



SAN DIEGO STATE  
UNIVERSITY

**COLLEGE OF ENGINEERING**

**FALL 2021 FACULTY & STAFF RETREAT**

**WELCOME TO THE 2021 - 22 AY!**

**AUGUST 20, 2021**

# AGENDA



SAN DIEGO STATE  
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## College Secretary Present for Minutes?

- 9:00-9:05** Welcome Remarks to Faculty & Staff - *Dean Olevsky*
- 9:05-10:05** State of the College Presentation - *Dean Olevsky, Associate Dean Garoma, Associate Dean Ozturk & Assistant Dean Garcia*
- 10:05-10:15** Approval of 4/13/21 CoE Faculty Meeting Minutes
- 10:15-10:45** Admission and Enrollment Trends - *Dr. Stefan Hyman, Associate Vice President, Enrollment Services*
- 10:45-10:55** Break
- 10:55-11:10** Update on Engineering Development Activities - *Kate Carinder, Sr. Director of Development for Engineering, University Relations & Development*
- 11:10-11:20** Military and Veterans Program Collaboration with the College of Engineering - *Elisa East, Program Administrator, Military and Veteran Program & Liz Reep, Grant Writer, Military and Veteran Program*
- 11:20-11:50** College of Engineering Committee Elections
- 11:50-12:00** Closing Remarks/Adjournment - *Dean Olevsky*



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# WELCOME REMARKS

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# INTRODUCTION OF NEW FACULTY & STAFF

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# Meet Our New AE Faculty



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**Qi Wang, Assistant Professor of Aerospace Engineering**  
*Ph.D., Johns Hopkins University, Baltimore, MD*

## **Previous Position**

Post-doctoral researcher Johns Hopkins University, Baltimore, MD

## **Areas of Specialization**

Adjoint-optimization and data assimilation in turbulent environments.

# Meet Our New CCEE Faculty



SAN DIEGO STATE  
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## **Gloria Faraone, Assistant Professor of Civil, Construction & Environmental Engineering**

*Ph.D., University of California San Diego, San Diego, CA*

### **Previous Position**

Ph.D. student, San Diego, CA

### **Areas of Specialization**

Seismic response and resilience of structural and non structural components and systems; Full scale structural testing and numerical finite element modeling of structural elements.

# Meet Our New CCEE Faculty



SAN DIEGO STATE  
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## **Ignacio Sepulveda, Assistant Professor of Civil, Construction & Environmental Engineering**

*Ph.D., School of Civil and Environmental Engineering, Cornell  
University, Ithaca, NY*

### **Previous Position**

John Miles Fellow at Scripps Institution of Oceanography,  
University of California San Diego, San Diego, CA

### **Areas of Specialization**

Coastal Engineering, Tsunami Hazards, Coastal Remote  
Sensing, Probabilistic Hazard Assessments, Uncertainty  
Quantification, Geophysics.

# Meet Our New ME Faculty



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## **Qizhi He, Assistant Professor of Mechanical Engineering**

*Ph.D., University of California San Diego, San Diego, CA*

### **Previous Position**

Postdoctoral Research Associate at Pacific Northwest National Laboratory, Benton County, WA

### **Areas of Specialization**

Computational solid mechanics, multiscale materials modeling, data-driven modeling.

# Engineering Administrator Update



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**Dr. Temesgen Garoma**

Associate Dean, Graduate Studies & Research

Professor

Blasker Chair in Environmental Engineering

Director of the Environmental Engineering Program



**Dr. Yusuf Ozturk**

Associate Dean, Undergraduate Studies

Professor

Electrical & Computer Engineering

# Engineering Staff Update

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## **Ollin Balderas**

*B.A., Music,  
University of California, Riverside, Riverside, CA*

### **Position:**

Administrative Support Coordinator for CoE Dean's Office

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## **Mayari Blevins**

*M.A., Student Affairs Administration in Higher Education,  
Ball State University, Muncie, IN*

### **Position:**

College of Engineering Major Advisor



# Engineering Staff Update

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## **Juno Chambers**

*M.A., Higher Education and Student Affairs,  
University of San Francisco, San Francisco, CA*

### **Position:**

College of Engineering Major Advisor

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## **Oscar Duran**

*M.S., Counseling — Student Development in Higher Education,  
California State University Long Beach, Long Beach, CA*

### **Position:**

College of Engineering Major Advisor



# Engineering Staff Update

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## **Claudia Gavaldon**

*M.A., Education — Counseling,  
San Diego State University, San Diego, CA*

### **Position:**

College of Engineering Major Advisor

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## **Robert Guzman**

*M.A. Postsecondary Educational Leadership & Student Affairs,  
San Diego State University, San Diego, CA*

### **Position:**

College of Engineering Major Advisor



# Engineering Staff Update

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## **Bianca Avina**

B.A., Sociology, San Diego State University

## **Position**

Interim Director of the Femineer and WE programs



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# STATE OF THE COLLEGE

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# COLLEGE PERSONNEL

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# TENURED/TENURE-TRACK FACULTY



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	AE	CCEE	ECE	ME	CoE
Professors	6	4	7	10	27
Associate Professors	2	6	5	2	15
Assistant Professors	3	6	7	9	25
<b>Fall 2021 T/T Faculty*</b>	<b>11</b>	<b>16</b>	<b>19</b>	<b>21</b>	<b>67</b>
New Fall 2021 Positions	1	2	0	1	4
<b>Total T/T Faculty</b>	<b>12</b>	<b>18</b>	<b>21</b>	<b>23</b>	<b>71</b>

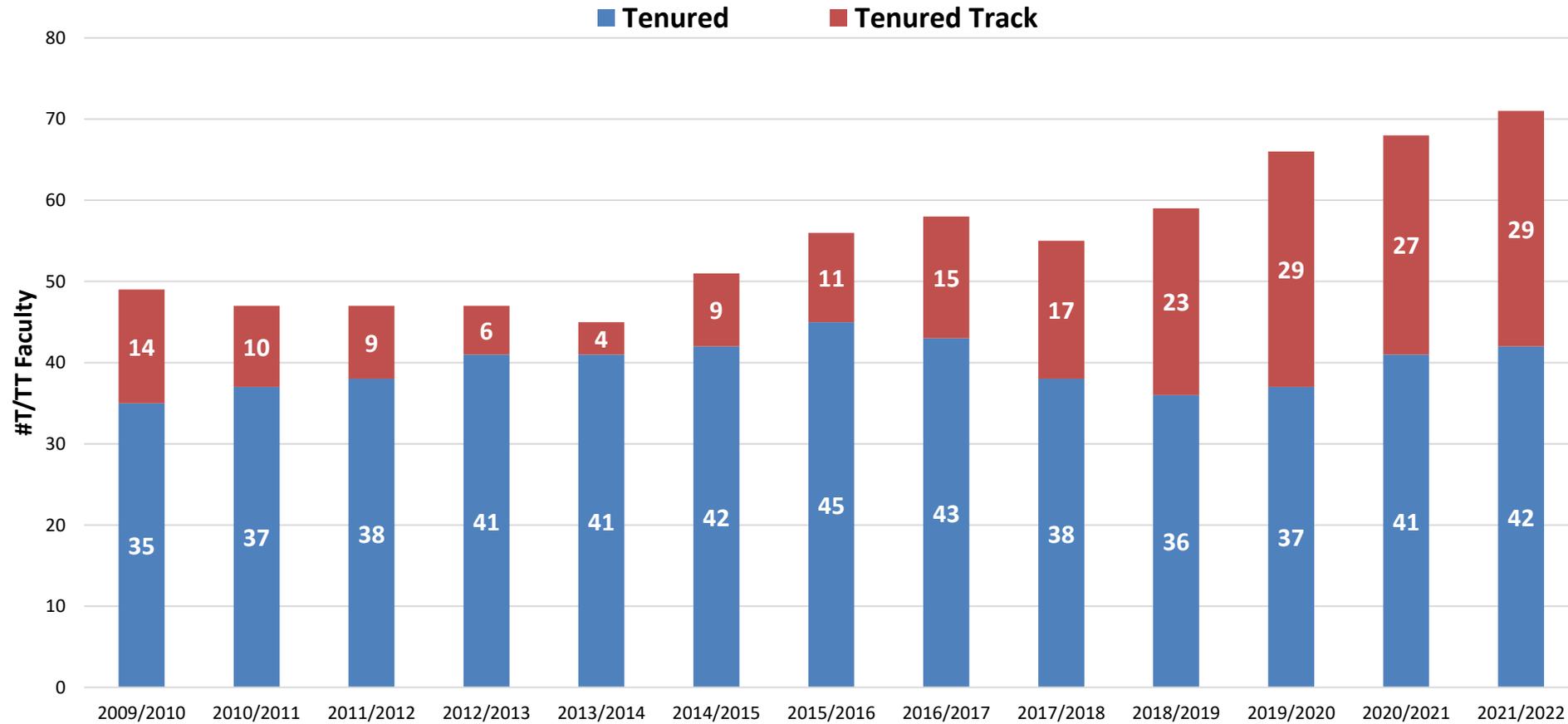
\* Includes promotions received in 20/21 to be effective Fall 2021

# T/TT FACULTY



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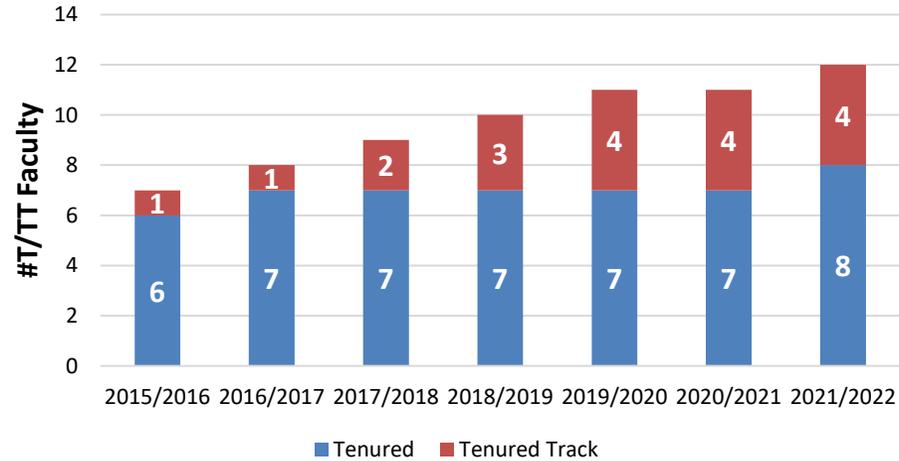
# T/TT FACULTY BY DEPARTMENT



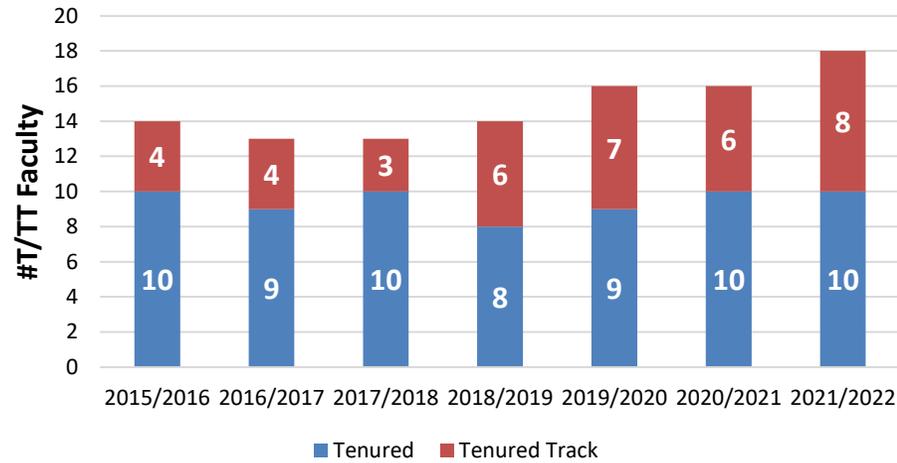
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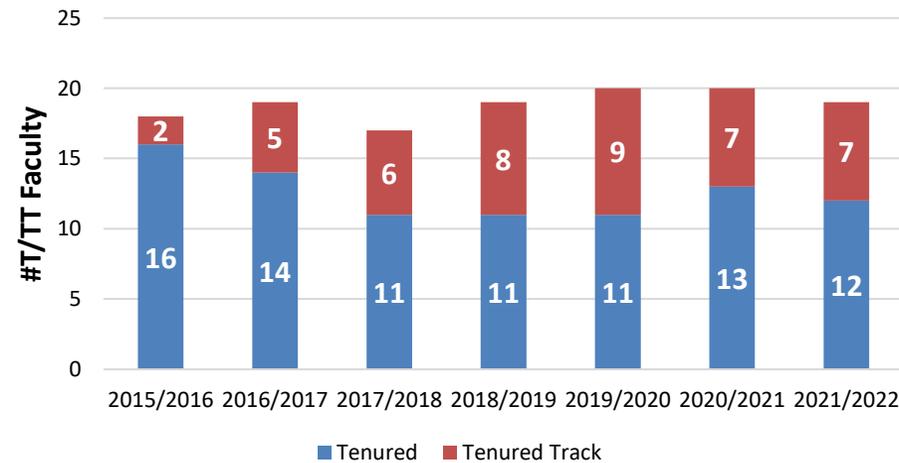
**AE**



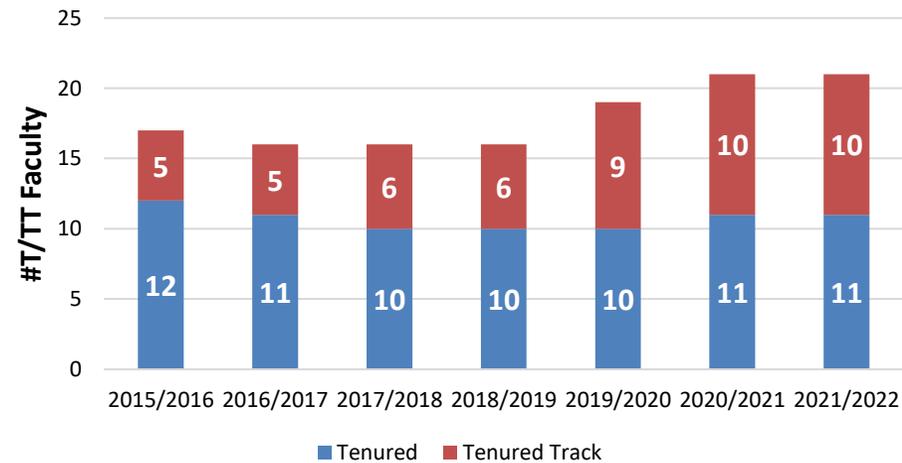
**CCEE**



**ECE**



**ME**



# FACULTY SEARCHES FOR 2021 - 22

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## **College – Funded or Semi – Funded Searches:**

- **Endowed Chair in Digital Signal Processing (ECE)**
- **Department Chair (CCEE)**

## **Centrally Funded Searches:**

- **Under negotiation**

# COE OPEN STAFF POSITIONS



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## College of Engineering

- **Communications Lead**
- **Assistant to the Dean**

## Development

- **Development Coordinator**

## Foundation

- **Troops to Engineers Coordinator**
- **CEM Coordinator (offer extended)**



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# COVID -19 UPDATE

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# COVID -19 UPDATE



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The COVID-19 vaccine will be required for students, faculty, and staff, including auxiliary employees in order to access campus this fall.

