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

F A C U L T Y   M E E T I N G

Friday, September 29, 2017   1:30 P.M.   EMS E180

A G E N D A

I.   ANNOUNCEMENTS

    A. UWM Gives to UWM Campaign – Jean Opitz

    B. Intellectual Property – Audrey Salazar

II.   INTRODUCTIONS

    A. Faculty

        1. Zhi Zheng, Assistant Professor, Biomedical Engineering

III.   INFORMAL REPORTS – See Attachment 1

    A. Opportunity for questions regarding Informal Reports

IV.   AUTOMATIC CONSENT BUSINESS

    A.   New Courses and Course Changes – See Attachment 2

    B. Materials Engineering Curriculum Changes – See Attachment 3

    C. Electrical Engineering Curriculum Changes – See Attachment 4

V.   NEW BUSINESS

    A. Topic for Discussion – Smartphone Use in Exams

    B. CEAS Update from Dean Peters

VII. GENERAL GOOD AND WELFARE

VIII. ADJOURNMENT

                                John R. Reisel, Secretary
                                CEAS Faculty

JRR
Attachments

INFORMAL REPORTS

Office of Student Services – Todd Johnson
Here are some CEAS Fall 2017(preliminary) enrollment highlights:

Undergraduate

New Freshmen	234	+ 13%
New Transfer	153	+12.5%
Total	1860	+ 4.9%

Graduate

New Masters	63	-13.7%
New Doctoral	29	+ 3.6%
Total	430	-2.5%

More detailed preliminary summaries for CEAS and the campus can be found on the following pages.

Career Services – Juli Pickering
No Report

Curriculum Committee – Prof. Church
No Report

Graduate Program Subcommittee –
No Report

Academic Planning Committee – Prof. Misra

APC met three times since last informal report and the following is a summary of the actions.
• APC received updates from Dean Peters on the SPC budget reductions as well as on the current spending status of instructional budget allocated to each program.
• Assistant Dean Klajbor presented a report on the status of research investments and its returns.
• APC received evaluation reports of CEAS administrators (Dean and Associate Deans) from the SSEA and reviewed them with Dean Peters. Committee asked Dean Peters to provide his plans to address the issues raised in those reports.
• APC continues discussions to formulate the process and metrics for assessment of academic programs and evaluation of departments.

Biomedical and Health Informatics – Prof. McRoy
No Report

Faculty Senate – Prof. Boyland

Will be submitted after the Sept. 28 Faculty Senate meeting

University of Wisconsin--Milwaukee

Comparison of Enrollments to Date

Student Limits Set: CEAS
Course Limits Set:

| | | | | Fall 2017 | | | | | |
| | | | | September 18, 2017 | | | | | |
				Prior Year To Date HC	Current Year To Date HC	Differ-ence	% Differ-ence	Prior Year Final HC	Ratio: Prior Year To Date / Final
CEAS	UGRD	New Freshmen	Freshman	196	218	22	11.2%	196	100.0%
			Sophomore	11	15	4	36.4%	11	100.0%
			Junior		1	1			
			Total	207	234	27	13.0%	207	100.0%
		Transfer Students	Freshman	6	11	5	83.3%	6	100.0%
			Sophomore	63	55	-8	-12.7%	61	103.3%
			Junior	35	51	16	45.7%	36	97.2%
			Senior	32	36	4	12.5%	32	100.0%
			Total	136	153	17	12.5%	135	100.7%
		New Specials	Special	8	5	-3	-37.5%	8	100.0%
			Total	8	5	-3	-37.5%	8	100.0%
		Reentry Students	Freshman	4	3	-1	-25.0%	4	100.0%
			Sophomore	4	7	3	75.0%	4	100.0%
			Junior	6	4	-2	-33.3%	6	100.0%
			Senior	14	16	2	14.3%	15	93.3%
			Special		1	1			
			Total	28	31	3	10.7%	29	96.6%
		Continuing Students	Freshman	22	18	-4	-18.2%	22	100.0%
			Sophomore	284	286	2	0.7%	286	99.3%
			Junior	301	341	40	13.3%	301	100.0%
			Senior	786	792	6	0.8%	786	100.0%
			Special	1		-1	-100.0%	1	100.0%
			Total	1,394	1,437	43	3.1%	1,396	99.9%
		Total		1,773	1,860	87	4.9%	1,775	99.9%
	GRAD	New Graduates	Master	73	63	-10	-13.7%	71	102.8%
			Doctoral	28	29	1	3.6%	27	103.7%
			Non Degree	11	8	-3	-27.3%	11	100.0%
			Total	112	100	-12	-10.7%	109	102.8%
		Reentry Students	Master	2	1	-1	-50.0%	2	100.0%
			Doctoral	5	6	1	20.0%	5	100.0%
			Non Degree		1	1			
			Total	7	8	1	14.3%	7	100.0%
		Continuing Students	Master	147	139	-8	-5.4%	148	99.3%
			Doctoral	172	178	6	3.5%	173	99.4%
			Non Degree	3	5	2	66.7%	3	100.0%
			Total	322	322	0	0.0%	324	99.4%
		Total		441	430	-11	-2.5%	440	100.2%
	Total			2,214	2,290	76	3.4%	2,215	100.0%
Total				2,214	2,290	76	3.4%	2,215	100.0%

