



SAN DIEGO STATE
UNIVERSITY

COLLEGE OF ENGINEERING

STAFF MEETING

DECEMBER 3, 2020

AGENDA



SAN DIEGO STATE
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College of Engineering

- Call to Order

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

- State of the College
 - Research & Graduate Program Update
 - Undergraduate Program Update
 - Community & Communication
 - Important Dates to Remember

- Other Business
 - Roundtable

- Adjournment



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ANNOUNCEMENTS & UPDATES

MEET OUR NEW STAFF



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Andrea Ramirez

B.A., Political Science, CSU San Marcos

Position:

Front Desk Coordinator for Department of Civil, Construction & Environmental Engineering

VIRTUAL RETIREMENT PARTY FOR ARLENE



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Our Arlene Gibson is retiring! Arlene's last working day is December 30, 2020.

Please join us for Arlene's Virtual Retirement Party:

Who?: All CoE Faculty & Staff

When?: Thursday, December 17, from 1:00pm-2:00pm

(Dean Olevsky & Arlene will make remarks from 1:00pm-1:15pm, and remaining time will be informal social time, please come and go as your schedule allows!)

Where?: Zoom Link:

<https://SDSU.zoom.us/j/89335294883?pwd=UGtTKzdTa0pJUSsvMnVzeHA1Ny9jdz09>

Meeting ID: 893 3529 4883

Passcode: 413516

Why?: To wish Arlene the best on her retirement!

DEVELOPMENT UPDATE



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- FY 2021 Development Goal (Faculty Support, Scholarship, ME, AGC Chair)
 - Goal - \$6M | Actual - \$5.1M (July 1, 2020-June 30, 2021)

- College's Endowment is Growing (Engineering Alumni = 5% of University Alumni)
 - **\$11.2M in 2018 | \$21M in 2020**

- Development Efforts in Support of Diversity, Equity & Inclusion (DEI)
 1. Women in Engineering/Femineer Program
 - Fall 2019 – Redirected Qualcomm \$1.1M endowment to the WE and Femineer
 - Fall 2019 – Secured a \$100,000 gift for the Femineer Program
 - Spring 2020 - C-Funds and online giving links established for both the Women in Engineering and Femineer© Programs to support philanthropic efforts
 - Spring 2020 – \$5M solicitation for WE and Femineer Program donor declined
 - Spring 2019 – Explored exchange program at the request of a donor that would provide a revenue stream for WE and Femineer

DEVELOPMENT UPDATE



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- Development Efforts in Support of DEI (cont...)
 2. MESA Program (SDSU program is over 35 years old)
 - 2018-2020 Three endowments are created (scholarship and program)
 - Fall 2020 All MESA donor, alumni and friends Zoom
 3. National Society of Black Engineers (NSBE)
 - Fall 2020 established C fund and giving link
 - Qualcomm makes first ever gift to NSBE
 - Alumni and student feature
 4. Society of Hispanic Engineers (SHPE)
Fall 2020 Qualcomm makes \$30,000 gift

DEVELOPMENT UPDATE



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○ Development Efforts in Support of DEI (cont...)

5. La Plebe

- February 2020 met with College leadership
- Fall 2020 alumni, donor and friends Zoom

6. General Scholarship Support

- Summer 2018 Georgia Griffiths endows scholarship for with preference for SWE

7. Highlighting Minority Alumni in WATN Features

- Carlos Gonzalez
- Alex Mora

8. Engineering Minority Representation on TCF Board

- Engineering DAB and IAB Members serving on TCF Board [Steve Doyle, Alan Dulgeroff, Alex Mora, Daisy Galeana]



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STATE OF THE COLLEGE

FACULTY SEARCHES FOR 2020 - 21



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Searches Successfully Completed

Department	Position Area	Level	VPAA #
AE	Aerospace Engineering Design	Assistant	2020/21-18
CCEE	Sustainable Infrastructure 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	Structural Engineering	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

Unchilled Searches

New Open Position:

AE	Aerodynamics	Assistant	2021/22-06
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RESEARCH & GRADUATE PROGRAM UPDATE

PROPOSAL SUBMISSIONS



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	07/01/2019 to 11/20/2019		07/01/2020 to 11/20/2020		Total Number of Proposals
Dept.	Total Number of Proposals	Number of PIs with One or More Proposals	Total Number of Proposals	Number of PIs with One or More Proposals	Change (%)
AE	7.00	4	12.50	7	78.6
CCEE	11.00	9	17.00	10	54.5
ECE	15.93	13	12.00	10	-38.6
ME	8.85	9	21.70	17	145.2
TOTAL	46.38	35	63.20	44	36.3

PROPOSAL AWARDS



	07/01/2019 to 11/20/2019			07/01/2020 to 11/20/2020			Total Dollars Awarded
Dept.	Total Dollars Awarded	Total Number of Awards	Number of PIs with One or More Awards	Total Dollars Awarded	Total Number of Awards	Number of PIs with One or More Awards	Change (%)
AE	\$619,838	4.34	5	\$202,000	3	3	-67.4
CCEE	\$778,887	7	6	\$1,105,006	8	7	41.9
ECE	\$828,939	8	7	\$1,860,067	3.08	5	124.4
ME	\$1,306,554	7	8	\$1,808,368	7.5	7	38.4
TOTAL	\$3,534,218	27.34	26	\$4,975,442	21.58	22	40.8

PROPOSAL SUBMISSIONS BY FACULTY RANKS



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	07/01/2020 to 11/20/2020		
Faculty Rank	Number of T/TT by Rank	Number of T/TT with One or More Proposals	% TT with One or More Proposals
Assistant	27	21	77.8
Associate	16	6	37.5
Full	25	16	64.0
Others	N/A	1	N/A
TOTAL	68	44	63.2