*Facial coverings are required in the following settings:*

- When in public-facing indoor settings.
- When in non-public-facing indoor settings, to include research spaces, when visitors or students are present.
- When in instructional settings, whether indoors or outdoors.
  - This includes classrooms, instructional labs, spaces being actively used in an instructional capacity, and the University Library.
  - Vaccinated instructional faculty, teaching assistants and interpreters can remove their facial coverings when teaching as long as students are masked in the classroom.

*Facial coverings are recommended in the following settings:*

- Indoors in non-public settings when gathering for meetings and other functions with others, if no members of the public or students are present.

Physical distancing requirements on San Diego State University properties have been eliminated.



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# COLLEGE BUDGET UPDATE

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# COLLEGE BUDGET UPDATE



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## Overview\*

Instructional Budget:	\$9,742,885
Non-Instructional Budget:	\$3,052,813
Operating Budget:	\$5,025,193
Total:	<u>\$17,820,891</u>

## Committed Funds

T/TT Faculty:	\$6,327,456
CoE Staff:	\$2,739,564
New Faculty Startups:	\$3,800,278
Renovations:	\$531,069
Grader Support:	\$300,000
Total:	<u>\$13,698,367</u>

\*These amounts only include the initial base budget, 20/21 carryforward funds, and the 21/22 equipment allocation



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# UPDATE ON 'BUILDING A' CONSTRUCTION

KARA PETERSON

CONSTRUCTION PROGRAM MANAGER

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COLLEGE OF  
ENGINEERING  
BUILDING

A

***BUILDING "A"***  
***RENOVATION***

# SPACE UTILIZATION



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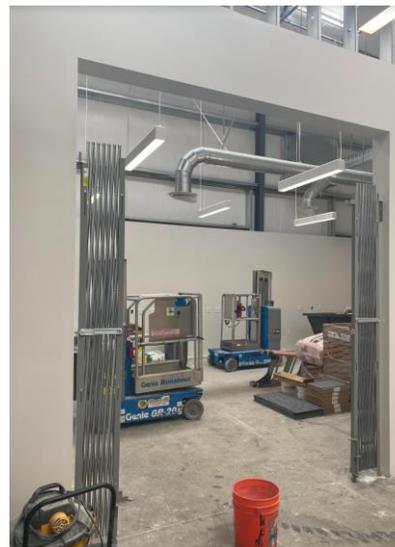




# BUILDING FEATURES



**AIR CONDITIONED  
SHOP SPACES WITH  
LOCKOFF GATE**



**INFRASTRUCTURE  
AND MEZZANINES  
FOR EQUIPMENT:  
FUME HOODS,  
SNORKELS, SINKS,  
COMPRESSED AIR,  
VACUUM**



**ACOUSTIC WALLS  
SURROUND SHOP  
SPACES**



**UPGRADED  
ELECTRICAL  
SYSTEM**

# COMMON SPACES



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STOREFRONT ENTRANCE



CORRIDOR

## RESTROOMS

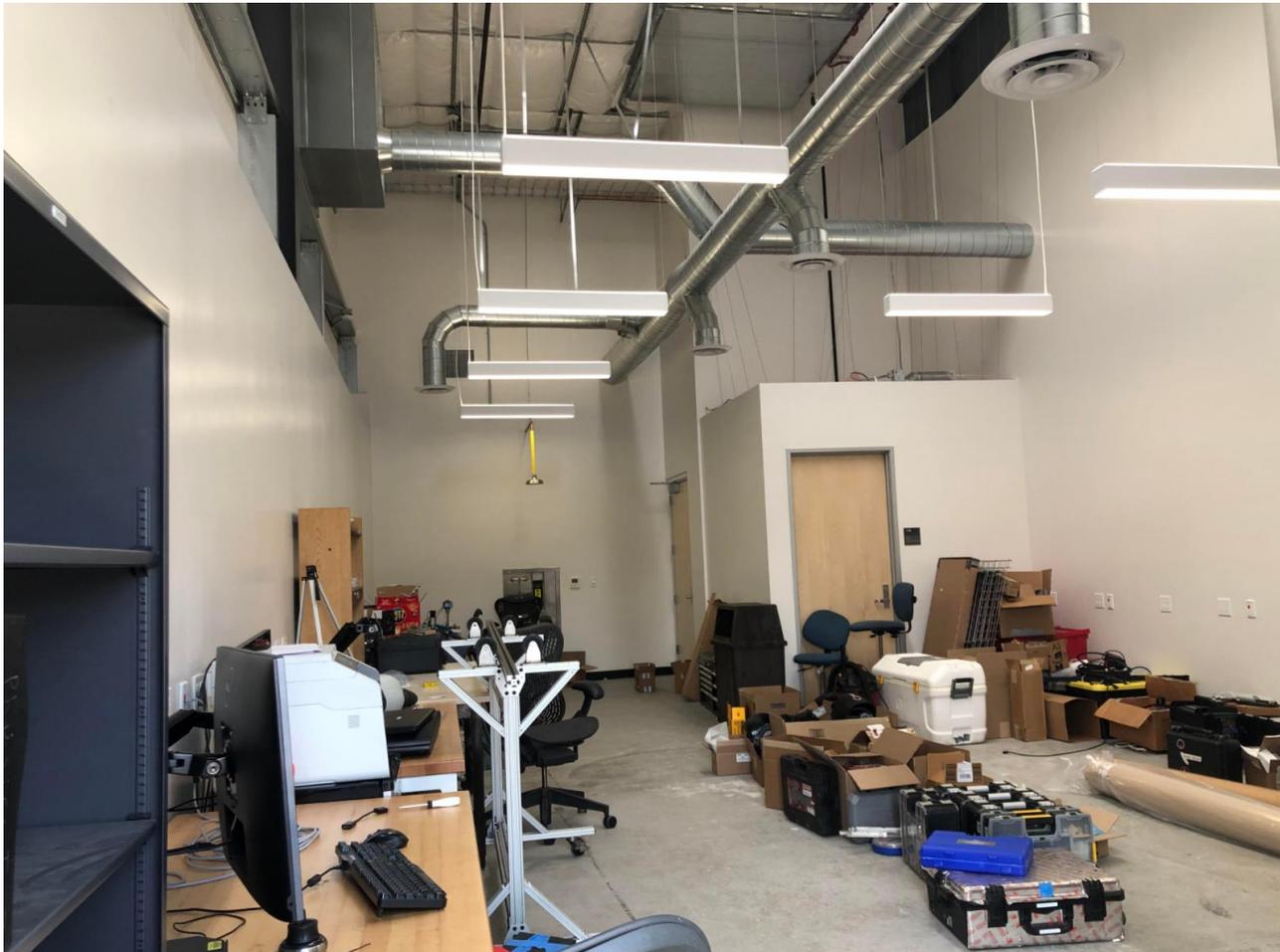


# STUDENT CLUB SPACES



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## ROCKET PROJECT STUDENT CLUB



**ASCE STUDENT CLUBS**

# FACULTY SPACES



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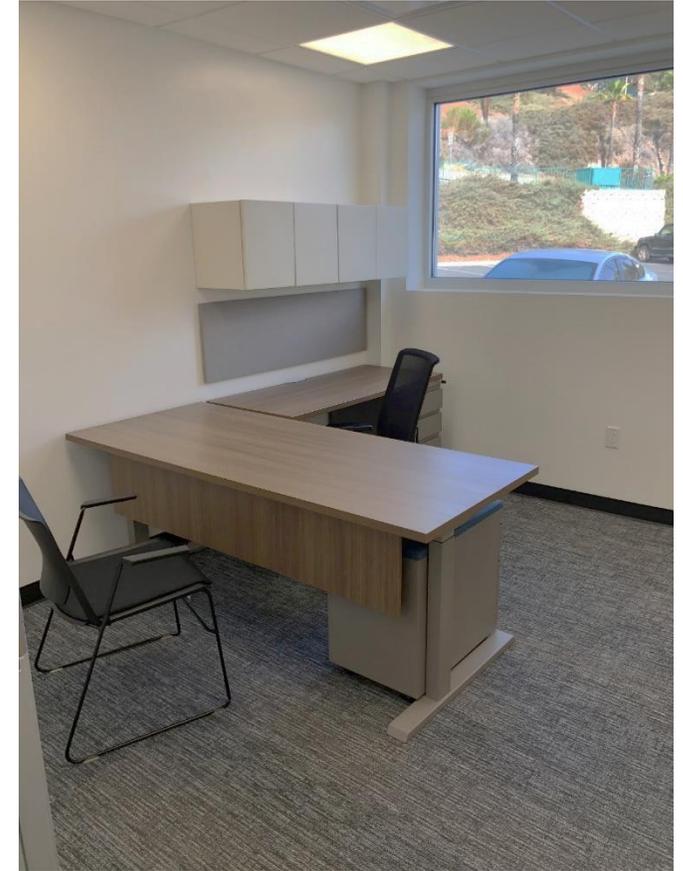
**SHARED  
CONFERENCE**



**FACULTY  
KITCHENETTE**



**FACULTY  
OFFICE**



# RESEARCH LABS



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## AEROSPACE COMPUTATIONAL LABS



# RESEARCH LABS



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**AEROSPACE WET LAB**



**AEROSPACE SHARED DRONE LAB**



# A NEW LOOK



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**BEFORE**



**CURRENT**



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# CONSTITUTION AND BYLAWS

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# CONSTITUTION AND BYLAWS



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## CONSTITUTION

1. Name and Standing
2. Vision and Mission
3. Academic Departments

## BYLAWS

1. Organization
2. Faculty Assembly
3. Standing Committees
4. Student Honors and Awards
5. Workload ([Appendix A](#))
6. RTP Criteria ([Appendix B](#))
7. Voting
8. Parliamentary Authority
9. Implem., Amendment and Repeal

## APPENDIX A. Workload Allocation Policy

1. Normal work assignment
2. Faculty teaching workload
3. Assigned time (AT) definition
4. AT for research
5. AT for pedagogy/service
6. Teaching load for *new* faculty
7. AT reconsiderations

## APPENDIX B. RTP Criteria

# CONSTITUTION AND BYLAWS

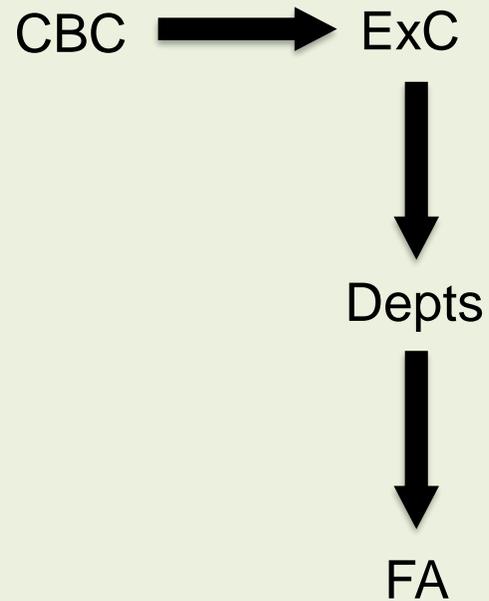


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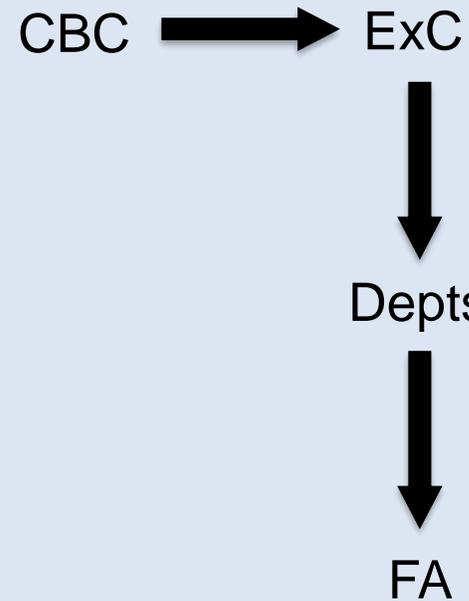
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## CONSTITUTION & BYLAWS

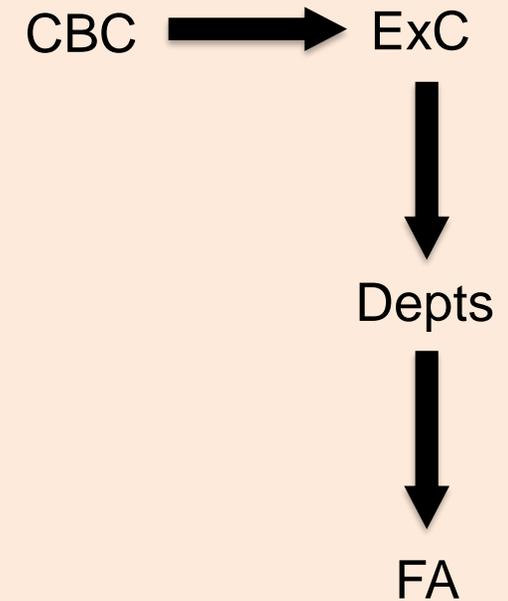
(excluding Appendices)



## APPENDIX A (AT)



## APPENDIX B (RTP)





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# UNDERGRADUATE PROGRAM UPDATE

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## UNDERGRADUATE PROGRAM UPDATE:

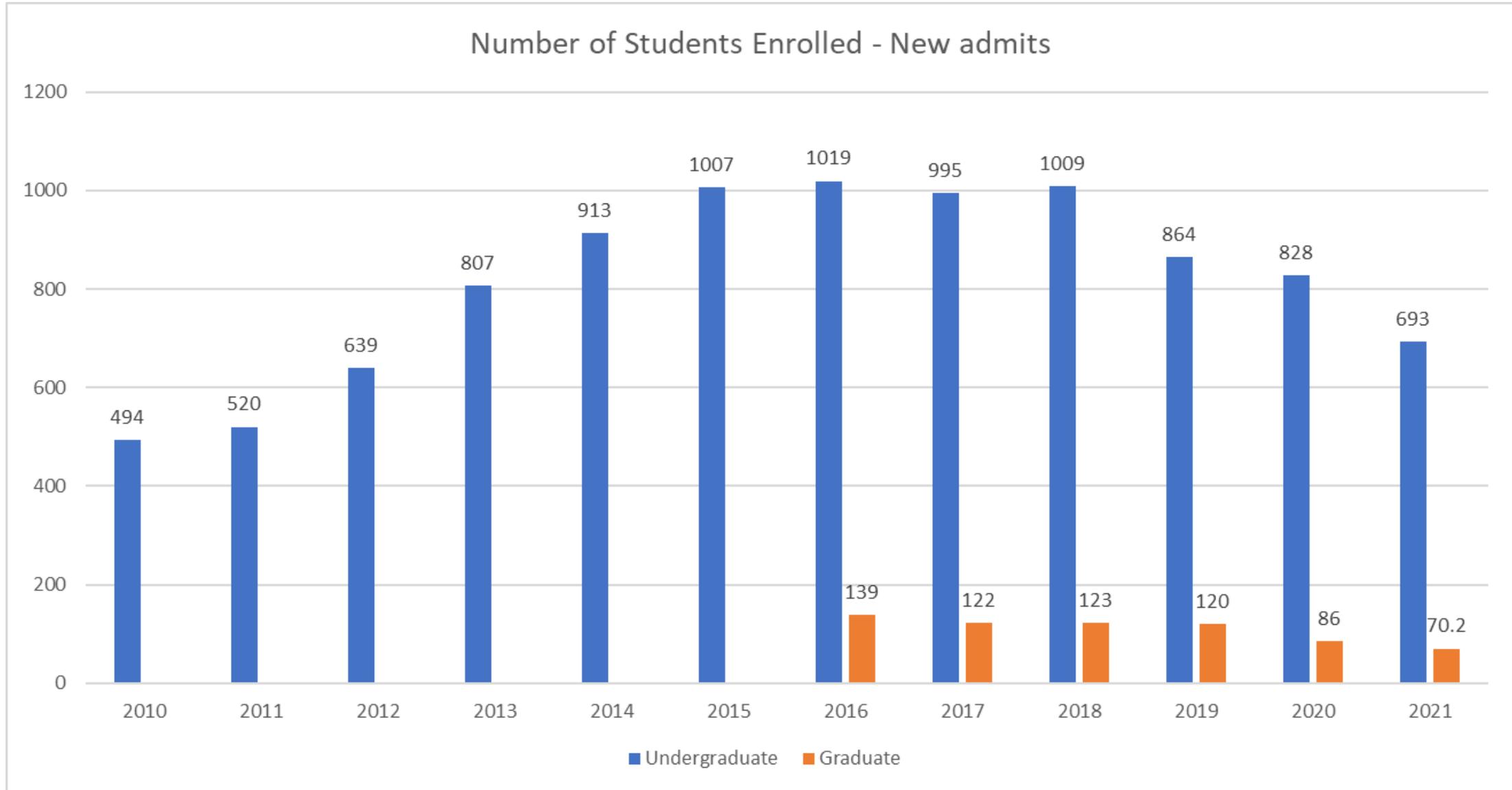
- ENROLLMENT TRENDS
  - GRADUATION RATES
  - ACHIEVEMENT GAPS AND INTERVENTIONS TO ADDRESS THEM
  - ABET PREPARATION AND SCHEDULE
-

