



SAN DIEGO STATE
UNIVERSITY

COLLEGE OF ENGINEERING

STAFF MEETING

FEBRUARY 13, 2020

AGENDA



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College of Engineering

- Call to Order

- Announcements & Updates
 - Engineering Development Update
 - Kate Carinder – Senior Director of Development, CoE
 - Engineering Faculty Update
 - Update on Faculty Searches

- State of the College
 - Research & Graduate Program Update
 - Undergraduate Program Update
 - Update on CoE Diversity, Equity & Inclusion (DEI) Council
 - Important Dates to Remember

- Other Business
 - Roundtable

- Adjournment



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ANNOUNCEMENTS & UPDATES

DEVELOPMENT UPDATE



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- Engaging alumni, donors, friends, and emeriti faculty
 - Coffee with the Dean
 - Evening with the Dean
- Referrals
 - Please reach out if you have a former student that is grateful for his/her educational experience
- Social Media & E-Communication are great resources

Contact us: Kate Carinder, kcarinder@sdsu.edu
Missy Stump, mstump@sdsu.edu

MEET OUR NEW ME FACULTY



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Dr. Yang Yang (*Spring 2020*)

Ph.D., Wuhan University,

Wuhan, China

Joint Ph.D. student, University of California at Los Angeles

Assistant Professor of Mechanical Engineering

Previous Position

Postdoctoral Research Associate

University of Southern California, Los Angeles, CA

Areas of Specialization

Bioinspired 3D printing; Ceramic 3D printing; 3D printing of micro-scale superhydrophobic structure; Novel applications of 3D printing; Mechanism of materials and structures; Stereolithography; Piezoelectric/Thermoelectric Energy harvesting device; Wearable Sensor; 4D Printing; High Dielectric Nanocomposites; Self-healing Materials.

FACULTY SEARCHES FOR 2020 - 21



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Department	Position Area	Level	VPAA #
AE	Aerospace Engineering Design	Assistant	2020/21-18
CCEE	Structural Engineering	Assistant	2020/21-17
ECE	Digital Signal Processing	Assistant	2020/21-15
ME	Robotics & Control	Assistant	2020/21-16
CCEE	Coastal Engineering	Assistant	2020/21-72
CCEE	Sustainable Infrastructure	Assistant	2020/21-70
CCEE	Water Engineering	Assistant	2020/21-71
ME	Advanced Materials Processing	Assistant	2020/21-73
ME	Computational Mechanics	Assistant	2020/21-75
ME	Renewable Energy Conversion and Storage	Assistant	2020/21-74
Dean's Office	Assoc. Dean for Undergraduate Studies	Full	2020/21-58
Dean's Office	Assoc. Dean for Graduate Studies	Full	SDSU Internal



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STATE OF THE COLLEGE



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RESEARCH & GRADUATE PROGRAM UPDATE

RESEARCH AWARDS TO ENGINEERING PIs



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Total Dollars Awarded to Engineering Faculty

	02/10/2018 to 02/09/2019			02/10/2019 to 02/09/2020			Total Dollars Awarded
Dept.	Total Dollars Awarded	Total Number of Awards	Number of PIs with Awards	Total Dollars Awarded	Total Number of Awards	Number of PIs with Awards	Change (%)
AE	\$456,174	6.00	5	\$956,292	14.34	6	109.63
CCEE	\$1,385,910	12.67	9	\$1,672,224	15.00	11	20.66
ECE	\$1,511,966	17.00	9	\$1,701,897	15.00	10	12.56
ME	\$3,096,374	22.40	12	\$3,502,855	26.25	13	13.13
TOTAL	\$6,450,424	58.07	35	\$7,833,268	70.59	40	21.44

JDP - CHALLENGES AND OPPORTUNITIES



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- 47 JDP students are enrolled in the program in Spring 2020
 - AE = 13
 - CCEE = 5
 - ECE = 13
 - ME = 16