PROPOSAL AWARDS BY FACULTY RANKS

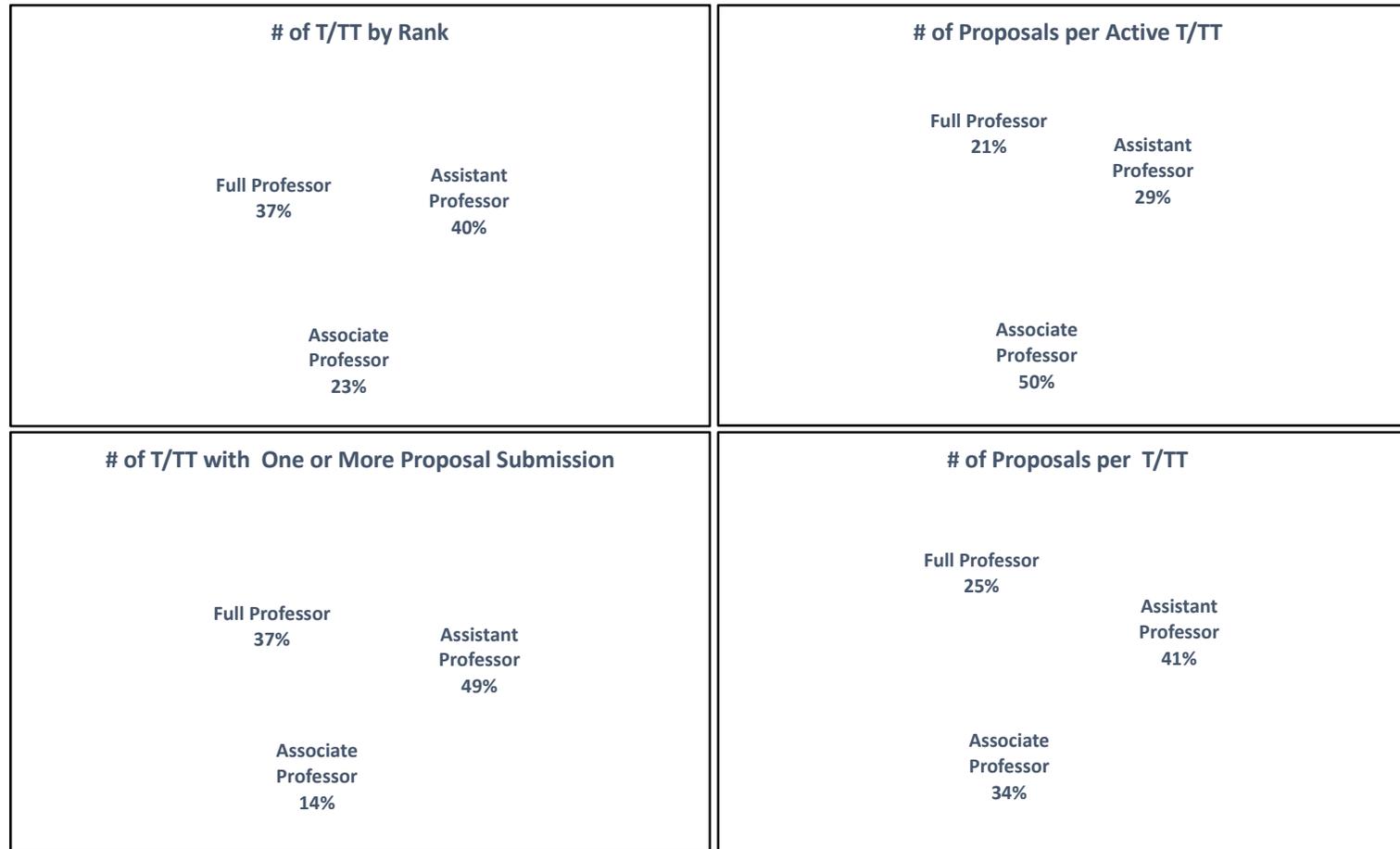
	07/01/2020 to 11/20/2020		
Faculty Rank	Number of T/TT by Rank	Number of T/TT with One or More awards	% of T/TT with One or More awards
Assistant	27	6	22.2
Associate	16	4	25.0
Full	25	11	44.0
Others	N/A	1	N/A
TOTAL	68	22	30.9

PROPOSAL SUBMISSION - 07/01/20 TO 11/20/20



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AWARDS - 07/01/20 TO 11/20/20



# of T/TT by Rank	\$ per Active T/TT	\$ per T/TT
<p>Full Professor 37%</p> <p>Assistant Professor 40%</p> <p>Associate Professor 23%</p>	<p>Full Professor 34%</p> <p>Associate Professor 16%</p> <p>Assistant Professor 50%</p>	<p>Full Professor 34%</p> <p>Associate Professor 16%</p> <p>Assistant Professor 50%</p>
# of T/TT with One or More Awards	# Awards per Active T/TT	# Awards per T/TT
<p>Full Professor 52%</p> <p>Assistant Professor 29%</p> <p>Associate Professor 19%</p>	<p>Full Professor 33%</p> <p>Associate Professor 45%</p> <p>Assistant Professor 22%</p>	<p>Full Professor 50%</p> <p>Associate Professor 13%</p> <p>Assistant Professor 37%</p>

ENGINEERING JDP UPDATE



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- Fall 2021 Application window: Oct 1 to Dec 15, 2020
- GRE requirement suspended for Fall 2021 Admission cycle
- Per 2020 Program Review, priority will be given to:
 - Students with at least three or more years of external PI grant and/or startup funds and
 - Students fully supported by corporate sources related to their employment
- Engineering Joint Doctoral Program Research Symposium:
December 4, 2020, 3-5 pm

MASTER'S PROGRAMS UPDATE



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- Fall 2021 Application window: Oct 1, 2020 to Mar 1, 2021
- GRE requirement suspended for Fall 2021 Admission cycle