University of Wisconsin--Milwaukee

Comparison of Enrollments to Date

Student Limits Set:
Course Limits Set:

| | Fall 2017 | | | | | |
| | September 18, 2017 | | | | | |
	Prior Year To Date Credits	Current Year To Date Credits	Differ-ence	% Differ-ence	Prior Year Final Credits	Ratio: Prior Year To Date / Final Credits
GRAD		39	39			
GLBL	540	1,059	519	96.1%	537	100.6%
SW	9,850	9,020	-830	-8.4%	9,851	100.0%
SPH	1,013	1,087	74	7.3%	1,008	100.5%
NURS	11,311	11,442	131	1.2%	12,728	88.9%
L&S	154,144	150,310	-3,834	-2.5%	154,072	100.0%
SOIS	6,467	7,165	698	10.8%	6,459	100.1%
CHS	19,561	18,181	-1,380	-7.1%	19,635	99.6%
SFS	282	388	106	37.6%	280	100.7%
CEAS	19,892	20,001	109	0.5%	19,853	100.2%
SOE	17,258	17,222	-36	-0.2%	17,279	99.9%
LSB	36,023	35,741	-282	-0.8%	35,965	100.2%
PSOA	23,197	23,916	719	3.1%	23,238	99.8%
SARUP	6,023	6,118	95	1.6%	6,031	99.9%
Total	305,561	301,689	-3,872	-1.3%	306,936	99.6%

University of Wisconsin--Milwaukee

Comparison of Enrollments to Date

Student Limits Set:
Course Limits Set:

			Fall 2017					
			September 18, 2017					
			Prior Year To Date HC	Current Year To Date HC	Difference	% Difference	Prior Year Final HC	Ratio: Prior Year To Date / Final
Total			25,843	25,236	-607	-2.3%	26,037	99.3%
UGRD	New Freshmen	Freshman	3,041	3,147	106	3.5%	3,038	100.1%
		Sophomore	65	72	7	10.8%	64	101.6%
		Junior	1	3	2	200.0%	2	50.0%
		Special		1	1			
		Total	3,107	3,223	116	3.7%	3,104	100.1%
	Transfer Students	Freshman	264	234	-30	-11.4%	260	101.5%
		Sophomore	670	593	-77	-11.5%	669	100.1%
		Junior	425	435	10	2.4%	430	98.8%
		Senior	144	137	-7	-4.9%	146	98.6%
		Special	1	1	0	0.0%	1	100.0%
		Total	1,504	1,400	-104	-6.9%	1,506	99.9%
	New Specials	Senior		1	1			
		Special	348	326	-22	-6.3%	352	98.9%
		Total	348	327	-21	-6.0%	352	98.9%
	Reentry Students	Freshman	74	76	2	2.7%	74	100.0%
		Sophomore	162	174	12	7.4%	161	100.6%
		Junior	145	126	-19	-13.1%	146	99.3%
		Senior	174	191	17	9.8%	177	98.3%
		Special	149	150	1	0.7%	153	97.4%
		Total	704	717	13	1.8%	711	99.0%
	Continuing Students	Freshman	736	621	-115	-15.6%	732	100.5%
		Sophomore	3,944	3,709	-235	-6.0%	3,939	100.1%
		Junior	3,804	3,884	80	2.1%	3,808	99.9%
		Senior	6,359	6,038	-321	-5.0%	6,378	99.7%
		Special	711	680	-31	-4.4%	868	81.9%
		Total	15,554	14,932	-622	-4.0%	15,725	98.9%
	Total		21,217	20,599	-618	-2.9%	21,398	99.2%
GRAD	New Graduates	Master	916	1,004	88	9.6%	917	99.9%
		Doctoral	172	158	-14	-8.1%	171	100.6%
		Non Degree	151	130	-21	-13.9%	151	100.0%
		Total	1,239	1,292	53	4.3%	1,239	100.0%
	Reentry Students	Master	44	42	-2	-4.5%	44	100.0%
		Specialist	10	15	5	50.0%	9	111.1%
		Doctoral	35	39	4	11.4%	35	100.0%
		Non Degree	25	16	-9	-36.0%	26	96.2%
		Total	114	112	-2	-1.8%	114	100.0%
	Continuing Students	Master	1,910	1,903	-7	-0.4%	1,917	99.6%
		Specialist	11	15	4	36.4%	11	100.0%
		Doctoral	1,203	1,173	-30	-2.5%	1,212	99.3%
		Non Degree	149	142	-7	-4.7%	146	102.1%