JDP - CHALLENGES AND OPPORTUNITIES



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- Opportunities

- Include stipends and fees in proposals
- Stipends ~ \$22,920 per year
- Benefits ~ (15% or 55%, SDSURF or SDSU)
- F&A ~ 50.5% (on stipends and benefits)
- Basic tuition ~ \$5,932 per year
- Nonresident tuition ~ \$4,752 per year
- UCSD Fee ~ \$5,500 per year
- Mandatory fees ~2,000 per year
- **~\$53k - \$72k per year per student**

MASTER'S PROGRAMS



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Five-Year New Enrollment History: CA Resident

Master's Programs	F 2015	F 2016	F 2017	F 2018	F 2019
Aerospace Engineering (09021)	13	8	12	15	12
Bioengineering (09051)	5	7	1	9	1
Civil Engineering (09081)	21	14	17	15	18
Electrical Engineering (09091)	12	8	16	16	16
Environmental Engineering (09221)	7	3	4	5	4
Master of Engineering (09134)	5	2	4	1	1
Mechanical Engineering (09101)	18	20	17	19	15
Master's program total	81	62	71	80	67

Five-Year New Enrollment History: Non-resident & International

Master's Programs	F 2015	F 2016	F 2017	F 2018	F 2019
Aerospace Engineering (09021)	1	3	1	3	3
Bioengineering (09051)	2	4	2	3	2
Civil Engineering (09081)	13	12	8	4	4
Electrical Engineering (09091)	69	38	28	14	19
Environmental Engineering (09221)	2	0	0	1	3
Master of Engineering (09134)	0	0	1	1	0
Mechanical Engineering (09101)	12	10	3	6	7
Master's program total	99	67	43	32	38



MASTER'S PROGRAMS

Fall 2020 Target Admits and Application Activity: CA Resident

Master's Programs	F2020 Target Admits	Applications* (2/6/2020)
Aerospace Engineering (09021)	22	10
Bioengineering (09051)	10	4
Civil Engineering (09081)	24	12
Electrical Engineering (09091)	24	20
Environmental Engineering (09221)	6	2
Master of Engineering (09134)	2	0
Mechanical Engineering (09101)	25	14
Master's program total	113	62

Fall 2020 Target Admits and Application Activity: Non-resident & International

Master's Programs	F2020 Target Admits	Applications* (2/6/2020)
Aerospace Engineering (09021)	17	12
Bioengineering (09051)	11	7
Civil Engineering (09081)	17	24
Electrical Engineering (09091)	72	82
Environmental Engineering (09221)	7	2
Master of Engineering (09134)	1	3
Mechanical Engineering (09101)	20	17
Master's program total	145	147

* complete plus incomplete applications



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UNDERGRADUATE PROGRAM UPDATE

WHAT IS IN THE PROPOSAL



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- **Area A (Meet A.3 in major)** : The College is requesting that Engineering majors be allowed to meet the General Education Critical Thinking requirement as part of its major requirements completing an engineering course(s), rather than by completing a course in GE Area A.3.
- **Area D (Upper division)** : The College is requesting that Engineering majors be allowed to meet the learning goals for GE Area D (explorations) through completion of the capstone senior design course and project experience.
- **Area B (Remove area restrictions)** : The College is requesting a variance that would allow Engineering students to complete Area B with 12 unrestricted hours of coursework from approved Area B courses, rather than requiring them to complete specific subarea requirements.