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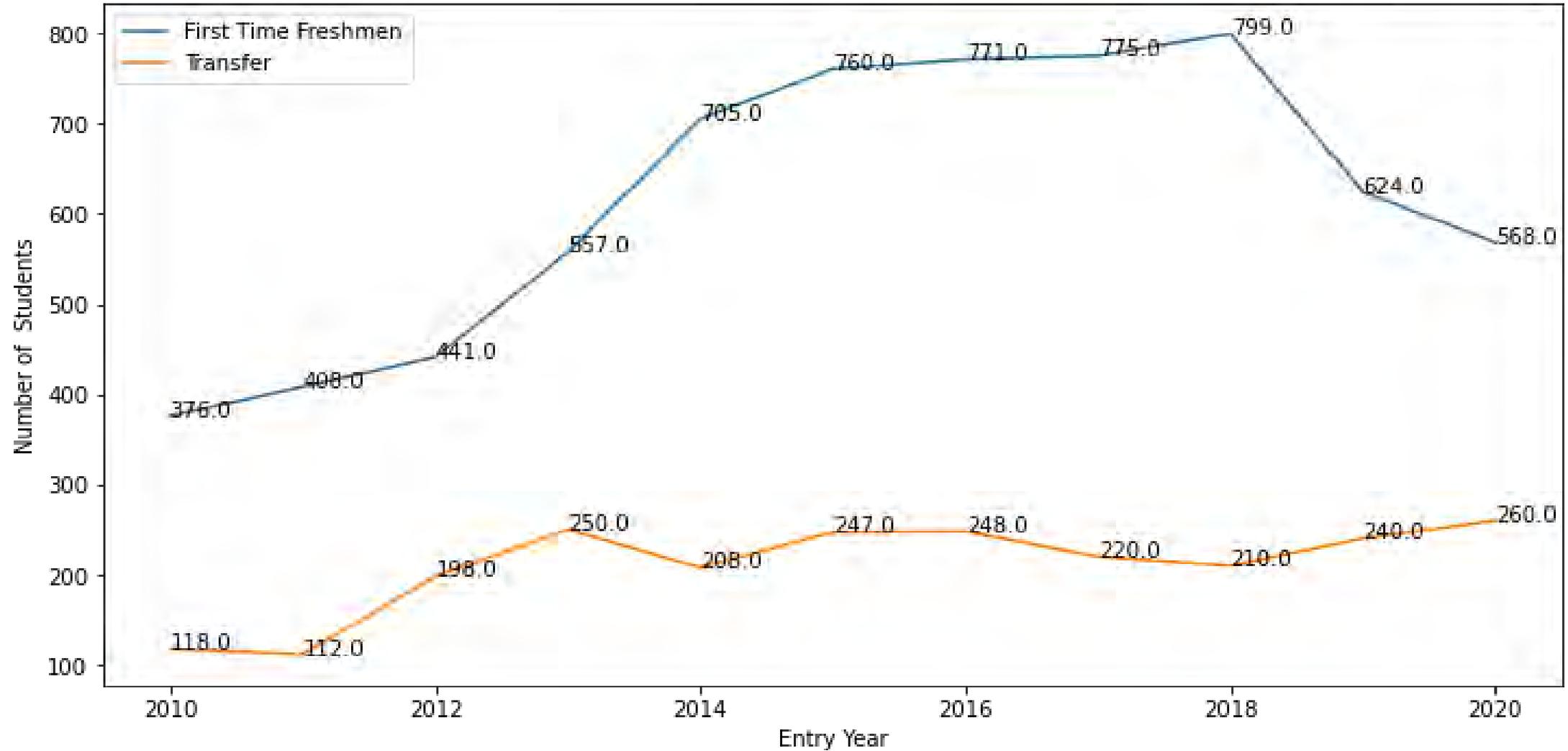
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UNDERGRADUATE PROGRAM UPDATE

ENROLLMENT



Enrollment Over Years

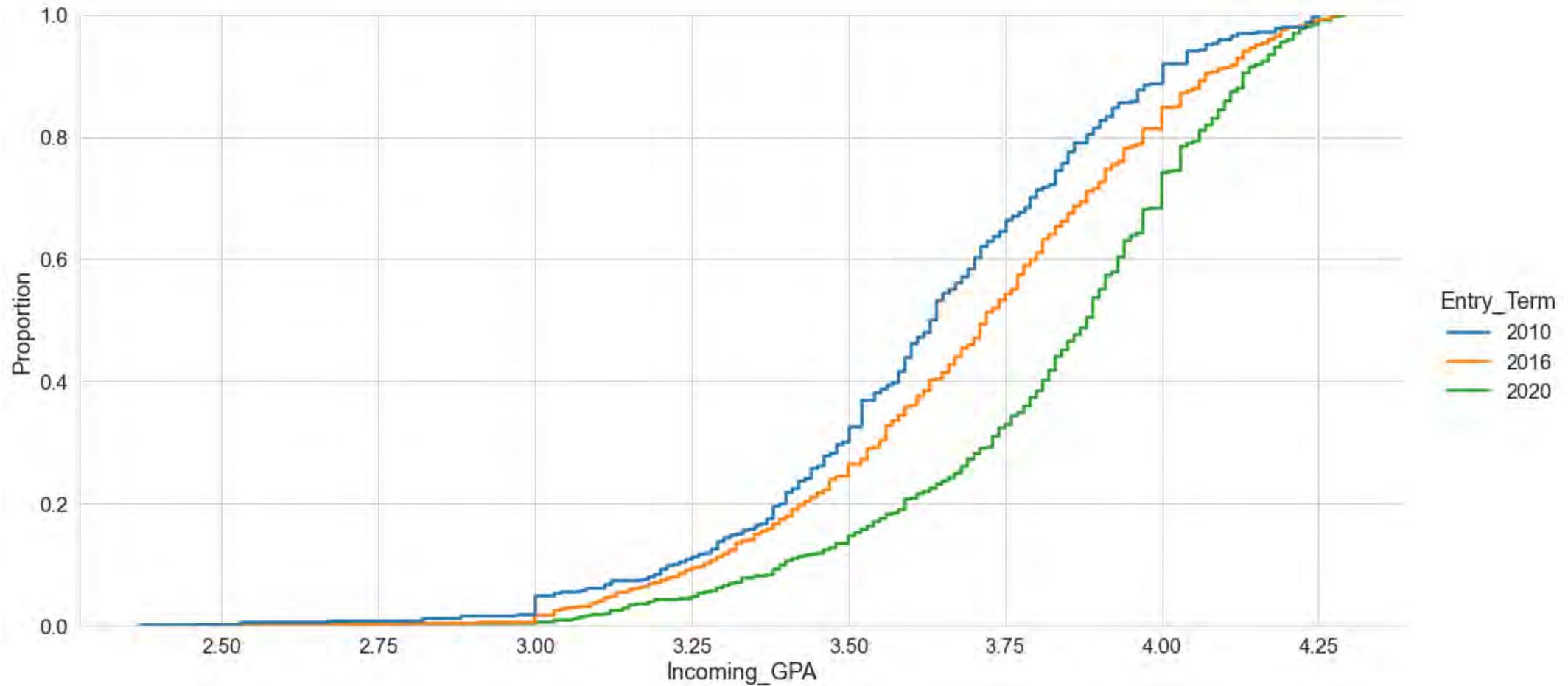


FTF STUDENTS (HIGH SCHOOL GPA)



