

THE UNIVERSITY OF WISCONSIN-MILWAUKEE  
College of Engineering and Applied Science

FACULTY MEETING

Friday, December 7, 2018 10:30 A.M. EMS E180

AGENDA

**I. DEAN UPDATE**

**II. ANNOUNCEMENTS**

- A. Research Support Survey – David Yu
- B. Update on Male Allies Project – Nadya Fouad and Ethan Munson

**III. INFORMAL REPORTS – See Attachment 1**

- A. Opportunity for questions regarding Informal Reports

**IV. DETERMINATION OF THE PRESENCE OF A QUORUM FOR FACULTY MEETING**

**V. AUTOMATIC CONSENT BUSINESS**

- A. Minutes of the November 2, 2018 meeting
- B. New Course – See Attachment 2
- C. Graduation

*"The faculty recommends to the Board of Regents those students whose names are submitted by the Office of the Registrar as having completed the requirements for the degree of Bachelor of Science in their respective majors."*

**VI. NEW BUSINESS**

- A. Ph.D. Transcript Designation – See Attachment 3

**VII. GENERAL DISCUSSION**

**VIII. ADJOURNMENT**

John R. Reisel, Secretary  
CEAS Faculty

JRR  
Attachments

INFORMAL REPORTS

Office of Student Services – Todd Johnson

See the Fall enrollment numbers on the following page.

Career Services – Juli Pickering

No Report

Curriculum Committee – Prof. A. Rahman

The Curriculum Committee initiated a discussion of the feasibility and the potential benefits to consider offering an accelerated-sequential in a 7-week format during regular semesters and summer sessions. This format will be targeting outstanding students who are interested in early graduation and a rewarding and challenging honors educational experience in a small class setting.

Departments are encouraged to initiate such a discussion and identify core courses that can be suitable for such a model. The goal of such initiative is to improve the average overall graduation rate in CEAS, and to improve recruiting of outstanding students from area high schools who might overlook UWM for another school. This group of students can see the value in an engineering honors program, and transcript designation that can place them at an advantage for future employment.

Graduate Program Subcommittee – Prof. Liao

No Report

Academic Planning Committee – Prof. Abu-Zahra

APC will be conducting its departments and programs assessment in its December 14<sup>th</sup> meeting. Department chairs are expected to provide their self-assessment reports to APC chair by November 27<sup>th</sup>. Meanwhile, APC continues to discuss the new campus financial model and its implications on CEAS operating budgets and department allocations with Dean Peters. Finally, APC will be electing a new chair for the remainder of 2018/2019 in its December meeting.

Faculty Senate – Prof. Reisel

The Senate passed revisions to a number of committee charters to facilitate participation of the Division of General Studies on those committees. In addition, procedures for allowing remote distance participation by Senators from the College of General Studies were approved.

**College of Engineering & Applied Science  
Headcount Enrollment by Year-in-School  
Fall Semester 2012-2018**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>UGRD</b>	<b>1,632</b>	<b>1,596</b>	<b>1,751</b>	<b>1,792</b>	<b>1,825</b>	<b>1,906</b>	<b>1,915</b>
Freshmen	306	240	273	276	262	279	305
Sophomore	357	315	295	323	375	378	363
Junior	289	338	348	345	344	398	362
Senior	668	684	742	807	835	845	881
Special	12	19	93	41	9	6	4
<b>GRAD</b>	<b>404</b>	<b>420</b>	<b>448</b>	<b>449</b>	<b>442</b>	<b>428</b>	<b>408</b>
Master	185	206	213	234	223	202	195
Doctoral	209	193	210	201	205	212	200
Non-Degree	10	21	25	14	14	14	13
<b>Grand Total</b>	<b>2,036</b>	<b>2,016</b>	<b>2,199</b>	<b>2,241</b>	<b>2,267</b>	<b>2,334</b>	<b>2,323</b>

**College of Engineering & Applied Science  
Headcount Enrollment by Program  
Fall Semester 2012-2018**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>UGRD</b>	<b>1,632</b>	<b>1,596</b>	<b>1,751</b>	<b>1,792</b>	<b>1,825</b>	<b>1,906</b>	<b>1,915</b>
Applied Computing						1	24
Biomedical Engineering					44	88	131
Civil Engineering	294	277	261	250	254	273	302
Computer Engineering	122	102	102	120	113	109	97
Computer Science	221	208	222	252	312	372	387
Electrical Engineering	252	249	280	271	262	236	228
Industrial Engineering	86	95	100	90	96	96	95
Materials Engineering	35	45	59	56	58	58	55
Mechanical Engineering	525	532	570	640	609	612	547
Undeclared	97	88	157	113	77	61	49
<b>GRAD</b>	<b>404</b>	<b>420</b>	<b>448</b>	<b>449</b>	<b>442</b>	<b>428</b>	<b>408</b>
Biomedical Informatics PhD	24	23	26	21	22	21	21
Computer Science MS	50	47	55	64	52	47	52
Engineering MS	135	159	158	170	171	155	143
Engineering PhD	185	170	184	180	183	191	179
Non Degree	10	21	25	14	14	14	13
<b>Grand Total</b>	<b>2,036</b>	<b>2,016</b>	<b>2,199</b>	<b>2,241</b>	<b>2,267</b>	<b>2,334</b>	<b>2,323</b>

Source: UWM Office of Assessment and Institutional Research

Comparison of Enrollment Dashboard: Annual Final Report

<https://uwm.edu/institutional-research/report-enrollment-comparison-of-enrollment/>

## ATTACHMENT 2

### NEW COURSE

COMPSCI 745

HEALTH BIG DATA PROCESSING PLATFORMS, 3 cr. G

Study of big data processing techniques in healthcare. Jointly offered and counts as a repeat of HCA 745

Prereq: HCA 741(P) or CompSt 751; Grad St or cons instr

Ph.D. in Engineering Program

Proposal to Make All Majors Areas of Concentration Transcript-Designated  
Approved by CEAS GPSC on October 24, 2018

Action Requested

The Ph.D. in Engineering program has several “major areas of concentration”, corresponding to the departments and department-like bodies of CEAS. Under UWM policy, these major areas of concentration are one of the many types of submajors found in UWM's graduate degree programs and they are not currently transcript-designated.

The CEAS Faculty now request that all major areas of concentration of the Ph.D. in Engineering be made transcript-designated.

Compelling reasons for transcript designation

Due to the diverse technical areas in engineering and common practice by most engineering institutions in the US, it is important that an area of major concentration be listed in a student's academic records. This will describe the student's background better and will enhance employment opportunities for the student. Transcript designation also allows UWM to configure its graduate application system so that students apply to the specific concentration, which is good for attracting applicants and allows better tracking of students in UWM's student information systems.