# NEW STUDENT ENROLLMENT TRENDS



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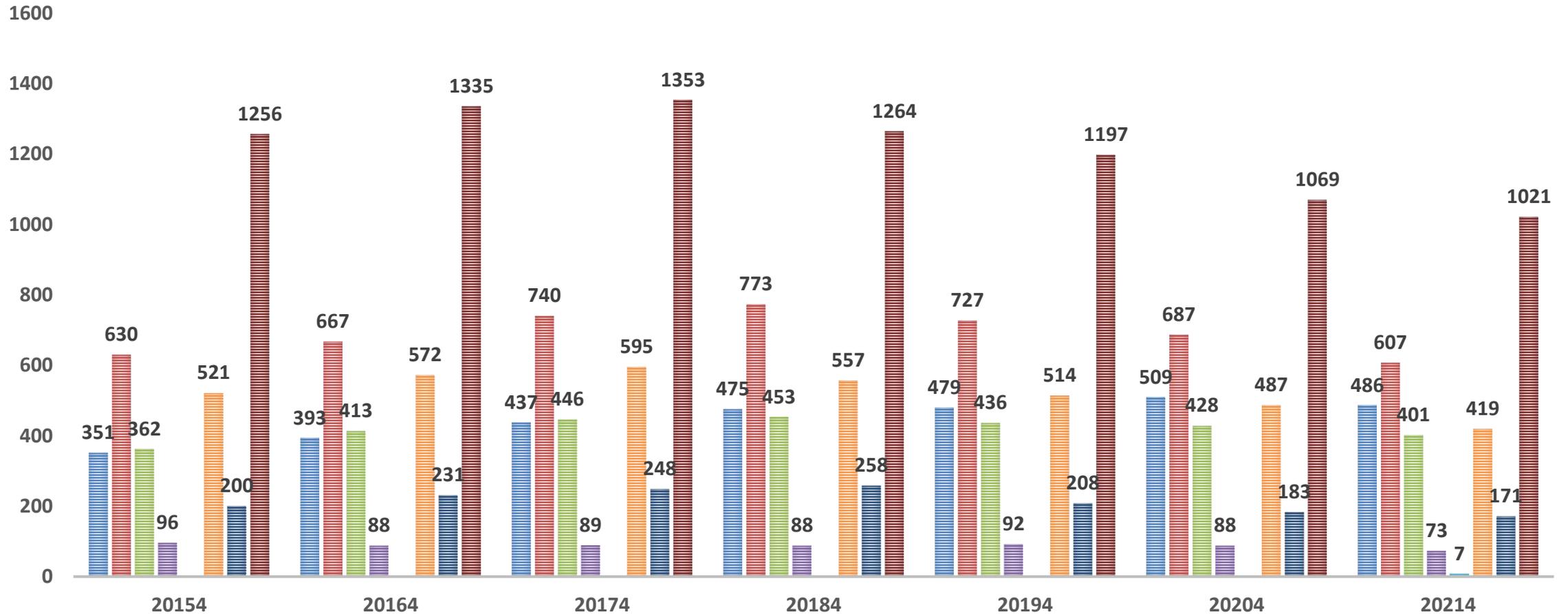
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# UNDERGRADUATE ENROLLMENT - FALL



■ AEROSPACE ENGINEERING   
 ■ CIVIL ENGINEERING   
 ■ COMPUTER ENGINEERING   
 ■ CONSTRUCTION ENGINEERING  
■ CONSTRUCTION MANAGEMENT   
 ■ ELECTRICAL ENGINEERING   
 ■ ENVIRONMENTAL ENGINEERING   
 ■ MECHANICAL ENGINEERING



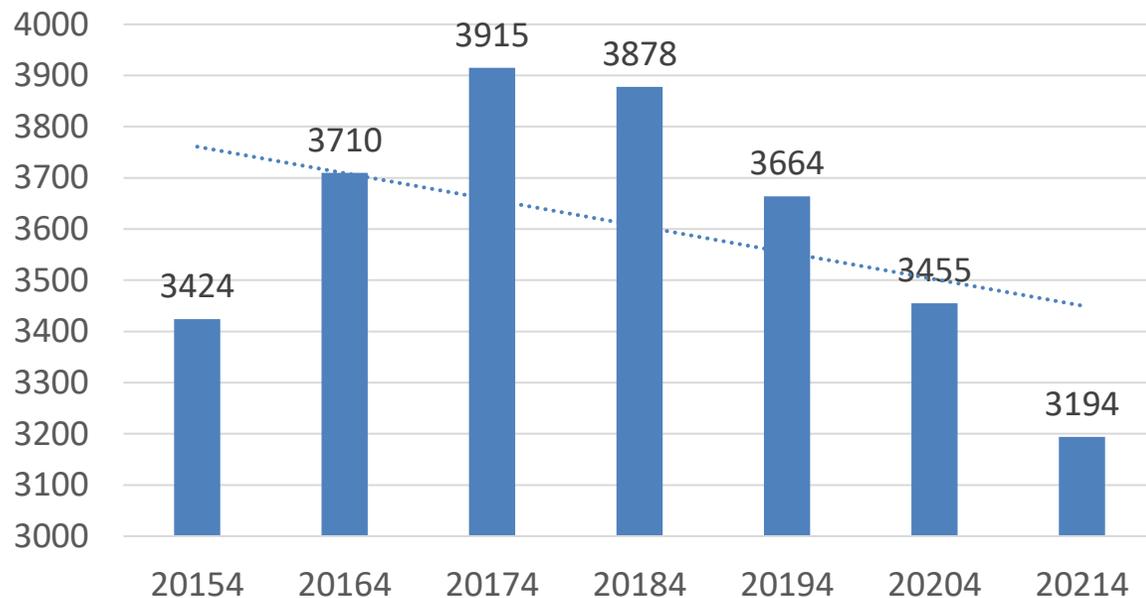
# ENROLLMENT GROWTH - FALL



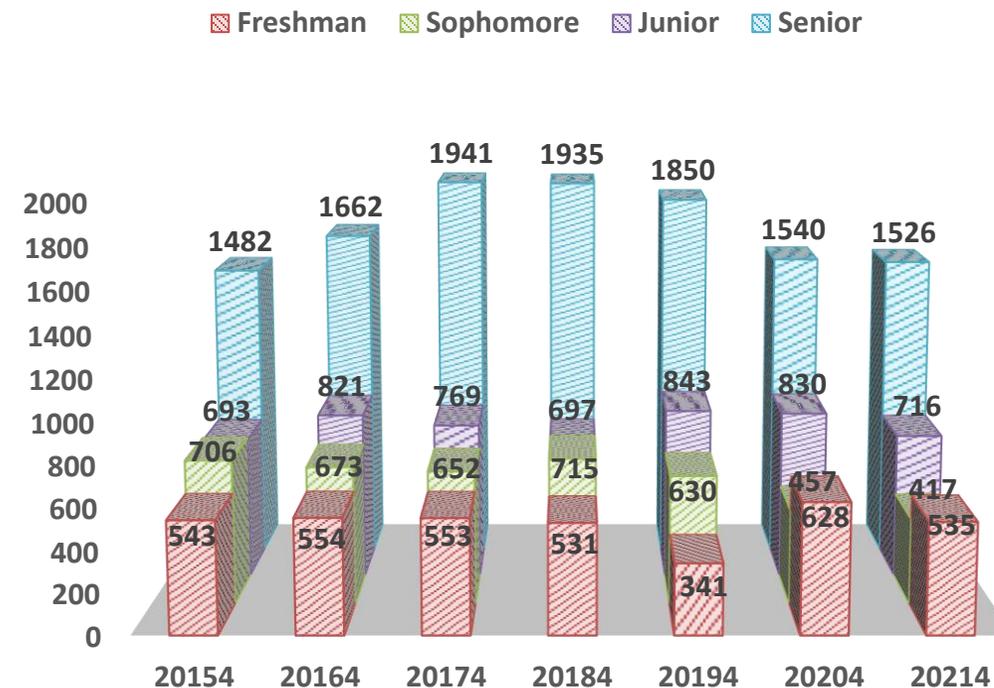
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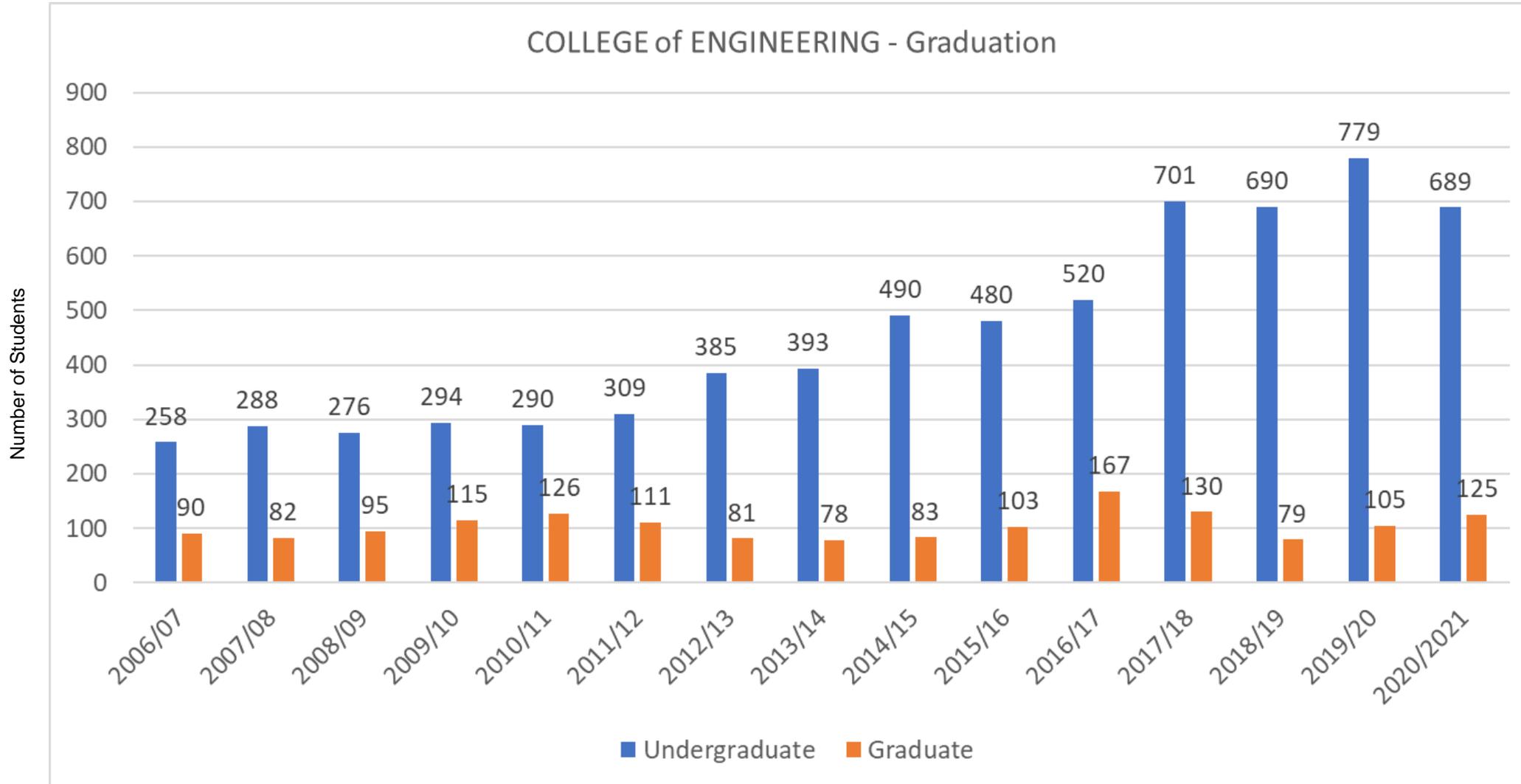
Enrollment Growth