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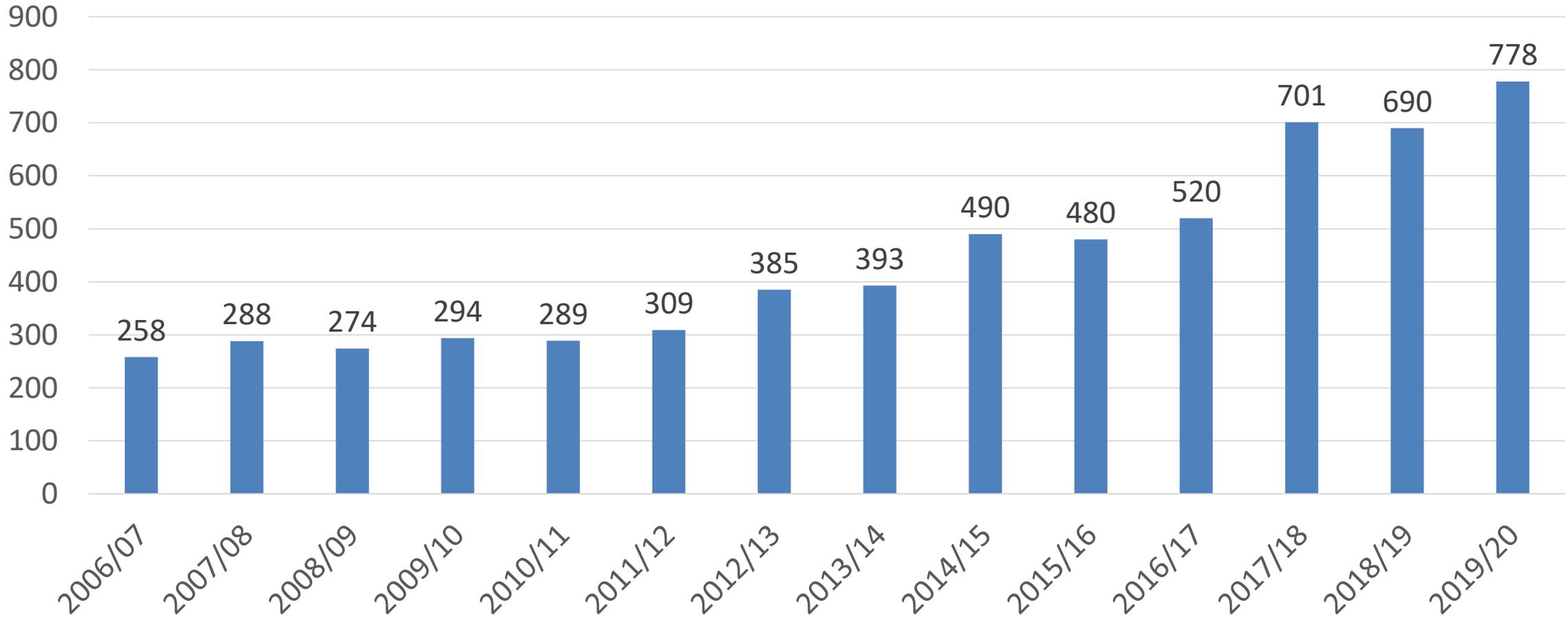
GRADUATIONS



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Number of Students Graduating from College



SAT/ACT SUSPENDED



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- CSU temporarily suspended the use of ACT/SAT test scores for determining first-time freshmen admission eligibility for the 2021-22 admissions cycle.
- CSU requested that campuses develop a multi-factor admissions model (MFA).
- Combination of select academic, non-cognitive and environmental variables.

CSU MFA RECOMMENDATION



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- Cumulative high school GPA
- Amount of advanced coursework a student has completed
- Number of units taken and grades earned in STEM and mathematics courses
- Additional points for students within each campus' local region

SDSU PREDICTIVE MODEL



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- Cumulative High School GPA
- Advanced Coursework (a-g course count over 30)
- Number of math and quantitative reasoning courses taken
- Math and Quantitative Reasoning GPA
- Number of STEM courses taken

EXPERIENTIAL/ENVIRONMENTAL FACTORS



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- Local Admission Area
- College Preparatory Program
- Foster Youth
- Homeless Youth
- First Generation
- % HS Free and Reduced Meals
- % HS of URM

*Note: Factors based on EMAG recommendations, approved by Senate in 2019.

ACHIEVEMENT GAP



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- The achievement gap in education refers to the different levels of academic performance of students from a variety of racial, ethnic and economic backgrounds.
- The lack of access to high-quality education through K-12 education and inadequate Math and Science education has a deep enduring impact on the Engineering student's development and success both at college and after college.
- Our goal is to identify the root cause of achievement gaps and remedy them as early as possible in our program and provide educational equality to our students.

MEASURABLE METRICS



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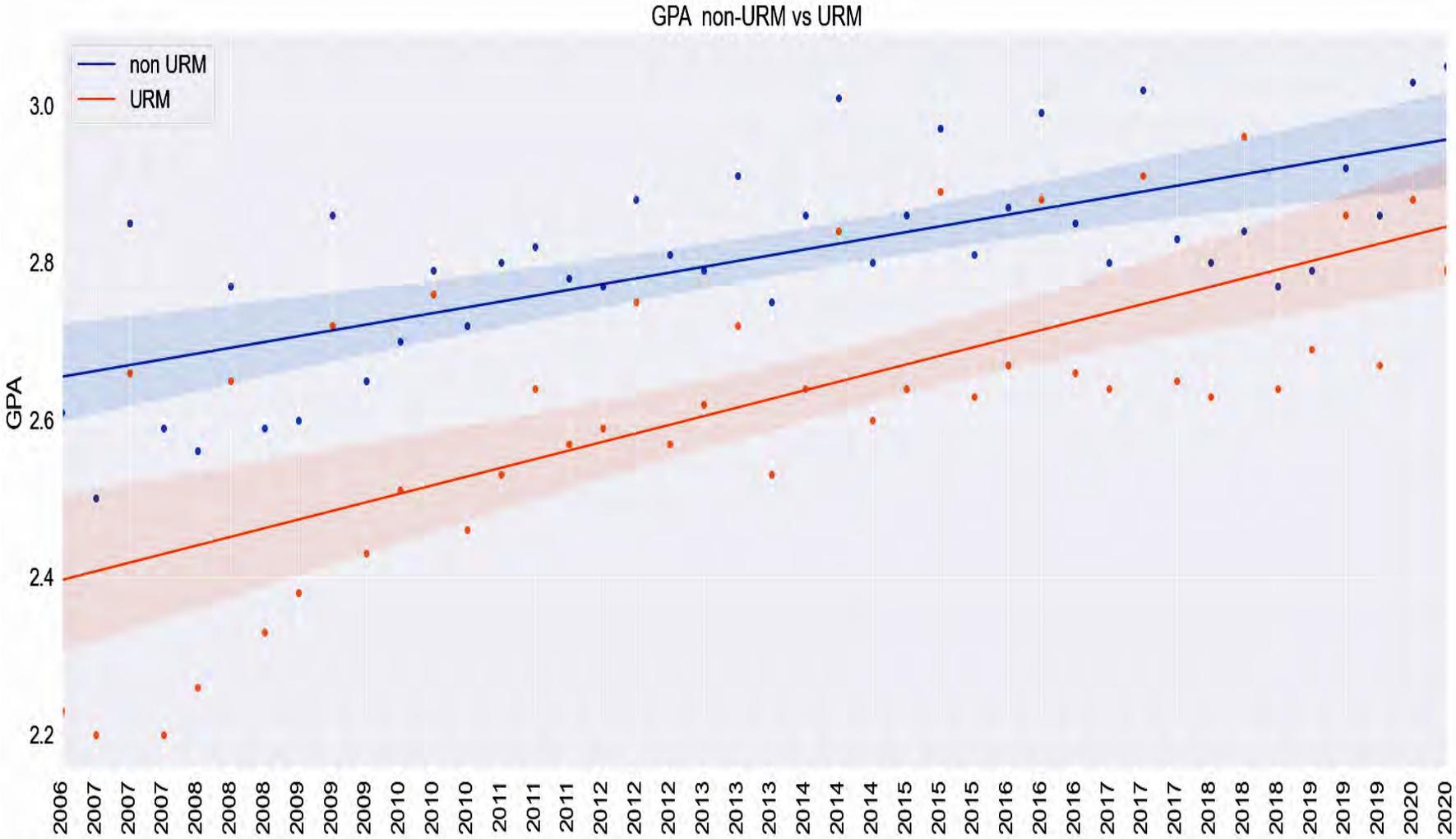
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We are studying the following metrics at college, major and course level:

1. DFW rates for URM and nonURM students
2. Grade A rates for URM and nonURM student
3. Average GPA for URM and nonURM students

COLLEGE AVERAGE GPA OVER TIME

CoE Graduation Rate Increased by 20%

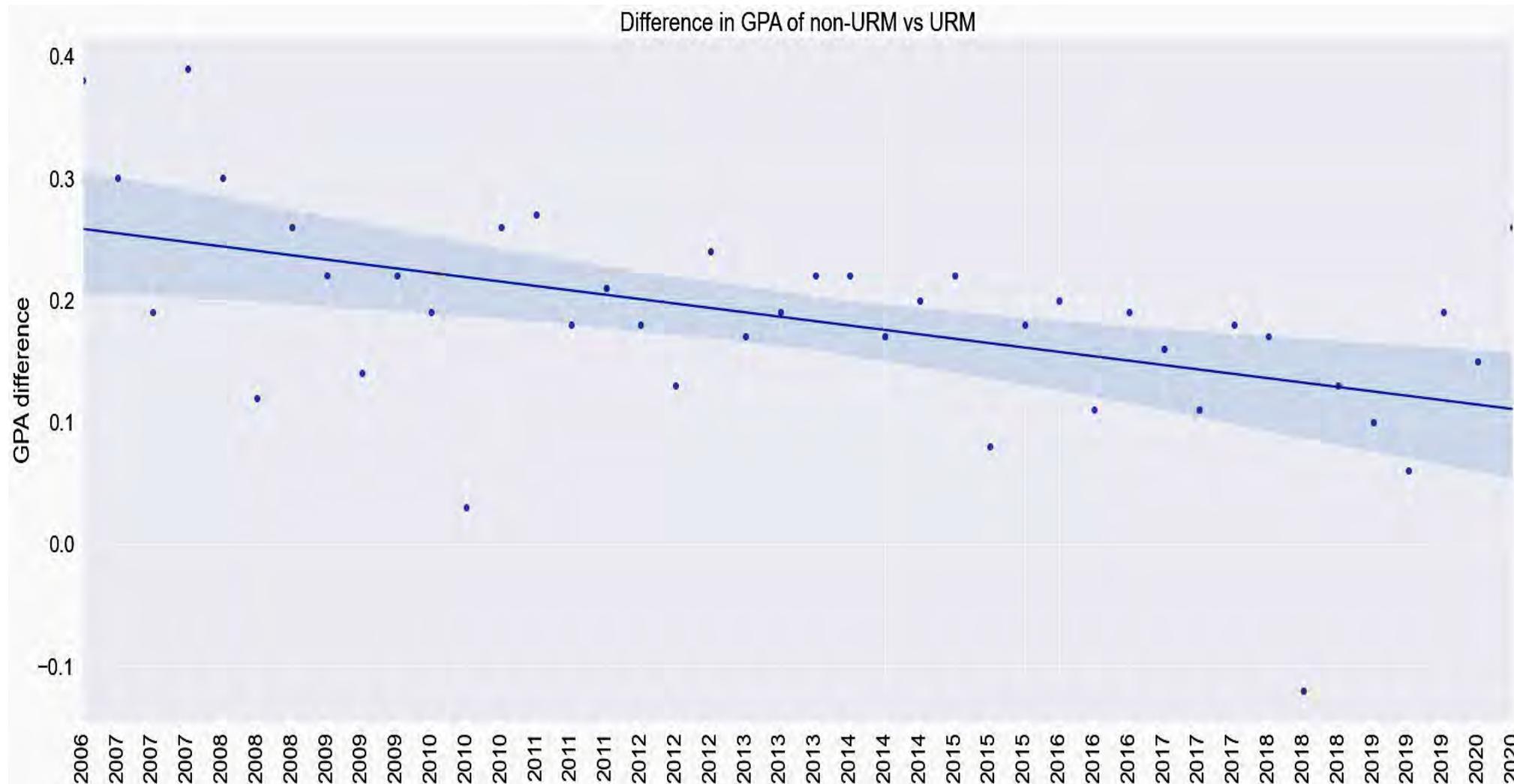


THE GPA GAP — (COLLEGE) URM AND NON-URM STUDENTS



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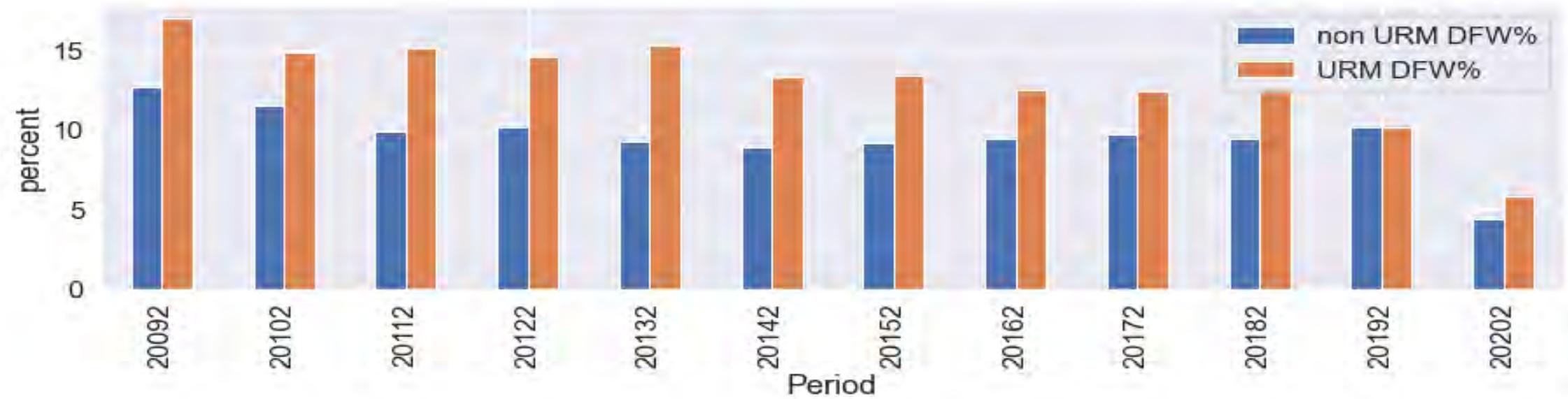
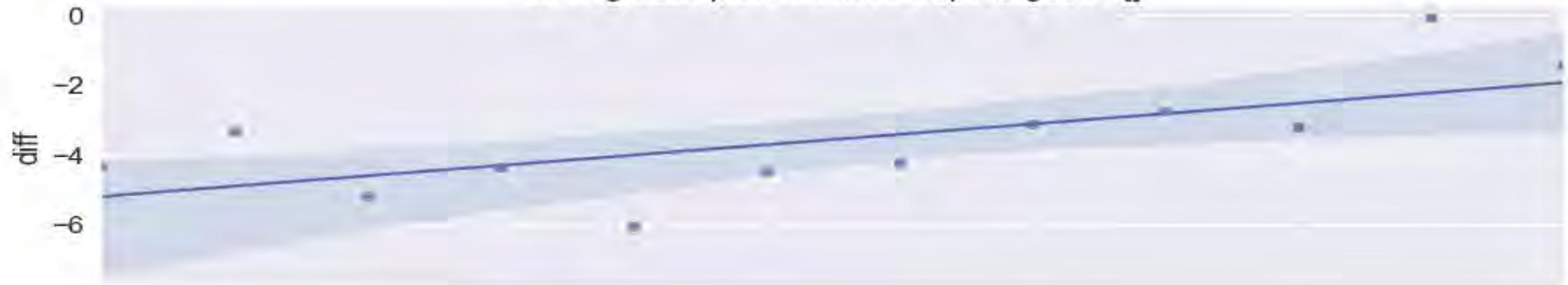
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DFW GAP



DFW-grades plot - Positive slope is good - []



INTERVENTIONS IMPLEMENTED



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- **Closed loop tutoring:** Several core courses are in our tutoring program run by MESA and College of Engineering Student Success Center.
- **Supplemental instruction:** High DFW core courses are provided supplemental instruction.
- **Advising:** EAB Navigate is being deployed/moving from reactive to proactive advising.
