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

FACULTY MEETING

Friday, October 4, 2019 10:30 a.m. EMS E180

MINUTES

The meeting was called to order at 10:30 a.m. with Dean Brett Peters presiding.

- PRESENT: Professors Abu-Zahra, Amano, Armstrong, Avdeev, Boyland, Bravo, Church, Cuzner, Dhingra, D'Souza, Dumitrescu, El-Hajjar, Ghorbanpoor, Goyal, Graettinger, Hanson, Helwany, Hosseini, Hu, Jang, Kouklin, Law, Liao, Liu, Mali, Misra, Munson, Niu, Nosonovsky, Otieno, Patrick, Petering, Peters, Pillai, Priyatha, Qu, A.Rahman, M.Rahman, Ranji, Reisel, Rohatgi, Salowitz, Seifoddini, Sobolev, Stern, Sung, Suzuki, L.Wang, W.Wang, Y.Wang, Xu, D.Yu, J.Yu, Z.Yu, Zhang, J.Zhao, T.Zhao
- EXCUSED: Professors Cheng, McRoy, Qin, Titi, Venugopalan
- GUESTS: S. Aylesworth, J. Broskowski, J. Goodman, J. Opitz
- I. DEAN UPDATE See Attachment 1

During the last year, Professors Qin, Stern, and Titi were promoted to professor. Additionally, several faculty were recognized for receiving positive post-tenure reviews.

The university's primary points of emphasis continue to be Student Success, Research Excellence, and Community Engagement.

CEAS needs to give thought to how to move forward to become a Top-100 Engineering college. Big Goals of \$25 million in annual research expenditures and producing 525 BS graduates from CEAS each year (with a 70+% 6-year graduation rate) were proposed and discussion on these goals is welcome.

To achieve these goals, considerable thought and planning on the curricula in the college is needed, as well as new plans on how to grow the size of the faculty and increase collaboration between faculty to generate more external research funding.

Increasing the challenges associated with reaching these goals are budget realities, including an expected 5% decrease in UWM's budget in FY21, the need of CEAS to cover 30% of the expected pay increases, and the implementation of the new budget model which currently requires CEAS to be supported by other units on campus through budget adjustments. Furthermore, the ability to carry forward cost savings from one year for use in future years has mostly ended. More positive budget impacts are likely to be seen with the UW System Freshwater Collaboration, the outcomes-based funding approved by the legislature's JFC, and \$500,000 in funds to plan for a new engineering building.

II. INTRODUCTIONS

A. Faculty

- 1. Andrew Graettinger, Associate Dean for Research, Professor, CEE
- 2. Priyatha Premnath, Assistant Professor, Biomedical Engineering
- 3. Jacob Rammer, Assistant Professor, Biomedical Engineering

B. Staff

- 1. Steven Anderson, Academic Support and Retention Coordinator
- 2. Michelle Boehm, Marketing Specialist and Event Coordinator

III. ANNOUNCEMENTS

A. Development Update - Jean Opitz

The UWM Comprehensive Campaign has ended, with a total of \$251.5M raised from 21,000 donors.

In CEAS, \$16.5M was raised for CEAS and \$3.85M for the Connected Systems Institute.

There were 1156 donors to CEAS, with 83% of the total gifts being from alumni and other individuals. Regarding the value of the gifts, 43% of the amount donated was from corporations and 31% from alumni.

In CEAS, roughly 50% of the funds were for student success, and 50% for research.

B. UITS - Multi-factor authentication - John Goodman

Faculty and staff should enroll in multi-factor authentication by October 31.

C. Accessibility Resource Center (ARC) – Jonathan Broskowski and Shannon Aylesworth

Federal law requires that universities provide reasonable accommodations to students with physical or mental impairments that limit their ability to engage in major life activities.

Accommodations provided include altering the environment, curriculum formatting, and providing equipment and assisting technologies.

Students need to self-identify with the ARC, and then provide documentation of a diagnosis, have an interactive meeting with a counselor, and then need to have an interactive meeting between the student and the instructor.

Generally, instructors will see accommodations such as additional time for exams and note takers.

Accessibility training is available for instructors through the ARC website.

D. New CEAS Millionaires Club Members

Profs. Lingfeng Wang and Robert Cuzner were welcomed into the Millionaires Club.

E. CEAS Award Recipients

Outstanding Teaching Award for the 2018-2019 Academic Year: Iftekharuddin Khan

Outstanding Faculty Research Award for the 2018-2019 Academic Year: Junjie Niu

IV. INFORMAL REPORTS – See Attachment 2

V. DETERMINATION OF THE PRESENCE OF A QUORUM FOR FACULTY MEETING

As 56 voting faculty members were present, a quorum was present.