GE REDUCTION CALENDAR EVENTS



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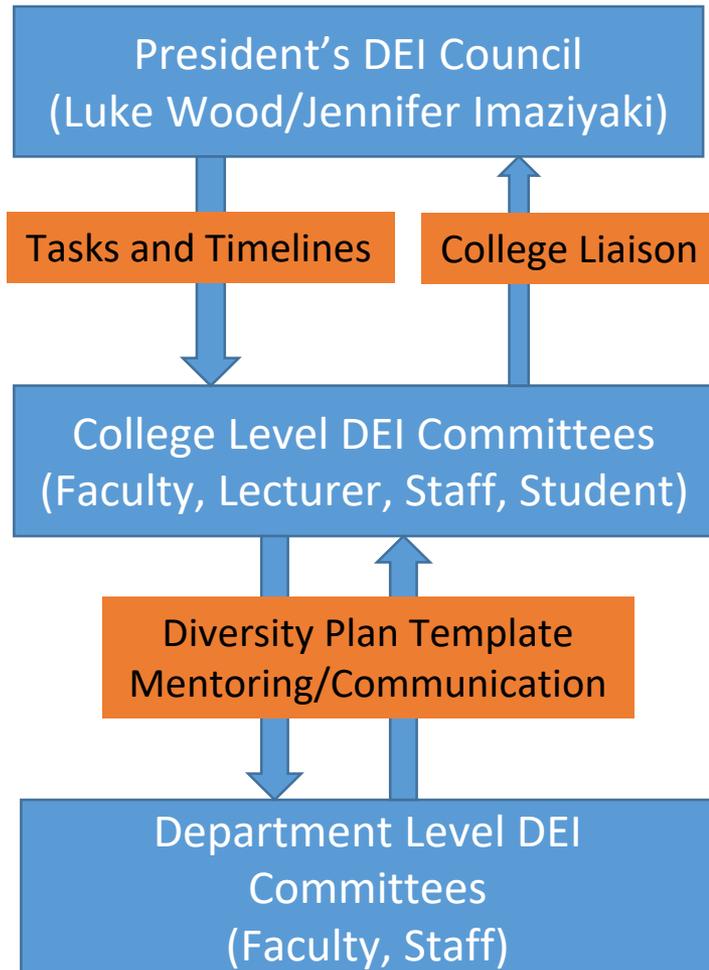
- On January 23, 2020
 - Senate Sponsored Town Hall Discussion
 - We presented College of Engineering proposal on “General Education Graduation Requirement and the 120 Unit Cap”
- On February 5, College of Engineering Proposal is Submitted to Senate, Curriculum Committee, GE Committee, AP&P Committee, Provosts Office
- On Feb. 10, GE Comm. discussed our proposal
- On Feb. 25, AP&P will discuss our proposal
- Motion on senate floor : TBD

DEI: ORGANIZATION AND TASKS



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College Diversity Statement

*College Data Analysis
College Climate Survey
Institution #1*

Fall 2019

Summarize in 1000 words each:

*College Data
College Climate Survey
College Success*

Spring 2020

3 SMART Goals

*Analyze Survey
Come up with SMART Goals
Implementation Details Specified
by Council*

Spring /Fall 2020

SPRING 2020

CoE IMPORTANT DATES TO REMEMBER



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- **Feb 13, 2020 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Engineering Dean’s Conf. Room
- **March 21, 2020 (Sat)** – 9:00am-2:00pm – **Explore SDSU Open House** – CoE & EIS
- **Apr 21, 2020 (Tue)** – 11:00am-12:00pm – **CoE Faculty Mtg** – Bioscience Center,
Gold Auditorium
- **Apr 23, 2020 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Engineering Dean’s Conf. Room
- **May 6, 2020 (Wed)** – 8:30am-1:00pm – **Engineering Dean’s Advisory Board Mtg** –
Templo Mayor Conf. Room, Aztec Student Union
- **May 6, 2020 (Wed)** – 1:30pm-4:00pm – **2020 Engineering Design Day** – Montezuma Hall
- **May 15, 2020 (Fri)** – Time TBD – Engineering Banquet - Location TBD
- **May 16, 2020 (Sat)** – 5:30pm-7:30pm – **Engineering Commencement** – Viejas Arena

Fall 2020 Important Dates:

- **August 19, 2020 (Wed)** – 6:30pm-8:30pm – **Engineering Gathering** – Tom Ham’s
Lighthouse
- **August 20, 2020 (Thu)** – 1pm-4:30pm – **CoE Fall 2020 Retreat** – Templo Mayor Conf. Rm.



OTHER BUSINESS

- Other Business?
- Round Table



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THANK YOU!