- **Bridge programs:** Bridge programs are planned for high impact lower-level courses to supplement prerequisite knowledge.

SPRING PROGRAMS



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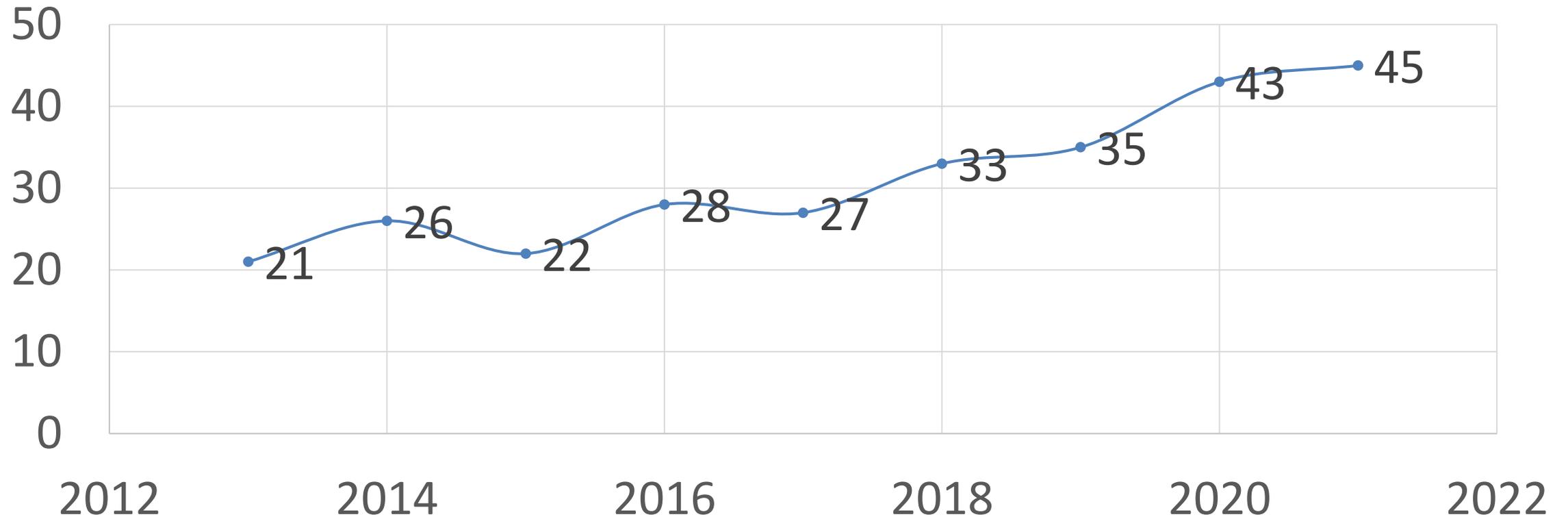
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- Continue virtual instruction
- In Spring, 11 courses are offered in-person:
 - Senior Design Courses in majors (EE, COMPE, ME, AE)
 - Lab Courses (ME 495, EE 380L, EE 330L, EE 430L, ENVE 363, CIVE 218, EE 420L, AE 460)

SUMMER PROGRAM GROWTH (# COURSES)



Number of Courses During Summer Semester



CENTER FOR STUDENT SUCCESS IN ENGINEERING (CSSE)



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- CSSE services continue virtually
- To better serve students we are working with other offices such as International Student Center, EOP, DFASS and others.
- CSSE remains open as long as campus is open. Advising Services to continue throughout winter break, when campus is open.