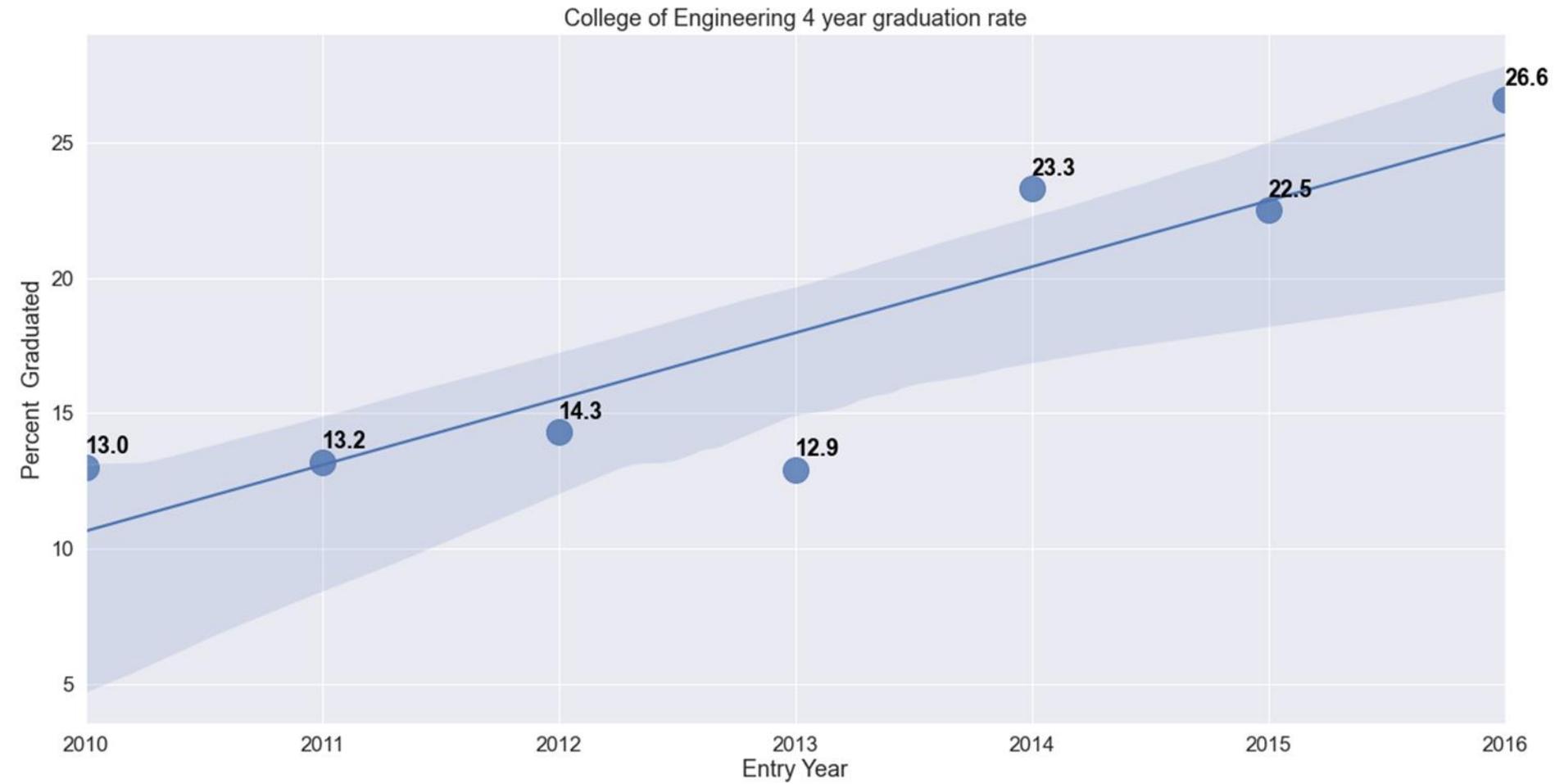
ENROLLED STUDENTS



# GRADUATION TRENDS



# GRADUATION RATES INCREASED

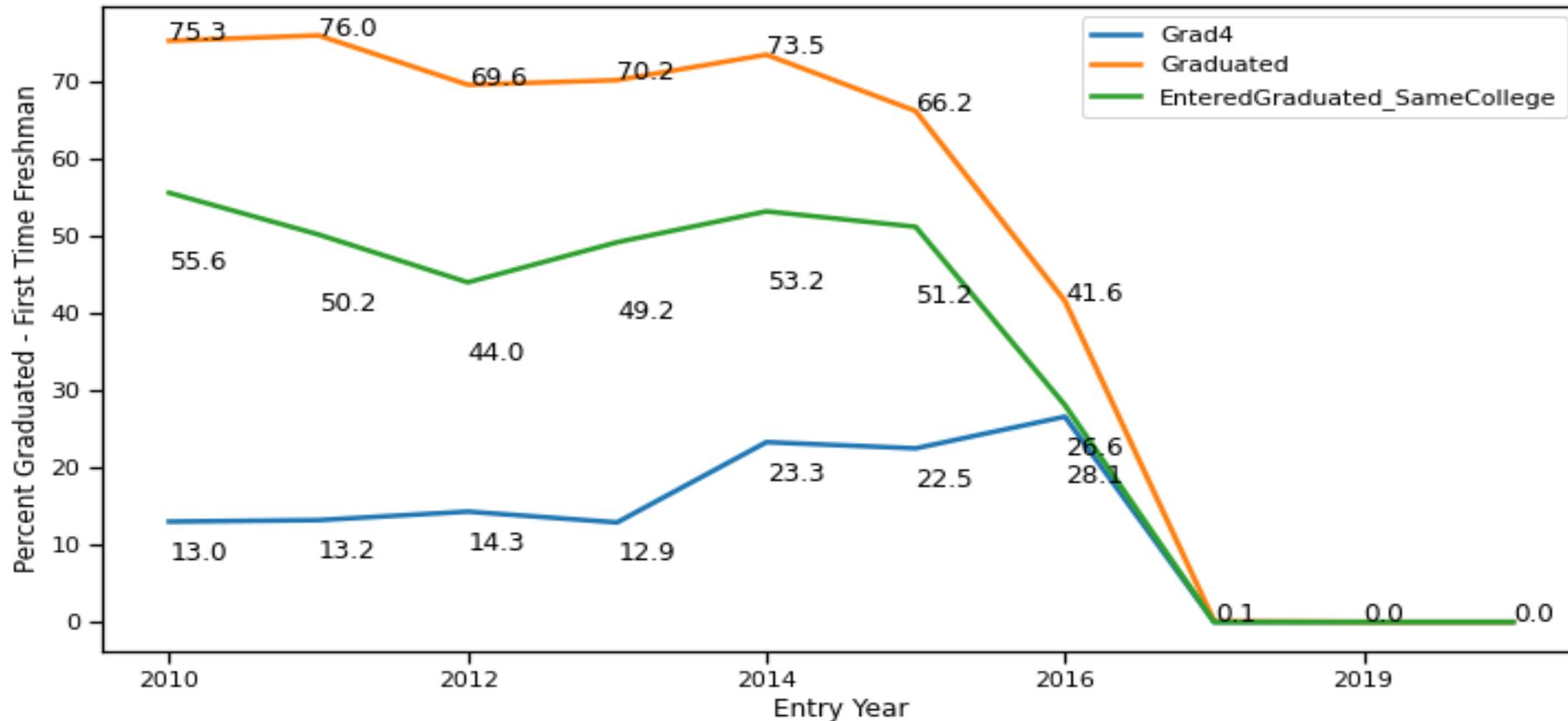


# GRADUATION RATES (SDSU AND ENGINEERING)



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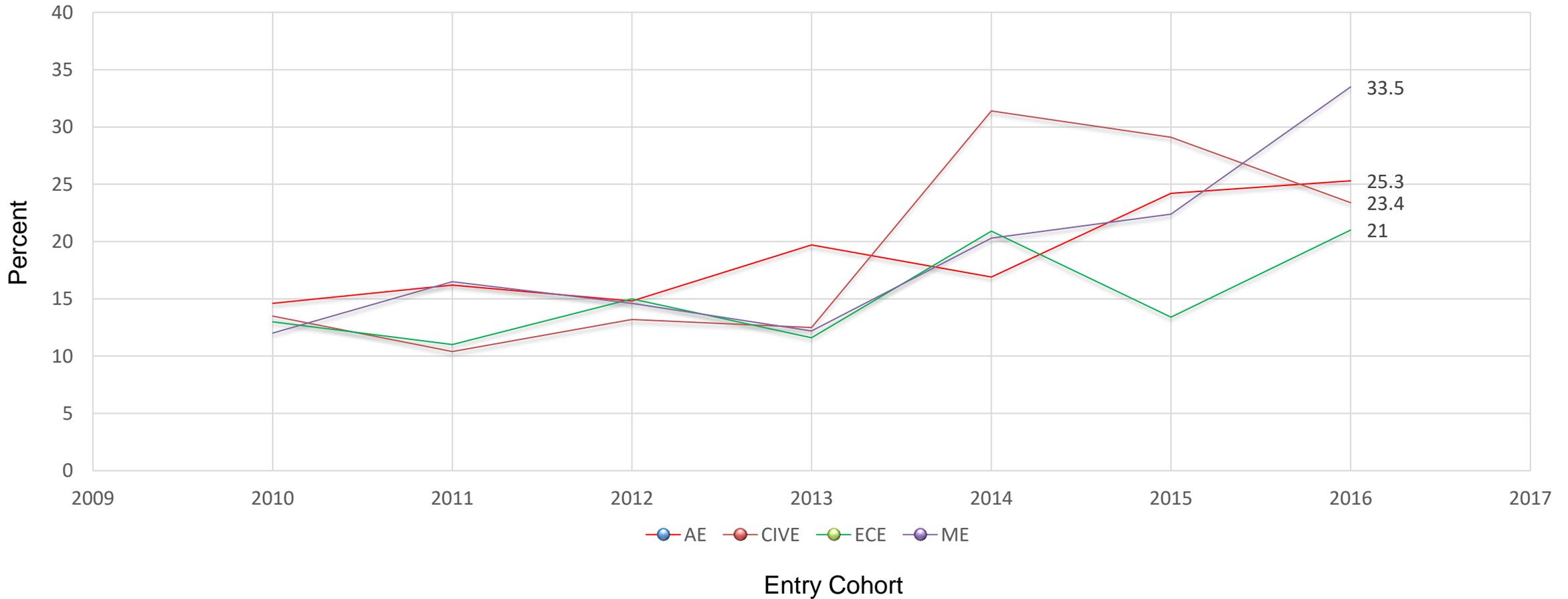
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# 4 YEAR GRAD PERCENTAGE (DEPARTMENTS)



