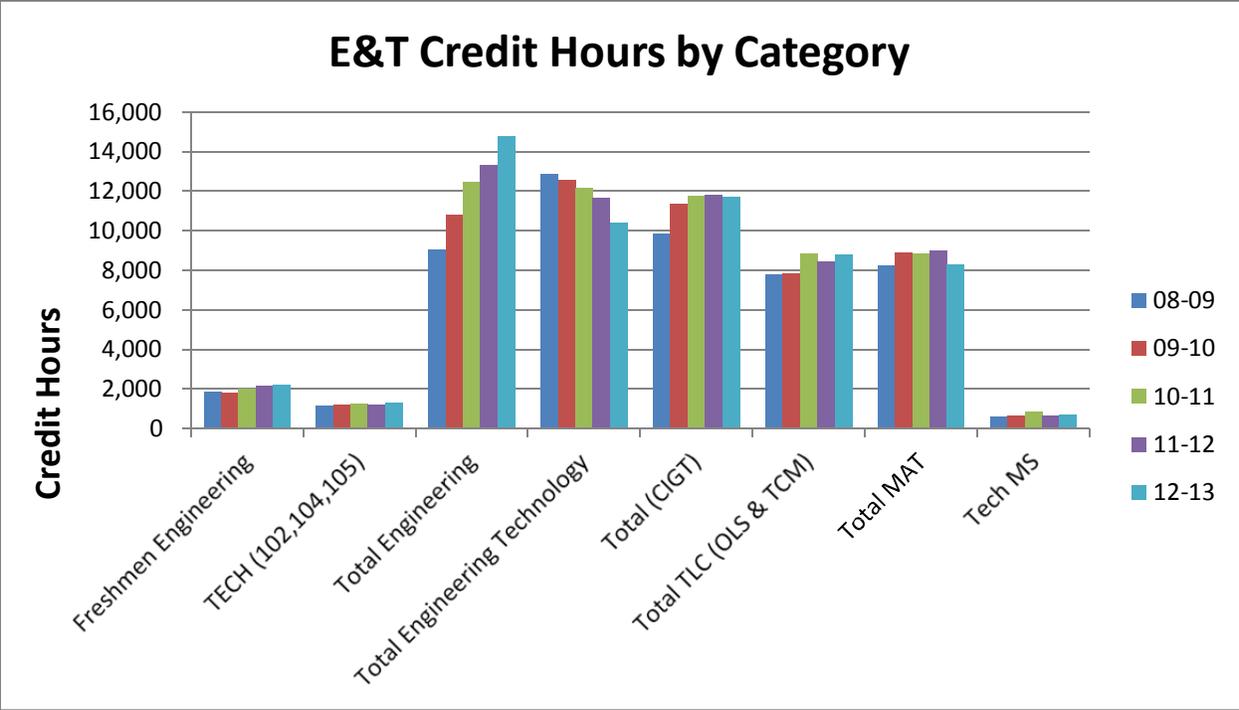


Figure 5. E&T total credit hours by category.