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Got questions?
Want to talk to someone?

Student Affairs

Virtual Office Hours

Student Affairs Coordinator,
Donovan Geiger
Mondays, Noon – 1:50pm
<https://SDSU.zoom.us/j/92336594339>

Assistant Dean, Theresa M. Garcia
Tuesdays, 9am – 11am
<https://SDSU.zoom.us/j/97046207065>

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Center for Student Success in Engineering

MESA
Math · Engineering · Science
Achievement

FREE VIRTUAL DROP-IN TUTORING

FALL 2020
<https://mesa.sdsu.edu/activities/coe-tutoring-program>

COURSES OFFERED:

AE 200, 340, 550	ME 200, 304, 350, 360
CIVE 462	PHYS 195, 196
COMPE 160, 470L, 570	CHEM 200, 202
EE 300, 310, 410	MATH 150, 151

CAREERS IN ENGINEERING

2020-2021 PANEL SERIES

- SEP 25 CONSTRUCTION
- OCT 23 AEROSPACE
- NOV 20 MECHANICAL
- FEB 12 ENVIRONMENTAL
- MAR 19 ELECTRICAL
- APR 9 CIVIL
- APR 30 COMPUTER

ALL EVENTS WILL TAKE PLACE FROM 2:00PM-3:30PM ON ZOOM. REGISTER ON HANDSHAKE TO ATTEND. ZOOM LINK: SDSU.ZOOM.US/j/98906295124

CONTACT BIANCA PORTAL TRUETT FOR ANY QUESTIONS: BPORAL@SDSU.EDU

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Center for Student Success in Engineering

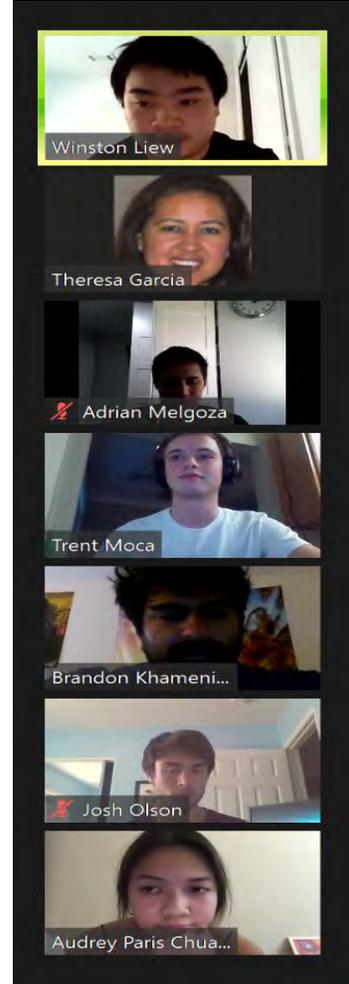
October is Advising Month

Plan your Spring 2021 Courses on Saturday, October 17th by joining the CSSE Peer Advisors for a special Virtual Advising workshop. No RSVP needed; go to the Zoom link.

Saturday, October 17th
9:30 am - 11:30 am

<https://SDSU.zoom.us/j/89698043627>
Meeting ID: 896 9804 3627

- All activities are virtual
- CESC website updated and connects to student organizations:
<https://as.sdsu.edu/cesc/>
- Student Success Fee (SSF) proposals awarded for a total of: \$965,580
 - CoE 19 awards; Total \$277,159
 - All CoE Depts represented
 - CoE awards range from \$300 to \$103,000



UPDATE ON FALL 2020

COE IN-PERSON CLASSES



No approved in-person Engineering classes for remainder of Fall 2020 semester

APPROVED ⁺	MEETS IN PERSON*	NOTES
AE 403	Yes	some (not all) may need lab access
CIVE 218	Yes	staggered attendance and location
COMPE/EE 496 (A&B)	Yes	staggered attendance
EE 330L	Yes	in lab by appointment
EE 380L	Yes	staggered
EE 430L	Yes	in lab by appointment
ENVE 363	Yes	confirmed 10/8/20
ME 490 (A&B)	Yes	staggered attendance
ME 495	Yes	staggered attendance



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COMMUNITY & COMMUNICATION

FEMINEER® & WOMEN IN ENGINEERING



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• Connecting with Femineer® Teachers

- Hosted Virtual Office Hours Sessions & Educator Collaboration seminars
- Created content and updated NEO Learning Management System to provide resources & additional activities



• Affiliate University Partner Monthly Meetings

- Zoom meetings with Cal Poly Pomona partners
- Planned virtual opportunities for schools nationwide
- Started planning virtual Spring 2021 Femineer Summit

• Connecting with Femineer® Students

- Social Media (@Femineer_SD)
 - Twitter & Instagram
- SDSU WE faculty coloring pages
 - Created 12 WE faculty & 2 WE staff coloring pages
 - Will be donating printed coloring books & poster series to local schools and educators
 - Available on WE webpage & social media page
 - Twitter/Instagram - @SDSU_WE
- Femineer® Friday Challenges
 - Created videos of hands-on activities
 - Available on SDSU Femineer® Youtube Channel



• WE Faculty Monthly Meetings

- Virtual Zoom meetings
- Applied for numerous joint grants
- Recently awarded \$75K for San Diego Grantmakers Science & Technology grant



• WE Coffee Hours

- Hosted 3 virtually during Fall 2020
- Engaged ~15-20 participants each Coffee Hour
- Connect WE students with WE faculty & staff



• WE Chat

- Hosted 3 virtually via Zoom during Fall 2020
- Engaged ~20-35 participants each WE Chat
- Speakers included: 1 local engineer & 2 SDSU WE faculty



• STEM Talk Day with Industry

- Hosted 3 Zoom webinars in Fall 2020
- Engaged ~25-40 participants each STEM Talk
- Companies included: TRC Companies, Motorola Solutions, SDG&E