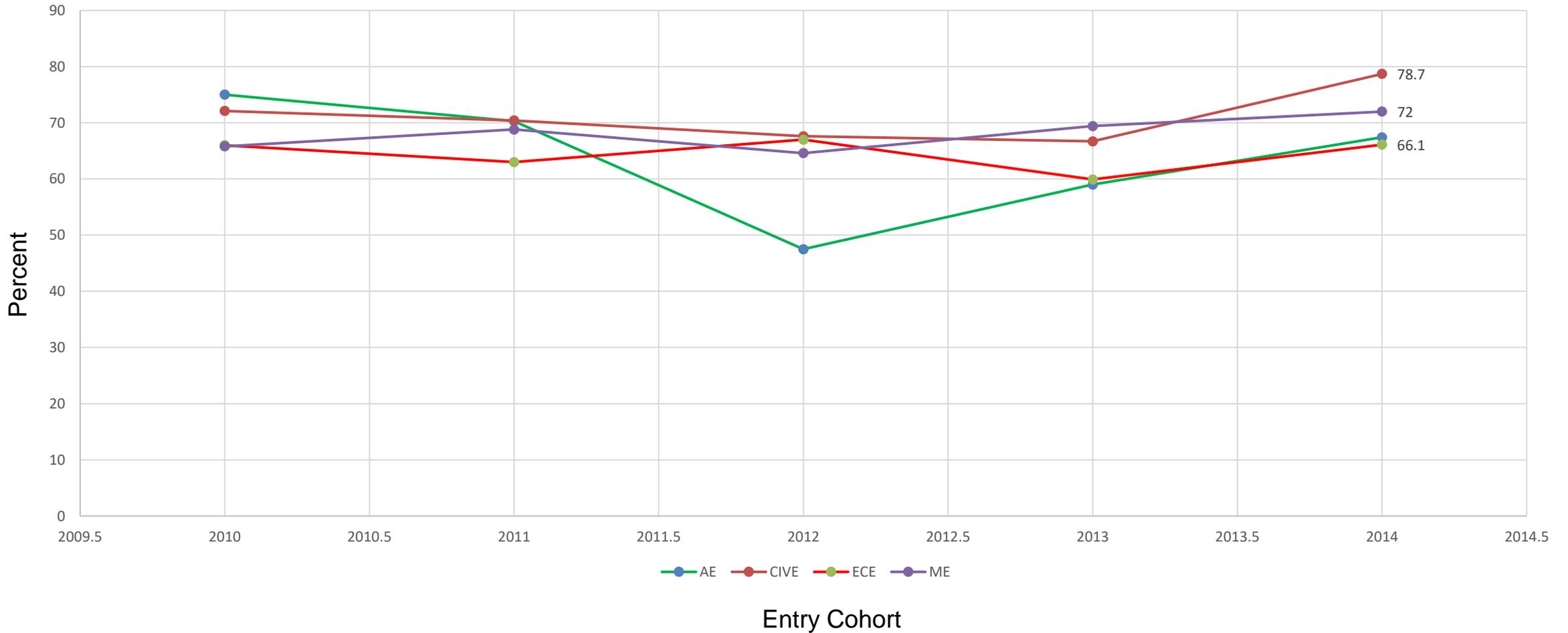
## 4 Year Grad Percentage



# 6 YEAR GRAD PERCENTAGE (DEPARTMENTS)



6 Year Grad Percentage

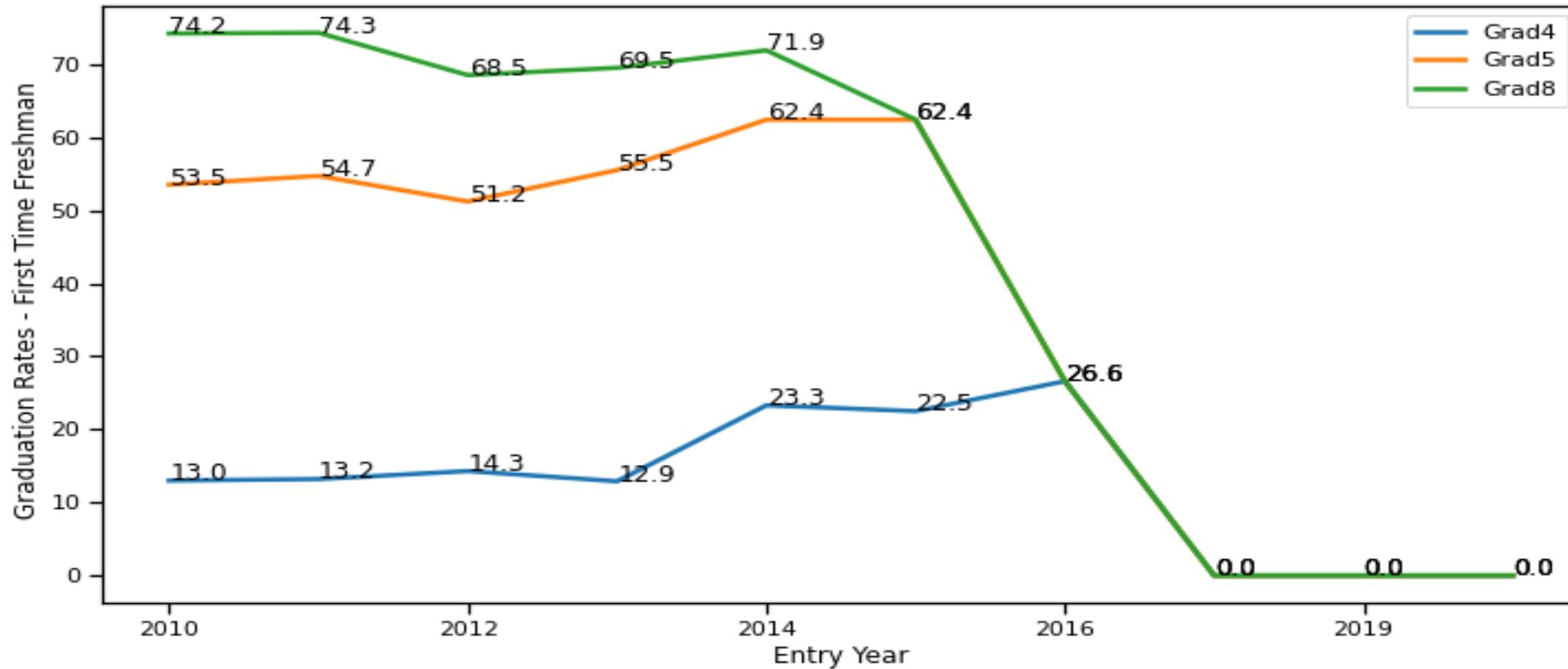


# GRADUATION RATES (4-, 5-, 8-YEAR)



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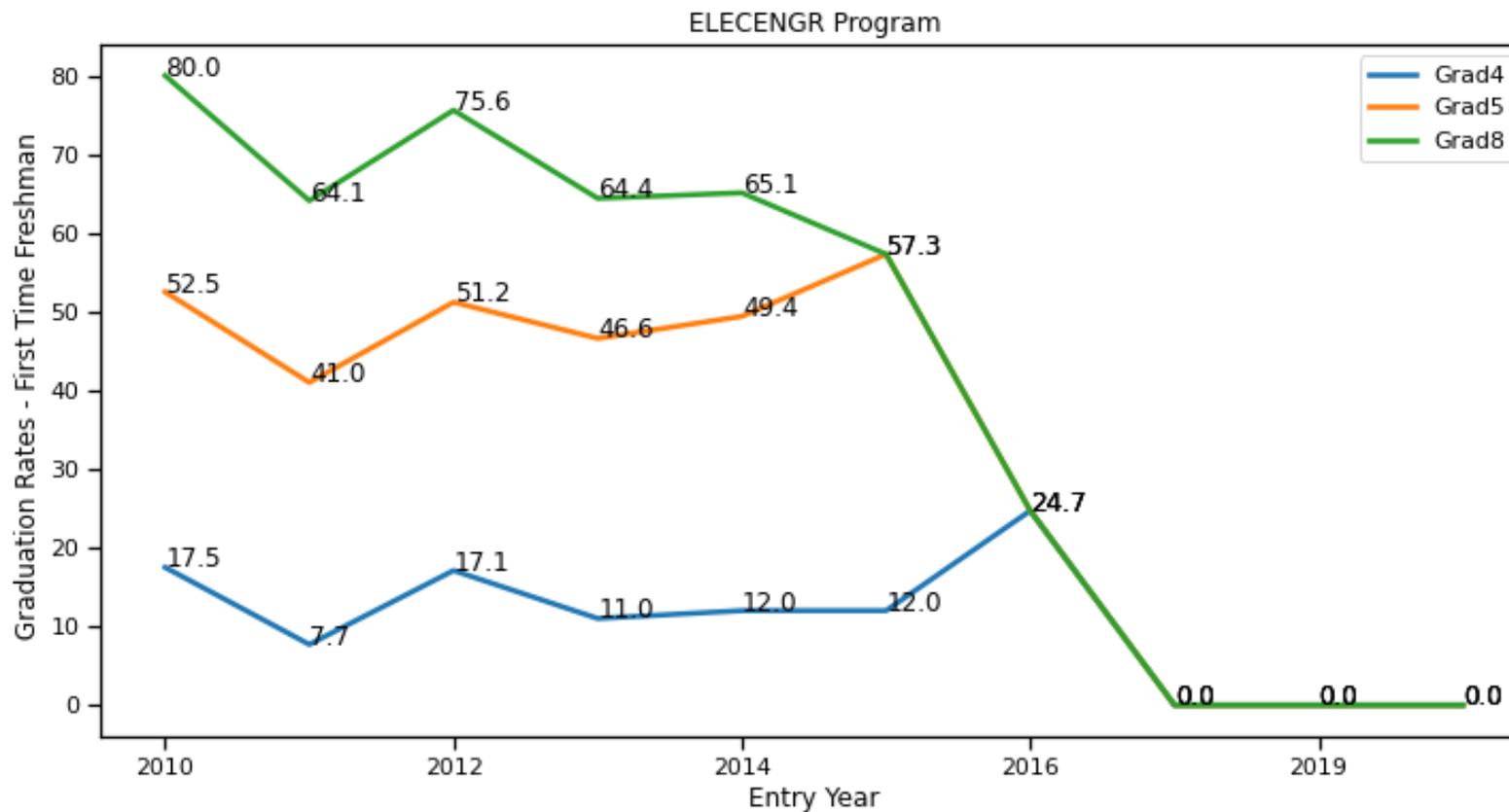


# ELECTRICAL ENGINEERING GRAD RATES



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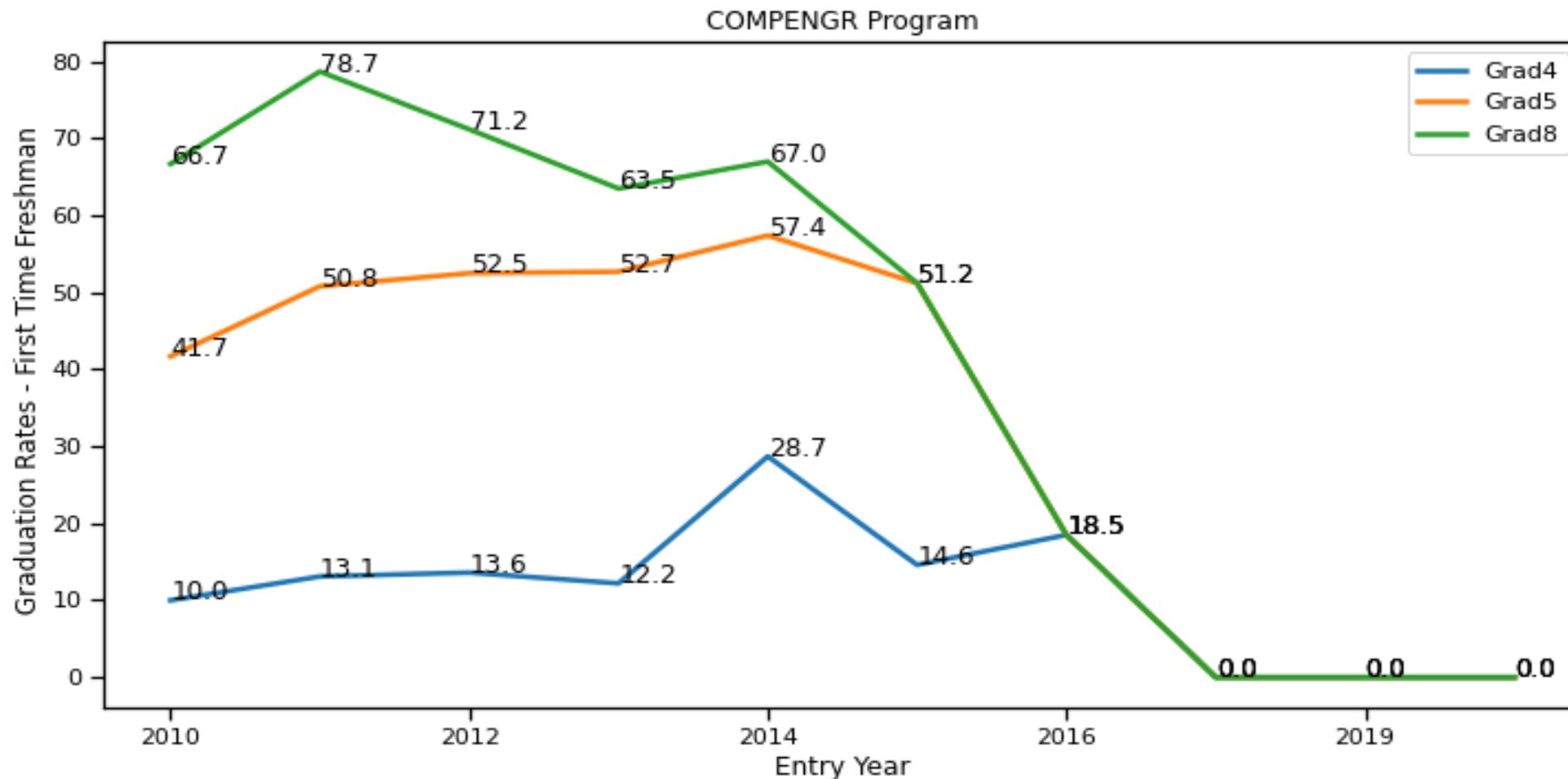


# COMPUTER ENGINEERING GRAD RATES



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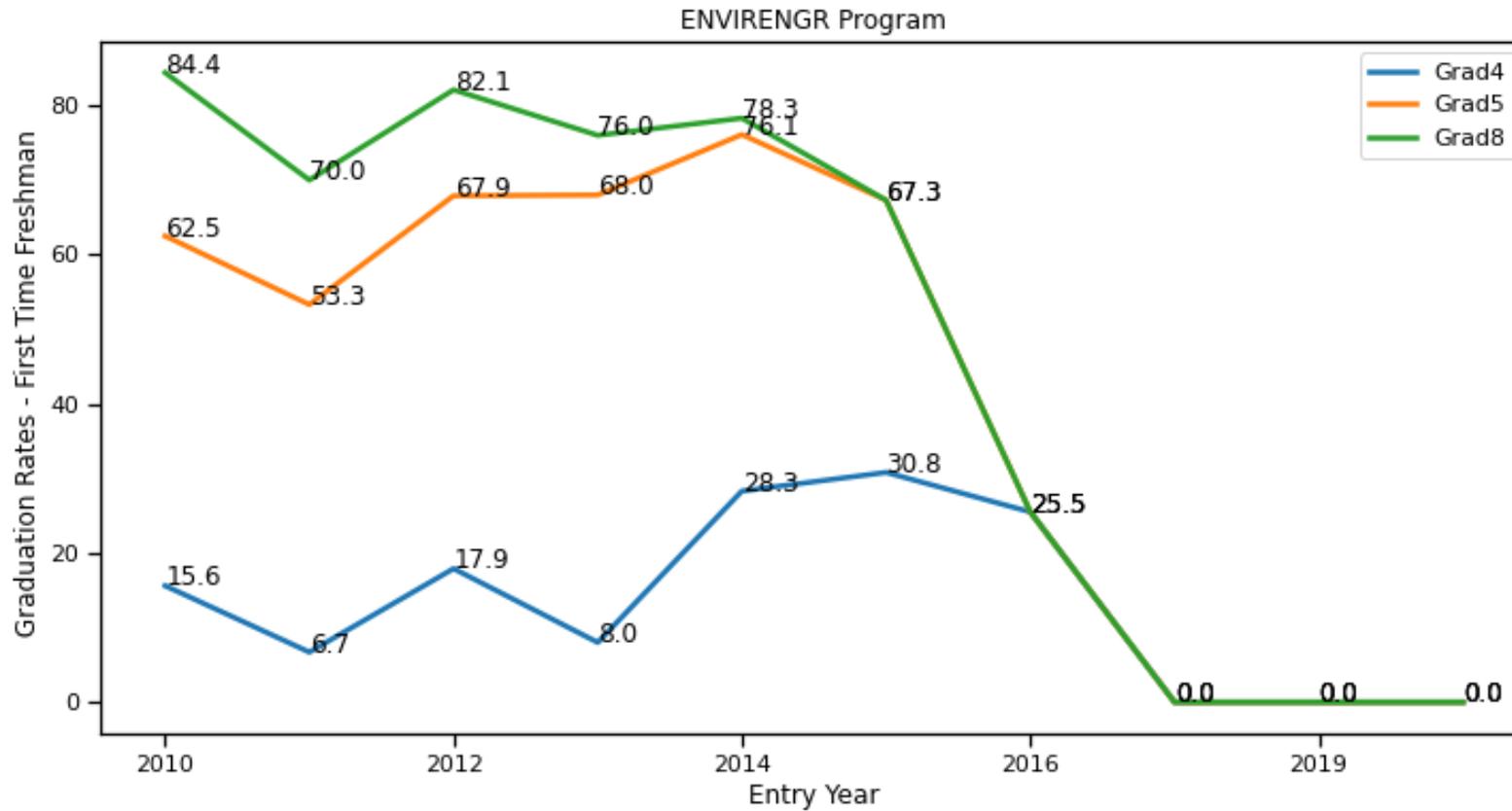


# ENVIRONMENTAL ENGINEERING GRAD RATES



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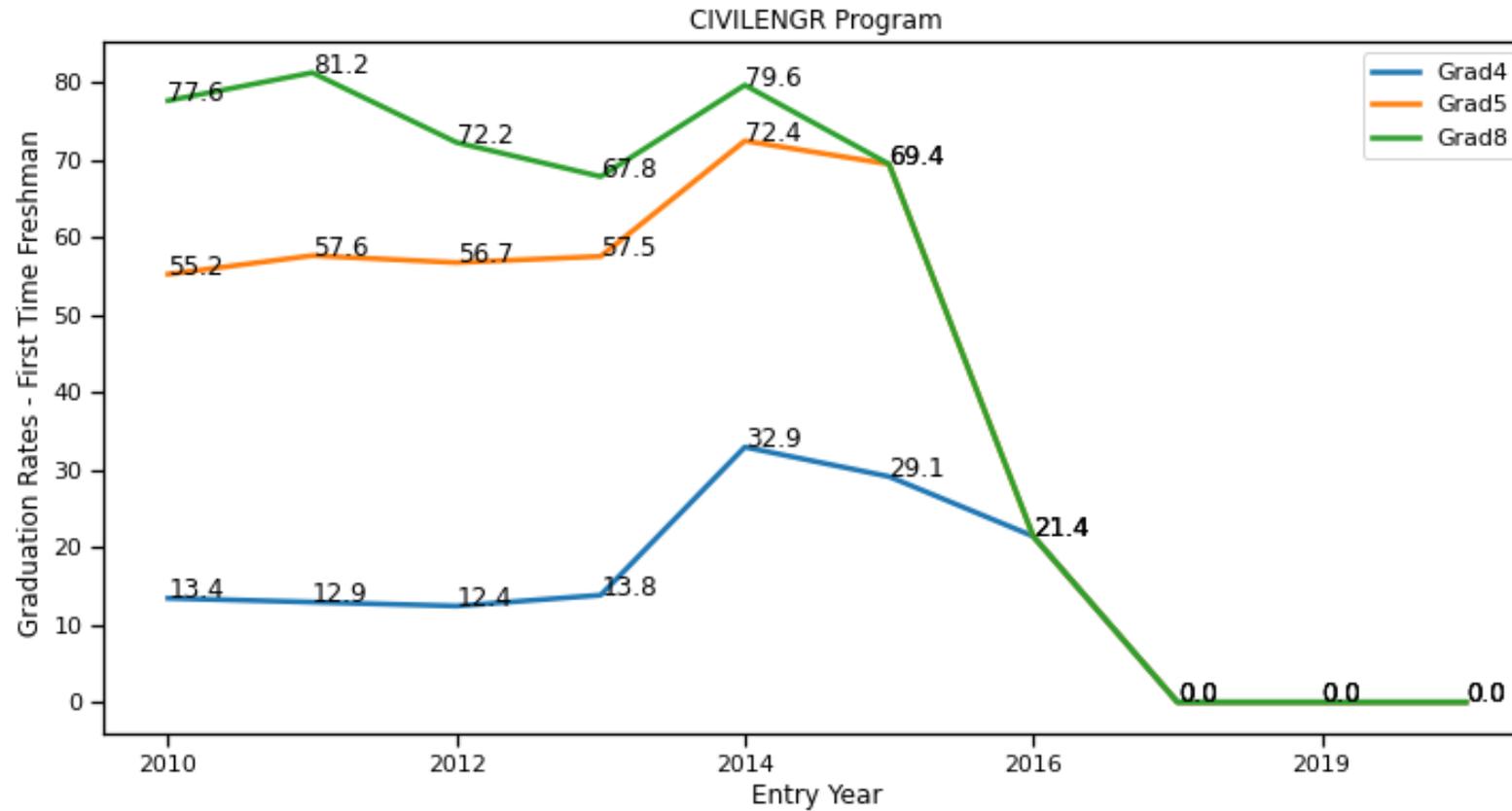