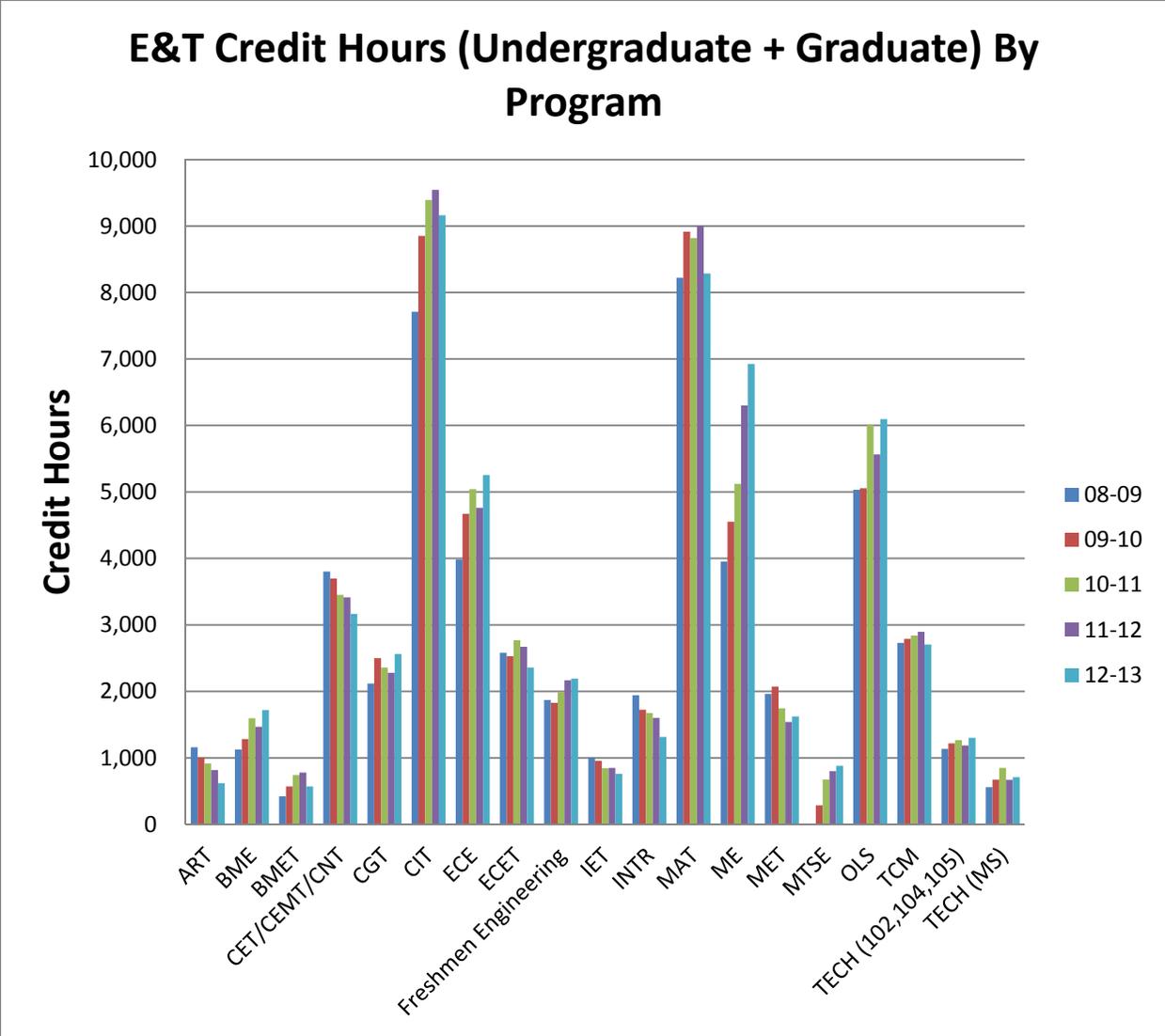


Figure 6. E&T total credit hours by program.

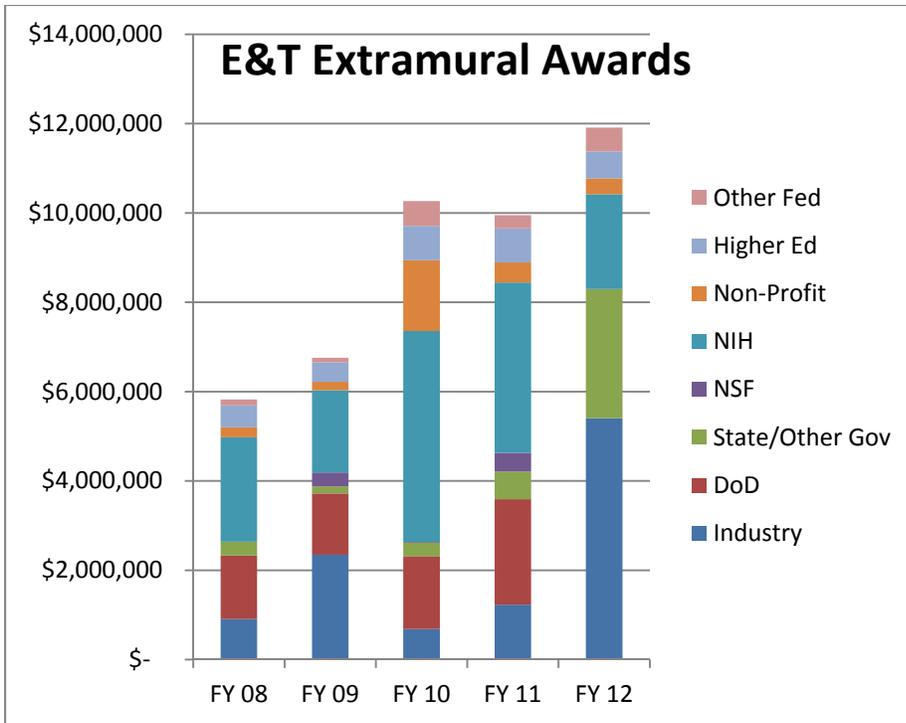


Figure 7. E&T extramural awards.

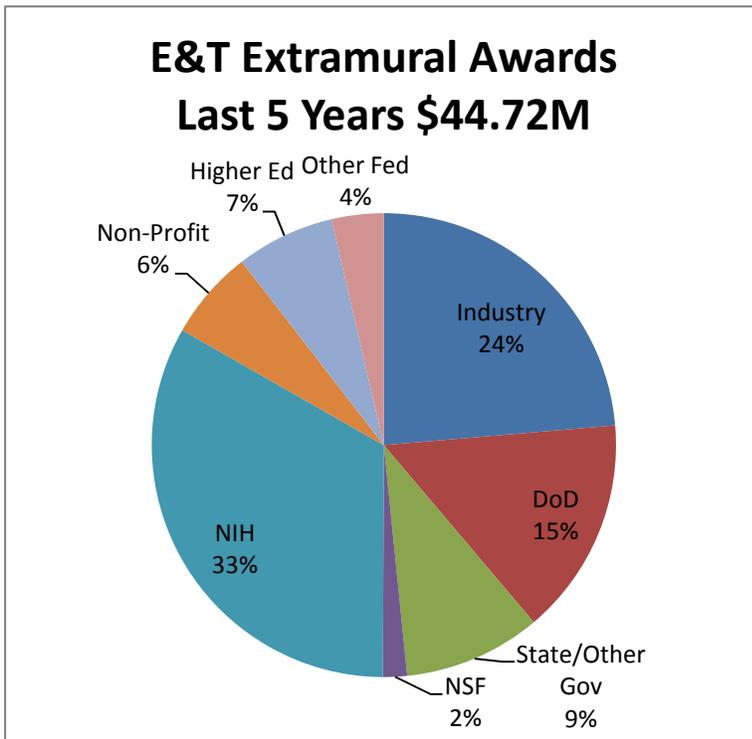


Figure 8. E&T extramural awards by sponsor.