VI. AUTOMATIC CONSENT BUSINESS

- A. Minutes of the April 26, 2019 Meeting
- B. New Courses See Attachment 3
- C. Computer Engineering Program Change See Attachment 4

VII. NEW BUSINESS

A. Integrated BS/MS Program Change – See Attachment 5

CEAS FAC.DOC. NO. 261

Prof. Suzuki moved the Program Change for the Integrated BS/MS Program.

Prof. J. Zhao moved to amend the motion to allow up to 15 double-counted Credits, and that "The remainder (3-15 credits) may be backward-counted.

The motion to amend was seconded, and failed on a vote of 14-18.

The original motion passed on a voice vote.

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B.	Doctoral Program Committee Change – See Attachment 6	CEAS FAC.DOC. NO. 262
	Prof. Suzuki moved to accept the proposed doctoral program committee change.	

The motion passed on a voice vote.

VIII. GENERAL DISCUSSION - None

X. ADJOURNMENT

Meeting Adjourned at 12:11 p.m.

John R. Reisel, Secretary CEAS Faculty

JRR Attachments





























INFORMAL REPORTS

<u>Office of Student Services</u> – Todd Johnson No Report

<u>Career Services</u> – Juli Pickering No Report

<u>Curriculum Committee</u> – Prof. A. Rahman No Report

<u>Graduate Program Subcommittee</u> – Prof. Suzuki No Report

<u>Academic Planning Committee</u> – Prof. ? No Report

Faculty Senate – Prof. Reisel

Following the Chancellor's Plenary Address, the Senate conducted mostly routine business. The primary item of business was the modification of the Post Tenure Review policy. The modifications concentrated on clarifying the document in various areas, specifying a final responsible party for the creation of remediation plans, and specifically integrating the unit's review criteria into the review process.

ATTACHMENT 3

NEW COURSES

BME 437	INTRODUCTION TO BIOMEDICAL IMAGING, 3 cr., U/G Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques. BME 437/ELECENG 437 are jointly offered and count as repeats of each other. Prereq: sr st, BME 310 (P) or ELECENG 310 (P)
BME 439	INTRODUCTION TO BIOMEDICAL OPTICS, 3 cr, U/G Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT. BME439/ELECENG 439 are jointly offered and count as repeats of each other. Prereq: sr st, BME 310 (P) or ELECENG 310 (P)
ELECENG 437	INTRODUCTION TO BIOMEDICAL IMAGING, 3 cr., U/G Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques. BME 437/ELECENG 437 are jointly offered and count as repeats of each other. Prereq: sr st, BME 310 (P) or ELECENG 310 (P)
ELECENG 439	INTRODUCTION TO BIOMEDICAL OPTICS, 3 cr, U/G Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT. BME439/ELECENG 439 are jointly offered and count as repeats of each other. Prereq: sr st, BME 310 (P) or ELECENG 310 (P)

COMPUTER ENGINEERING PROGRAM CHANGES

The following are the program changes for the Computer Engineering BS program:

- 1) Set total number of credits to 120.
- 2) Remove CompSci 240 and MechEng 101 and CompSci 469 from the list of required courses.
- 3) Add CompSci 469 to the technical elective group A.

ATTACHMENT 5

INTEGRATED BS/MS PROGRAM CHANGE

Motion: That the BS/MS program be changed to allow up to 9 double-counted credits, of which no more than 6 can be forward-counted. The remainder (3-9 credits) can be backward-counted.

------ Original Catalog Text ------

Admission

An Integrated BS-MS program is available for exceptional undergraduate students. In this program, students take 6 graduate credits while completing the BS degree.

Minimum admission requirements:

- 3.2 GPA.
- 36 credits or less remaining for the BS.
- Approval from their major department.

------ Proposed Catalog Text ------

Admission

An Integrated BS-MS program is available for exceptional undergraduate students. In this program, students may take up to 9 credits that count in both the BS degree and the MS degree. Up to 6 graduate credits may be taken while completing the BS degree. For the remaining 3-9 credits, students may be admitted to the MS program prior to completing the BS degree, in accordance with UWM Graduate School rules.

Minimum admission requirements:

• 3.2 GPA.

• 36 credits or less remaining for the BS when enrolling in graduate credits during BS studies, and

• 3-9 credits or less remaining for the BS at the time of admission to the MS program, depending on the number of double-counting credits that will be taken during the MS.

• Approval from their major department.

DOCTORAL PROGRAM COMMITTEE CHANGE

------ Original Catalog Language ------

Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from another area). The member from another area may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

------ Proposed Catalog Language ------

Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.