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Comparison of Enrollments to Date

Student Limits Set:
Course Limits Set:

			Fall 2017				
			September 18, 2017				
			Prior Year To Date HC	Current Year To Date HC	Differ-ence	% Differ-ence	Prior Year Final HC	Ratio: Prior Year To Date / Final
		Total	3,273	3,233	-40	-1.2%	3,286	99.6%
	Total		4,626	4,637	11	0.2%	4,639	99.7%

NEW COURSES

COMPSCI 202 INTRODUCTORY PROGRAMMING USING PYTHON, 3 cr., U
Programming in Python. Basic control structures including recursion.
Basic and library data types. Problem solving with objects. Writing
classes. Basic software development skills.
Pre-req: Math Placement Level B

IND ENG 598 CONNECTED ENTERPRISE SYSTEMS, 3 cr., U/G
A multidisciplinary course that will expose students to new technologies
that enable smart manufacturing, such as Internet of Things, Sensor
Embedded Technologies, Big Data and Predictive Analytics.
Prereq: Jr st; Ind Eng 360, Ind Eng 367

MECHENG 495 BIOMEDICAL INSTRUMENTATION LABORATORY, 3 cr., U
Characteristics of measurement systems, experiment planning, sensor
and system calibration, measurement of basic quantities, first and second
order systems, data acquisition and processing, experimental projects.
Jointly offered with & counts as repeat of BME 495.
Prereq: BME 325 (P), MechEng 469 (C)

COURSE CHANGES

BME 495 BIOMEDICAL INSTRUMENTATION LABORATORY, 3 cr., U
Charactreristics of measurement systems, experiment planning, sensor
and system calibration, measurement of basic quantities, first and second
order systems, data acquisition and processing, experimental projects.
Jointly offered with & counts as repeat of MechEng 495.
Prereq: BME 325 (P), MechEng 469 (C)

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BME 495 BIOMEDICAL INSTRUMENTATION LABORATORY, 3 cr., U
Charactreristics of measurement systems, experiment planning, sensor
and system calibration, measurement of basic quantities, first and second
order systems, data acquisition and processing, experimental projects.
Prereq: BioSci 203(P), BME 101(P), ElecEng 310(P), ElecEng 436(P),
MechEng 469(C).

COMPSCI 458 COMPUTER ARCHITECTURE, 3 cr., U/G
Processor organization and design; memory organization;
microprogramming and control unit design; I-O organization; case studies
of selected machine architectures. Jointly offered with & counts as repeat
of ElecEng 458.
Prereq: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng
367(P).

COMPSCI 458 — COMPUTER ARCHITECTURE, 3 cr., U/G
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures. Jointly offered with & counts as repeat of ElecEng 458.
Prereq: jr st; ElecEng 354(P), CompSci 315(215)(P) or ElecEng 367(P).

COMPSCI 481 — SERVER-SIDE INTERNET PROGRAMMING, 3 cr., U/G
Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.
Prereq: jr st; one of CompSci 113 (P), InfoSt 320 (P), or Art 324 (P); C or better in CompSci 202(P) or CompSt 702(P)

COMPSCI 481 — SERVER-SIDE INTERNET PROGRAMMING, 3 cr., U/G
Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.
Prereq: jr st; one of CompSci 113(C), InfoSt 240(C), Art 324(C), or CompSt 702(P).

ELECENG 458 — COMPUTER ARCHITECTURE, 3 cr., U/G
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures. Jointly offered with & counts as repeat of CompSci 458.
Prereq: jr st; ElecEng 354(P); C or better in CompSci 315(P) or ElecEng 367(P).

ELECENG 458 — COMPUTER ARCHITECTURE, 3 cr., U/G
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures. Jointly offered with & counts as repeat of CompSci 458.
Prereq: jr st; ElecEng 354(P), CompSci 315(215)(P) or ElecEng 367(P).

MATERIALS ENGINEERING CURRICULUM CHANGES

1)   Allow MathSci 234 to be used as a substitute of ElecEng 234.

2)   Allow CompSci 151, CompSci 153, CompSci 202, and CompSci 250 to be used as a substitute for CompSci 240.

ELECTRICAL ENGINEERING CURRICULUM CHANGES

1)   Add CompSci 241 as a required course for Electrical Engineering majors.

2)   Remove MechEng 301 as a required course and add MechEng 301 to the list of Group A Technical Electives for Electrical Engineering majors.