• WISE University Seminar Course

- Engaged 14 WISE students during the Fall semester
- WISE students created empowerment posters shared with K-12 female STEM students

UNIVERSITY SEGMENT

Virtual Services:



Graduate School Alumni Panel



MESA Gathering w/Dean, Alumni & Donors



MESA/Solar Turbines Training Academy



Solar Turbines | SAN DIEGO STATE UNIVERSITY | MESA

NORTHROP GRUMMAN MISSION SYSTEMS ROTATIONAL PATHWAYS PROGRAM

INFORMATION SESSION
 Entry-level and rotation opportunities, Q&A panel consisting of Software, Electrical, and Systems Engineering disciplines
 FRIDAY, OCTOBER 9, 2020 9:30-11:00 AM PST



REGISTER ONLINE: <https://forms.gle/uE65xhSFEUg9AQjN6>
 ZOOM MEETING ID # 818 9719 7661

Virtual Alumni Chat (Sept, Oct, Nov)



COLLEGE PREP SEGMENT

Fall 2020

Virtual Student Engagement:



- Weekly STEM Modules
- Mentor/Career Exploration Webinar Series
- STEM Challenges (via social media)
- Life Skills Workshops (Resume/Interview)
- College Applicant Assistance
- Teacher/Advisor Distance Learning Support

University & College Prep Students



EXPLORE CAREER FIELD AND INTERESTS, NETWORK WITH PROFESSIONALS, LEARN ABOUT COMPANY CAREER OPPORTUNITIES, AND MORE!

SPOTS ARE LIMITED, REGISTER ASAP!
 ELIGIBLE, COMPLETED REGISTRATIONS ARE ACCEPTED ON A FIRST COME, FIRST SERVED BASIS.

MESA.SDSU.EDU/ACTIVITIES/SHADOW-DAY





TROOPS TO ENGINEERS

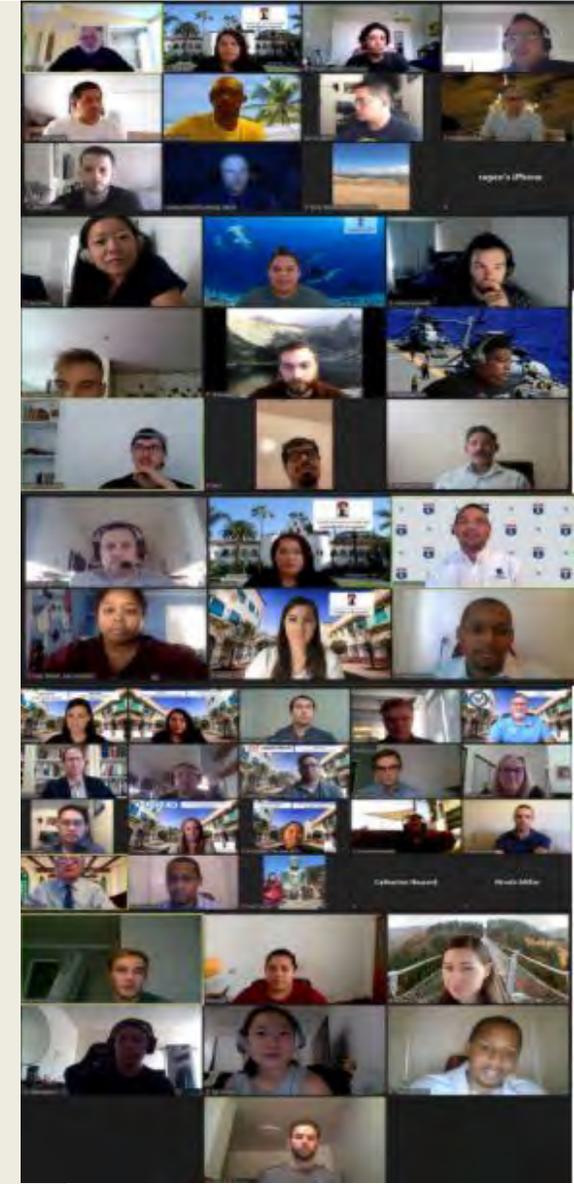


Business as Usual: “Adapt and Overcome”

- Support with obtaining paid internship and jobs
- Continued community and industry partner engagement
- Compiling and consolidating University relevant resources for students - posted on program websites
- Implementing a variety of virtual tools to efficiently communicate with students (**Zoom, GoogleMeet, GroupMe, Youtube, Discord** etc.)

Fall 2020 Semester Wrap up: “Home stretch”

- Check-in with students
 - ◆ Monthly Lunch Hour Check-in
 - ◆ Providing virtual platforms for students to socially engage with each other
- 8 virtual professional development events
 - ◆ Welcome Back Mixer - Engineering Panel
 - ◆ Hensel Phelps Information Session
 - ◆ Advanced LinkedIn Workshop
 - ◆ Northrop Grumman History and Information Session
 - ◆ 1x1 Mock interviews and Resume Reviews
 - ◆ Northrop Grumman Recruiting Event
 - ◆ Lockheed Martin Information Session
 - ◆ Labor Market Analysis
- Community Outreach
 - ◆ Cammies to College
 - ◆ SD Mesa Community College Information Session



FALL 2020

CoE IMPORTANT DATES TO REMEMBER



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Fall 2020

- **December 4, 2020 (Fri) – 3:00pm-5:00pm – JDP Symposium – via Zoom**

Spring 2021

- **February 16, 2021 (Tue) – 11:00am-12:00pm – CoE Faculty Mtg – via Zoom**
- **February 18, 2021 (Thu) – 1:30pm-2:30pm – CoE Staff Mtg – via Zoom**
- **April 13, 2021 (Tue) – 11:00am-12:00pm – CoE Faculty Mtg – via Zoom**
- **April 15, 2021 (Thu) – 1:30pm-2:30pm – CoE Staff Mtg – via Zoom**
- **May 5, 2021 (Wed) – 8:30am-1:00pm – Engineering Dean’s Advisory Board Mtg – Zoom/possible in-person**
- **May 5, 2021 (Wed) – 1:30pm-4:00pm – Spring 2021 Engineering Design Day – Zoom/possible in-person**
- **May 2021 – Senior Banquet – Event contingent on COVID situation**
- **May 2021 – Engineering Commencement – Format to be announced**

OTHER BUSINESS



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- Roundtable



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THANK YOU!