# CIVIL ENGINEERING GRAD RATES



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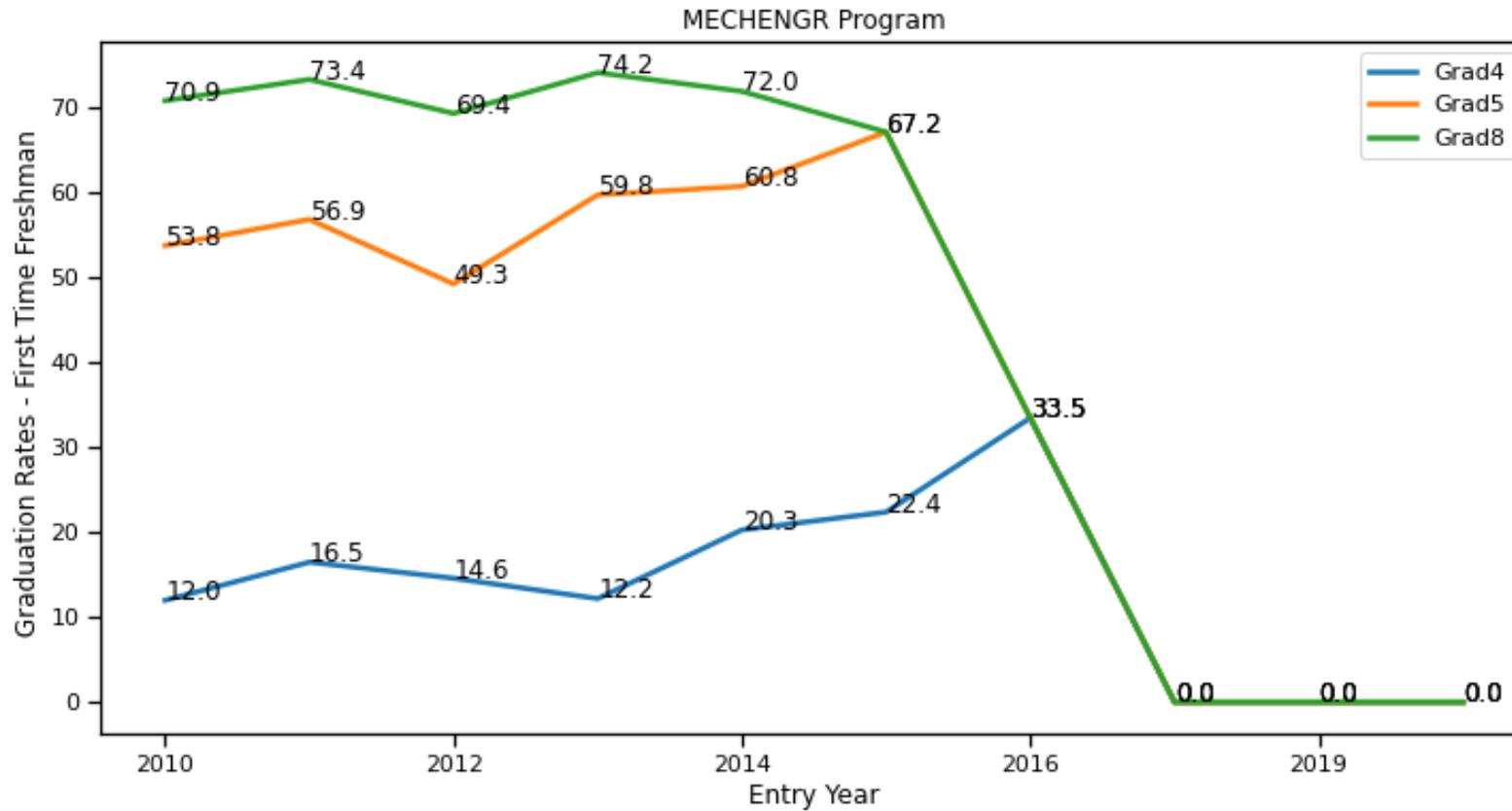


# MECHANICAL ENGINEERING GRAD RATES



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# 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.

# ACHIEVEMENT GAP METRICS

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- We employ the following metrics at college, major and course level
  - DFW rates for URM and nonURM students
  - Average GPA for URM and nonURM students
- While we work and improve the students success across the college, we are also working on addressing the achievement gaps between student demographics.

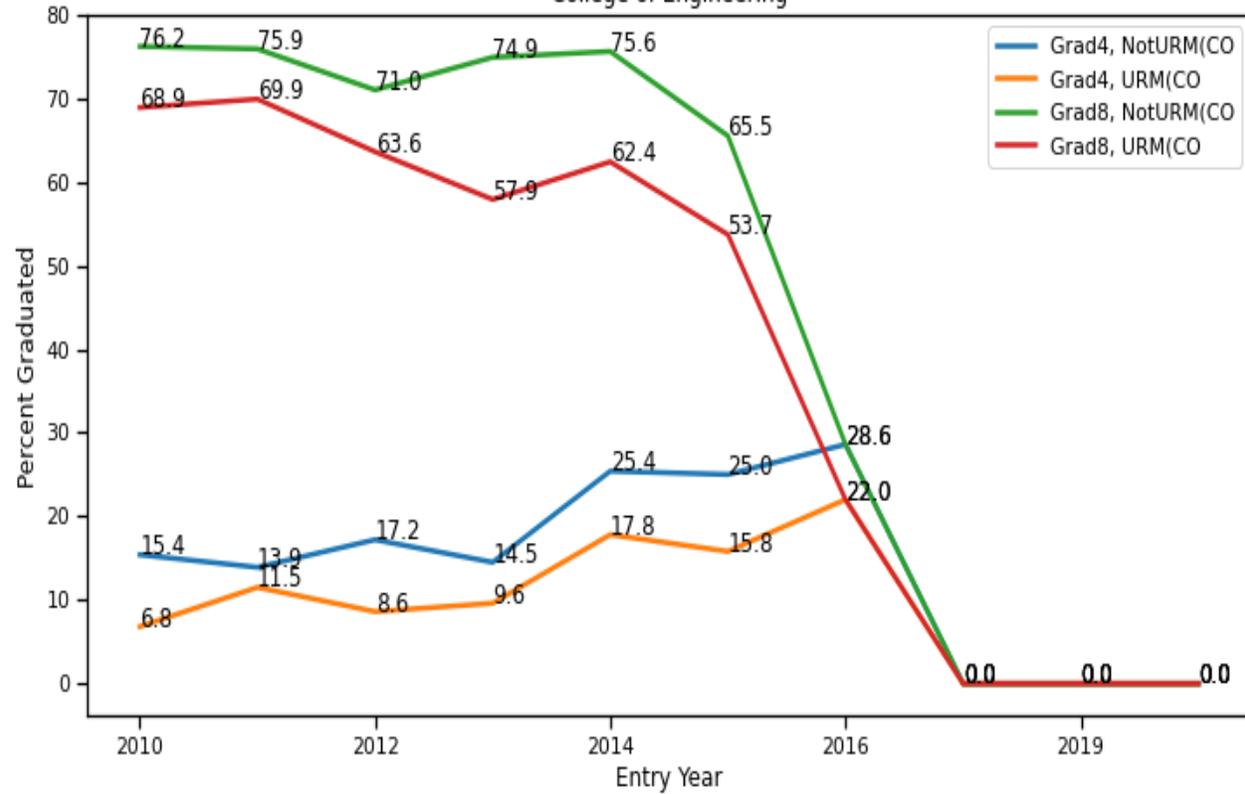
# GRADUATION ACHIEVEMENT GAPS



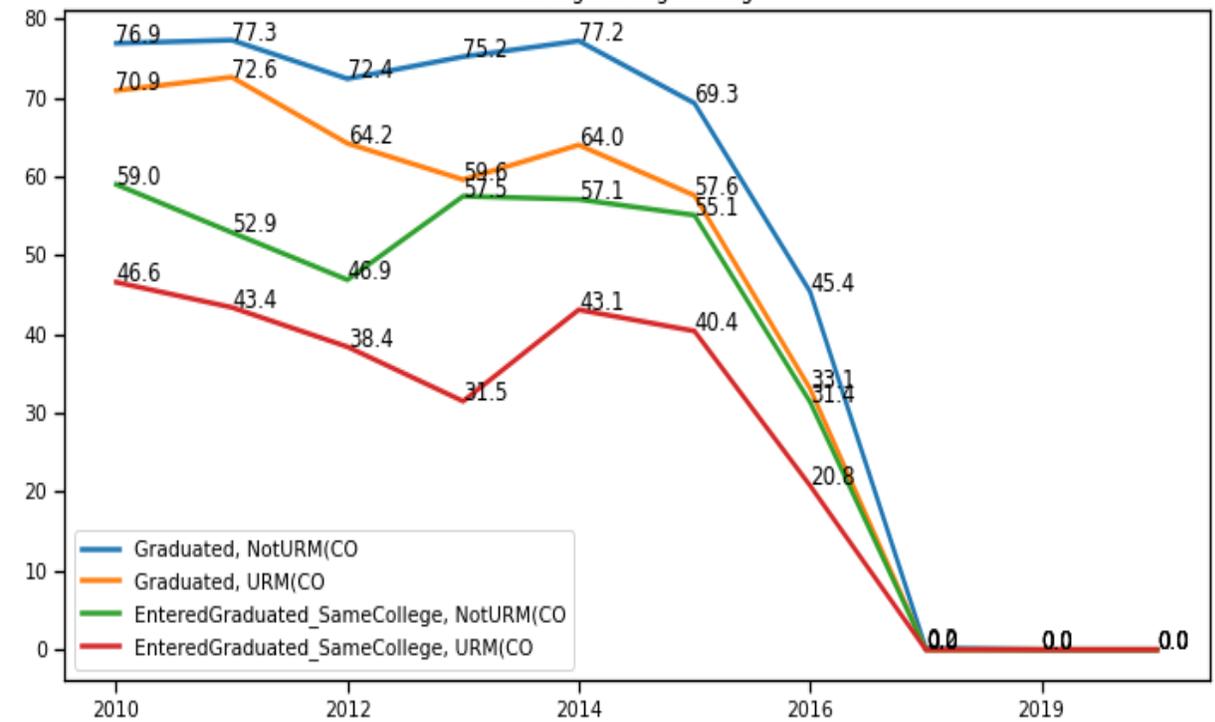
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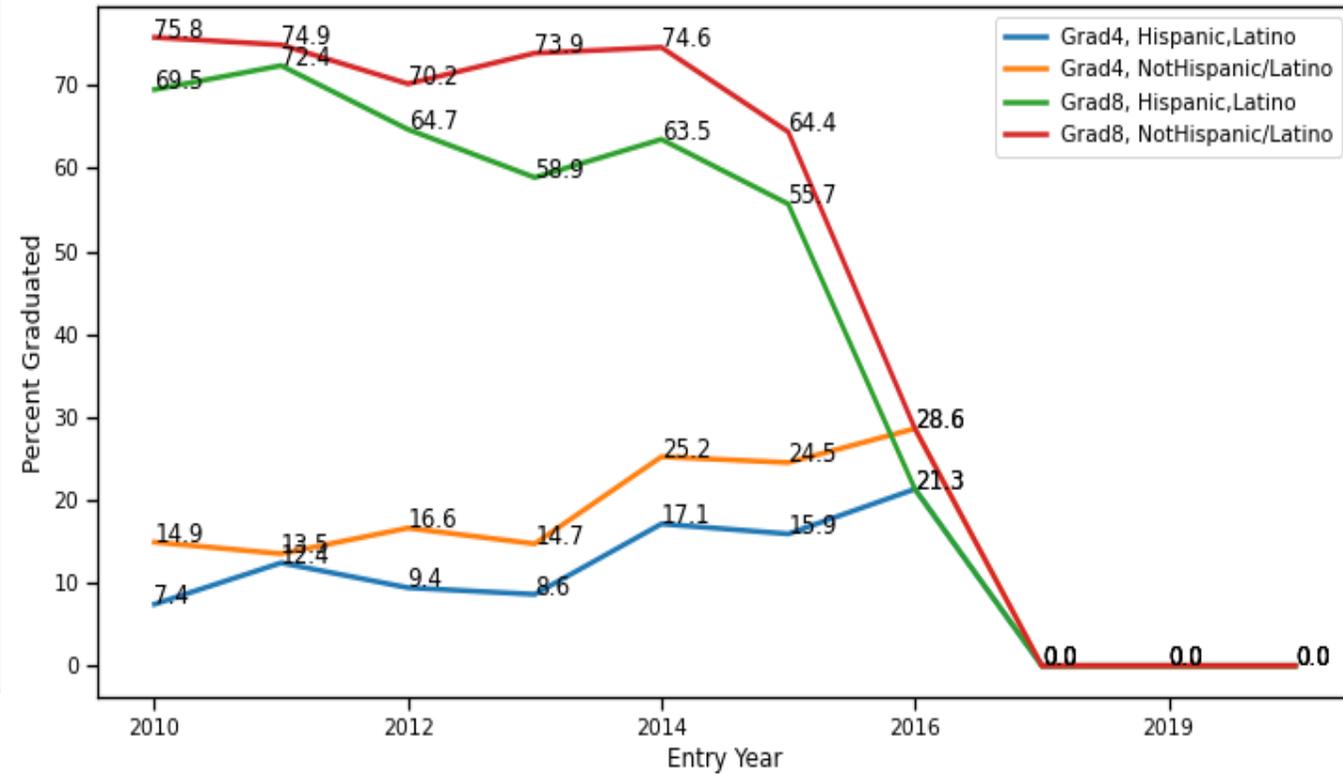
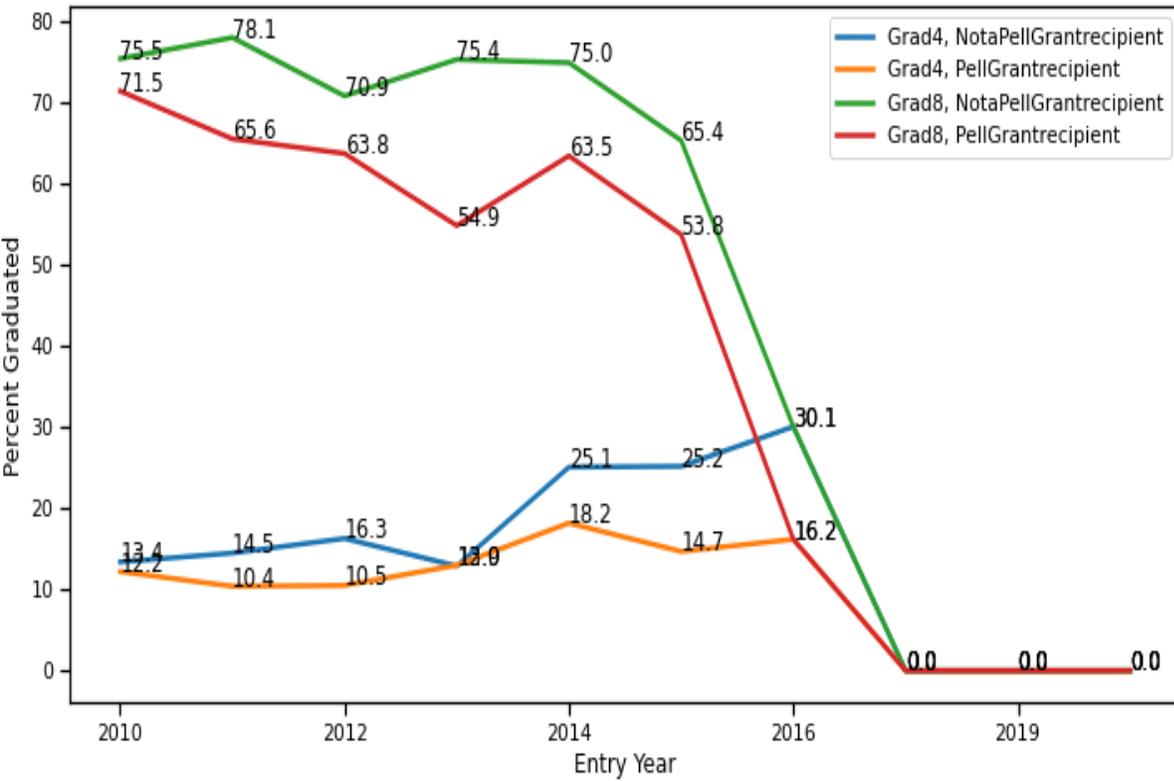


# GRADUATION ACHIEVEMENT GAPS



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# INTERVENTIONS

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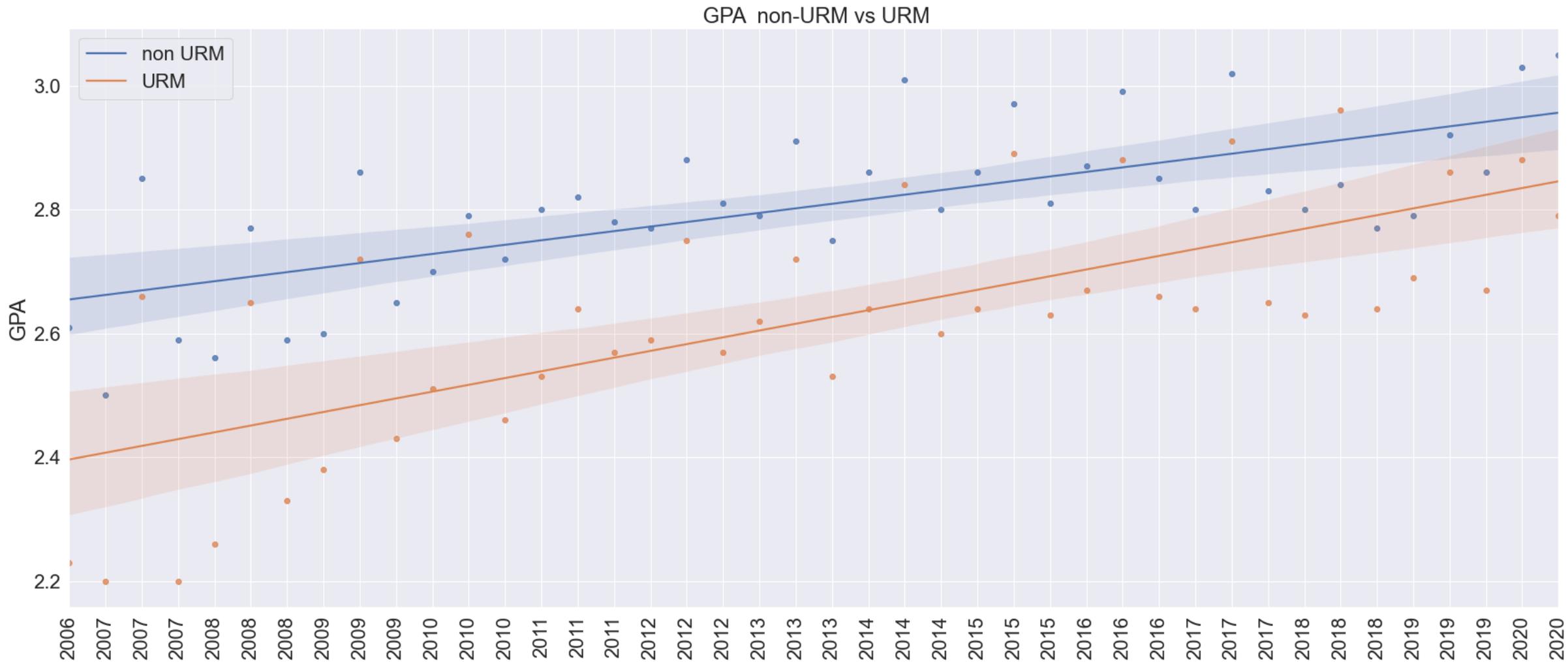
- Closed loop tutoring
- Recitation hours
- Supplemental instruction
- Advising
- Bridge programs

# COLLEGE AVERAGE GPA OVER TIME



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# ABET PREPARATION AND SCHEDULE

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- ABET visit will be virtual in 2021-2022 cycle.
- Visit is scheduled for **October 3-5, 2021.**
- Self Study Reports submitted ahead of time, before July 1.
- ABET Assigned a team chair and review team.
- ABET Review Folders have been created and department materials added on schedule
  - Transcript Analysis (**Deadline 8/27/2021**)
  - Evidence Available to PEV (**Deadline 8/27/2021**)
  - Laboratory Videos (**Deadline 9/10/2021**)
  - Annotated Images of Equipment (**Deadline 9/10/2021**)
- Faculty is encouraged to be available for ABET meetings the week before the review and during the review.

# ABET PREPARATION AND SCHEDULE (CONT...)



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	Transcript Analysis (Updated Deadline 8/27/2021)	Evidence Available to PEV (Updated Deadline 8/27/2021)	Laboratory Videos (Updated Deadline 9/10/2021)	Annotated Images of Equipment (Updated Deadline 9/10/2021)
Aerospace Engineering	Uploaded	Assessment Course Materials SLO Index needs to be created	Uploaded	Uploaded
Civil Engineering				
Computer Engineering	Uploaded	Meeting minutes Assessment Course Materials SLO Index needs Update	Uploaded	Uploaded
Construction Engineering				
Electrical Engineering	Uploaded	Meeting minutes Assessment Course Materials SLO Index needs Update	Uploaded	Uploaded
Environmental Engineering				
Mechanical Engineering	Uploaded	Assessment Course Materials Outcomes Syllabuses	Uploaded	Uploaded



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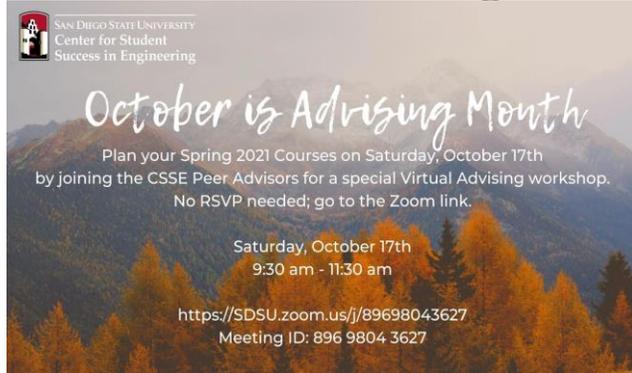
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# STUDENT ADVISING UPDATE

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# CSSE and CoE Student Affairs Virtual & In Person Student Success Initiatives

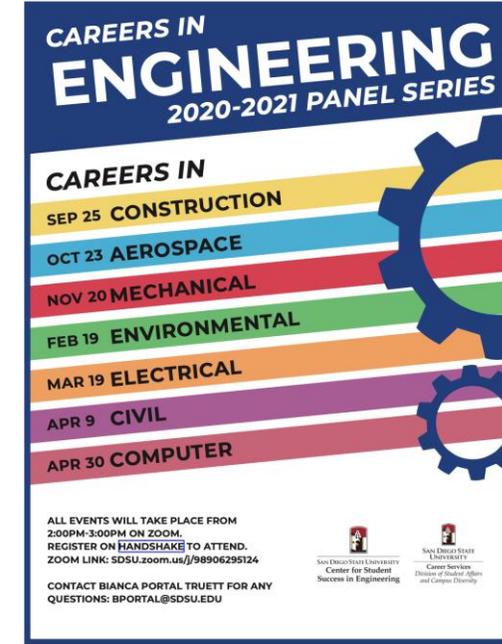
CSSE Advisors to provide in person  
and remove advising



All CSSE Advisors using SDSU Navigate  
(EAB) for appointments



CoE Student Affairs team to offer option of in-person or virtual appointments



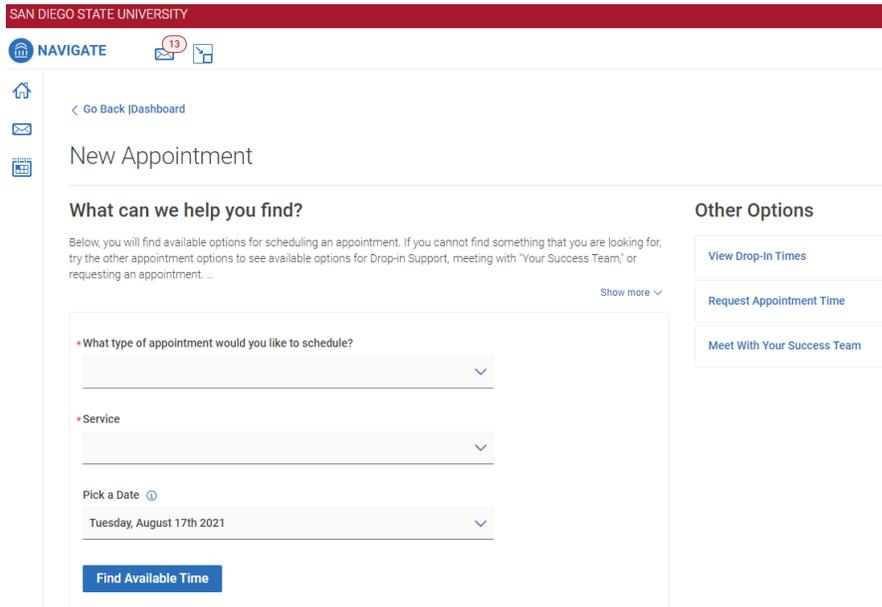
Career Panels to be held virtual in fall  
Other events in person

Saturday and evening advising options



Fall virtual & in-person tutoring begins within first 2 weeks of class

- Dept. Chairs identify course needs
- MESA facilitates tutoring
- Tutoring in E221c & remote





# SDSU Advising Model



SDSU Strategic Plan, Priority #5



STUDENTS AT  
OUR CORE

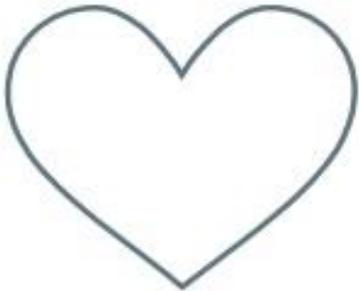
- Decentralized
  - Office of Evaluations (no more Advising)
- Holistic
- Proactive
- Coordinated Care Network
  - Coordinated Care Advisors
  - Major Advisors in Colleges



# The Coordinated Care Network



SDSU Strategic Plan, Priority #5



STUDENTS AT  
OUR CORE

- *Academic/General Advisors*
- *Deans*
- *Faculty - Instructors*
- *Office of Evaluations*
- *Financial Aid & Scholarships*
- *Registrar*
- *Directors*
- *Counselors*
- *Academic Coaches*
- *Peer Advisors/Mentors*
- *Etc.*

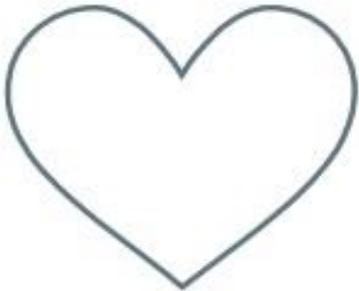
***All of Us!***



# College of Engineering Advising Structure



SDSU Strategic Plan, Priority #5



STUDENTS AT  
OUR CORE

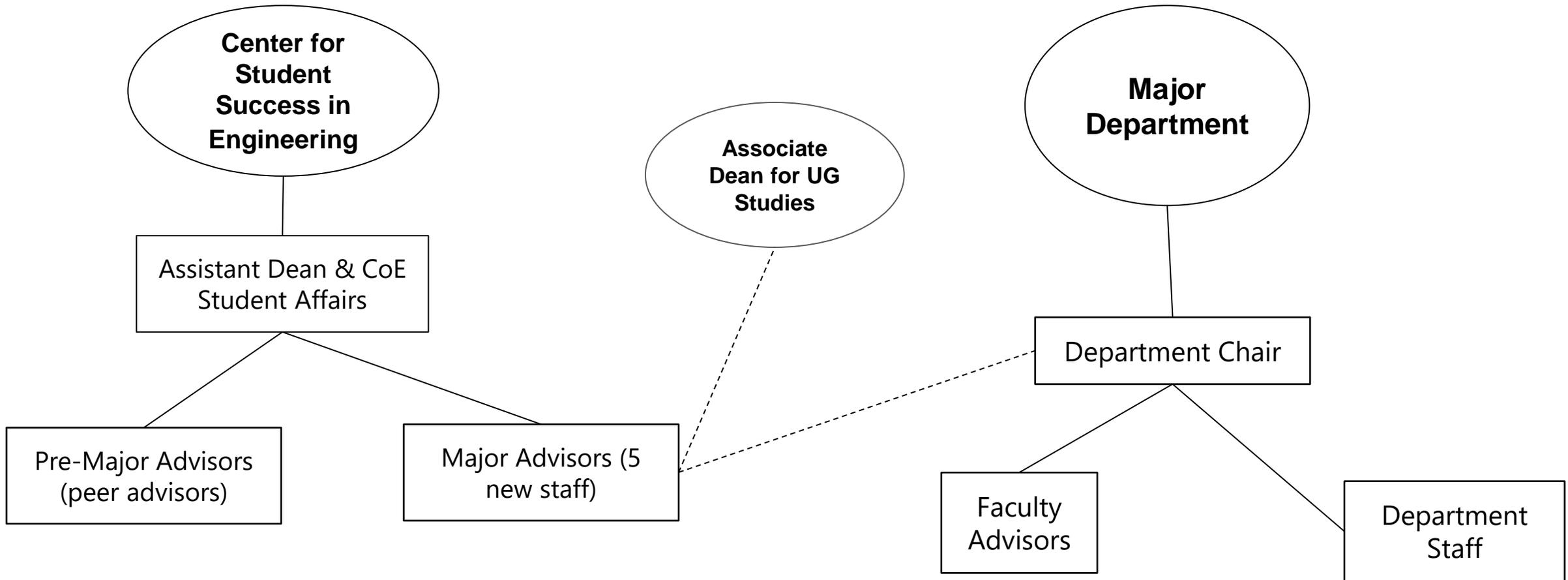
- Faculty Advisors
  - course material
  - undergraduate research
  - career, i.e. appropriate electives
  - post-baccalaureate plans
- Major Advisors - new
  - course planning, meeting impaction, graduation requirements, GE, Master Plans, Appointment Campaigns, etc.
- Pre-Major Advisors
  - Support major advisors
  - Assist students with advising tools (degree evaluation, MyMap, Curriculum guide, etc.)



# SDSU Flex and CoE Student Advising



For student appointments with all CSSE Advisors, login to <https://sdsu.campus.eab.com> with SDSU ID and password  
For student appointments with Faculty Advisors, contact directly





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# RESEARCH & GRADUATE PROGRAM UPDATE

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### RESEARCH & GRADUATE PROGRAM UPDATE:

- HISTORIC MAXIMUM OF OUR FACULTY RESEARCH FUNDING (OF >\$10M) IS ACHIEVED
  - UPDATE ON COE FACULTY SCHOLARLY ACTIVITY (PUBLICATIONS AND REFERENCES)
  - UPDATE ON SUCCESSFUL COMPLETION OF OUR JDP 10-YEAR REVIEW
  - A BREAKTHROUGH IN JDP FINANCIAL AGREEMENT WITH UCSD IS ACHIEVED: UCSD ADVISOR FEES HAVE BEEN ELIMINATED AND NEW FLAT FEE FOR STAFF SUPPORT HAS BEEN ESTABLISHED
  - UPDATE ON RECORD ENROLLMENT IN JDP
  - UPDATE ON JDP TUITION FEES
  - UPDATE ON MS PROGRAMS ENROLLMENT
-

# RESEARCH DATA - AWARDS



Dept	FY 2020				FY2021				Change (%)	
	Direct	F&A	Total	# Awards	Direct	F&A	Total	# Awards	Total	# Awards
AE	\$701,926	\$183,239	\$885,165	11.34	\$913,489	\$83,397	\$996,886	8	12.6	-29.5
CCEE	\$1,152,923	\$326,211	\$1,479,134	14	\$2,285,938	\$634,606	\$2,920,543	14.99	97.4	7.1
ECE	\$1,405,819	\$591,556	\$1,997,375	20	\$2,457,344	\$621,800	\$3,079,144	12.41	54.2	-38.0
ME	\$2,471,550	\$782,095	\$3,253,645	22.25	\$2,272,340	\$594,412	\$2,866,751	21.5	-11.9	-3.4
Dean's Office	\$209,294	\$57,178	\$266,472	2	\$533,335	\$26,665	\$560,000	5	110.2	150.0
<b>COE</b>	<b>\$5,941,512</b>	<b>\$1,940,279</b>	<b>\$7,881,791</b>	<b>69.59</b>	<b>\$8,462,444</b>	<b>\$1,960,880</b>	<b>\$10,423,324</b>	<b>61.9</b>	<b>32.2</b>	<b>-11.1</b>

# RESEARCH DATA - AWARDS

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- FY 2021
  - Direct - \$8,462,444.43
  - F&A - \$1,960,879.63
  - Total - \$10,423,3424.06
  - 38 PIs with one or more awards

# ACTIVE GRANTS (AS OF JULY 5, 2021)



<b>Dept</b>	<b># Projects</b>	<b># PIs</b>	<b>Total Budget</b>	<b>Availabel Balalce</b>
<b>AE</b>	16	7	\$3,307,601.00	\$1,253,774.28
<b>CCEE</b>	21	10	\$6,279,360.00	\$2,192,847.53
<b>ECE</b>	28	13	\$8,792,120.00	\$3,925,517.87
<b>ME</b>	35	19	\$9,905,528.96	\$2,617,586.63
<b>Dean's Office</b>	7	2	\$1,318,398.00	\$14,104.82
<b>COE</b>	<b>107</b>	<b>50</b>	<b>\$29,603,007.96</b>	<b>\$10,003,831.13</b>

# RESEARCH DATA - PROPOSAL SUBMISSION



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Dept	FY 2020	FY2021	Change (%)
	# Proposals submitted	# Proposals submitted	# Proposals submitted
AE	22.50	31.20	38.7
CCEE	35.49	34.22	-3.6
ECE	47.54	41.57	-12.6
ME	51.49	65.76	27.7
Dean's Office	5.00	2.00	-60.0
<b>COE</b>	<b>162.02</b>	<b>174.75</b>	<b>7.9</b>

# RESEARCH DATA - SDSU



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College	TT/T (SP21)	Total Research Number Awarded	Total Direct Research Dollars Awarded	Total FA Research Dollars Awarded	Total Research Dollars Awarded	Total Non Research Number Awarded	Total Direct Non Research Dollars Awarded	Total FA Non Research Dollars Awarded	Total Non Research Dollars Awarded	Total Number Awarded	Total Dollars Awarded
<b>A&amp;L</b>	184	19.41	\$1,672,625	\$483,233	\$2,155,858	23.00	\$2,174,745	\$813,785	\$2,988,530	42.41	\$5,144,388
<b>BUS</b>	75	2.50	\$186,682	\$96,254	\$282,936	1.00	\$9,090	\$910	\$10,000	3.50	\$292,936
<b>EDU</b>	77	24.00	\$2,748,752	\$441,913	\$3,190,665	108.17	\$14,426,488	\$1,133,061	\$15,559,549	132.17	\$18,750,214
<b>ENG</b>	69	51.90	\$7,507,003	\$1,860,066	\$9,367,069	10.00	\$955,442	\$100,813	\$1,056,255	61.90	\$10,423,324
<b>HHS</b>	95	98.64	\$15,169,313	\$5,500,887	\$20,670,201	79.33	\$25,787,081	\$4,823,675	\$30,610,756	177.97	\$51,280,957
<b>PSFA</b>	109	6.25	\$207,469	\$79,061	\$286,530	6.00	\$196,245	\$18,791	\$215,036	12.25	\$501,566
<b>SCIENC</b>	175	204.05	\$28,455,162	\$10,865,639	\$39,320,801	25.67	\$2,400,452	\$263,969	\$2,664,420	229.72	\$41,985,222
<b>SDSUIV</b>	24	1.00	\$208,729	\$-	\$208,729	2.00	\$228,678	\$22,272	\$250,950	3.00	\$459,679

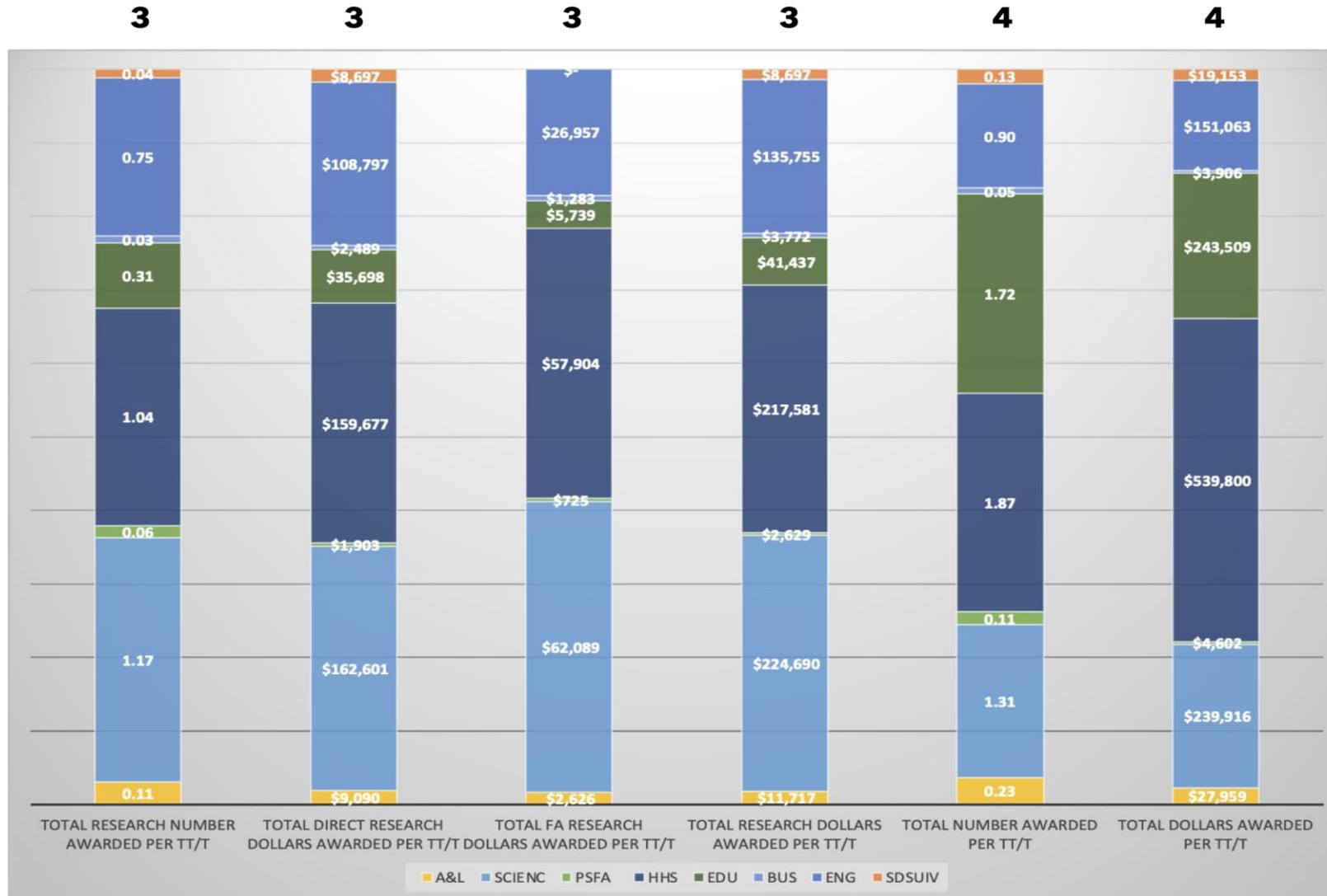


# RESEARCH DATA - SDSU



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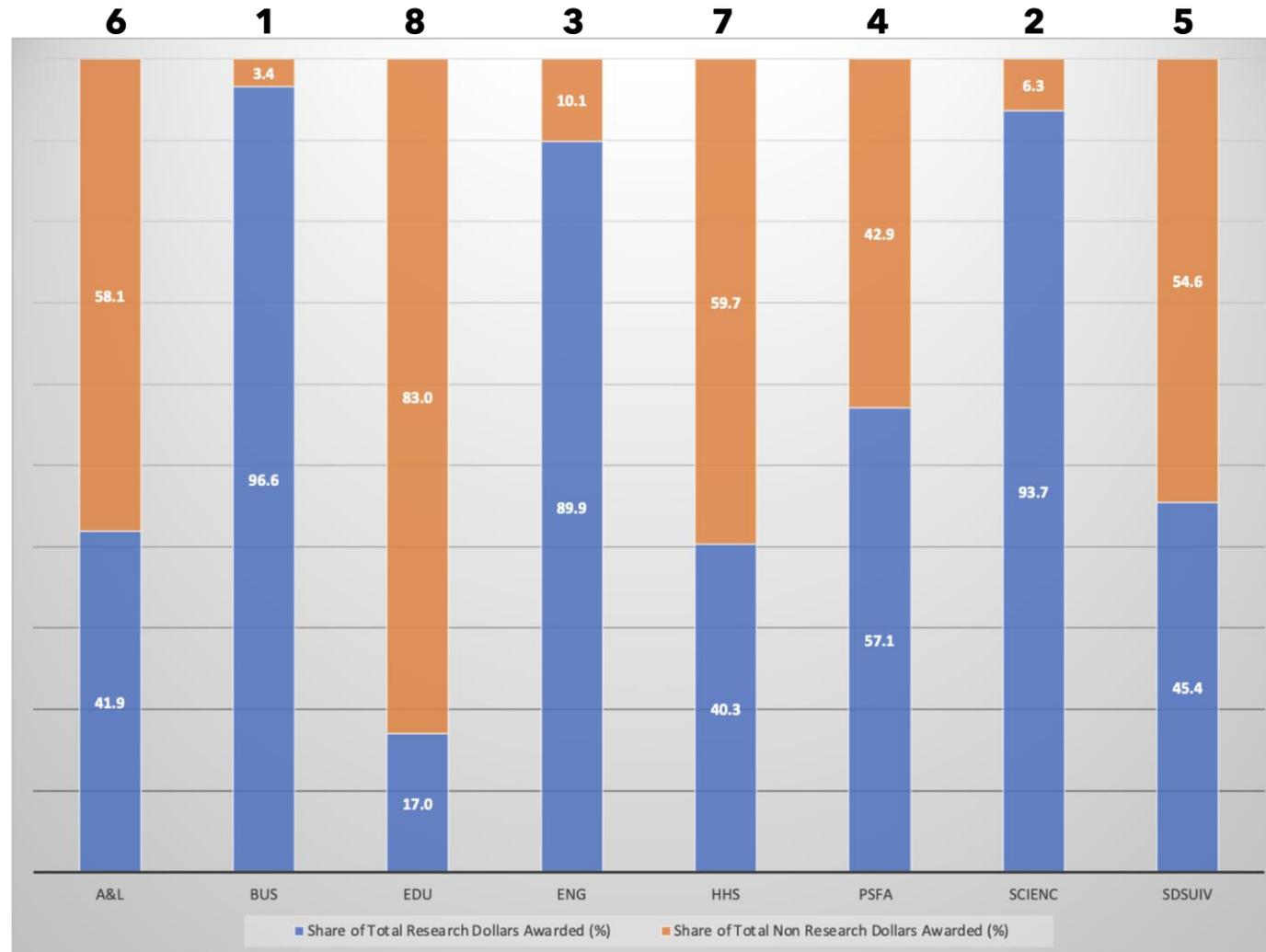


# RESEARCH VS NON-RESEARCH DOLLARS



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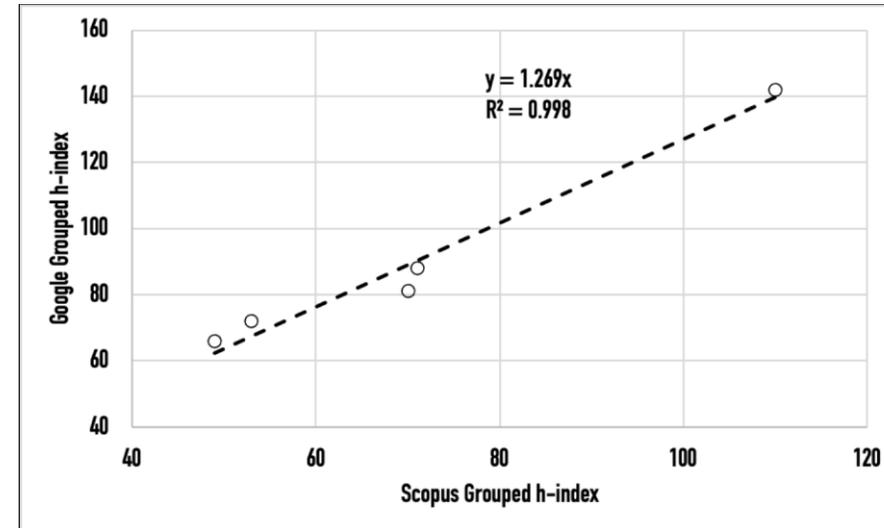
College of Engineering



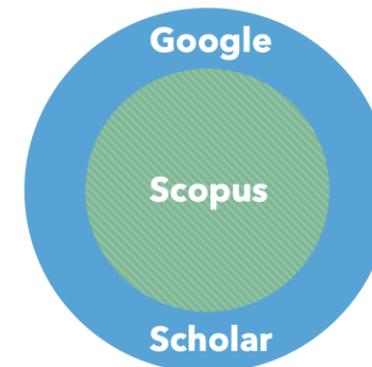
# COE FACULTY SCHOLARLY ACTIVITY



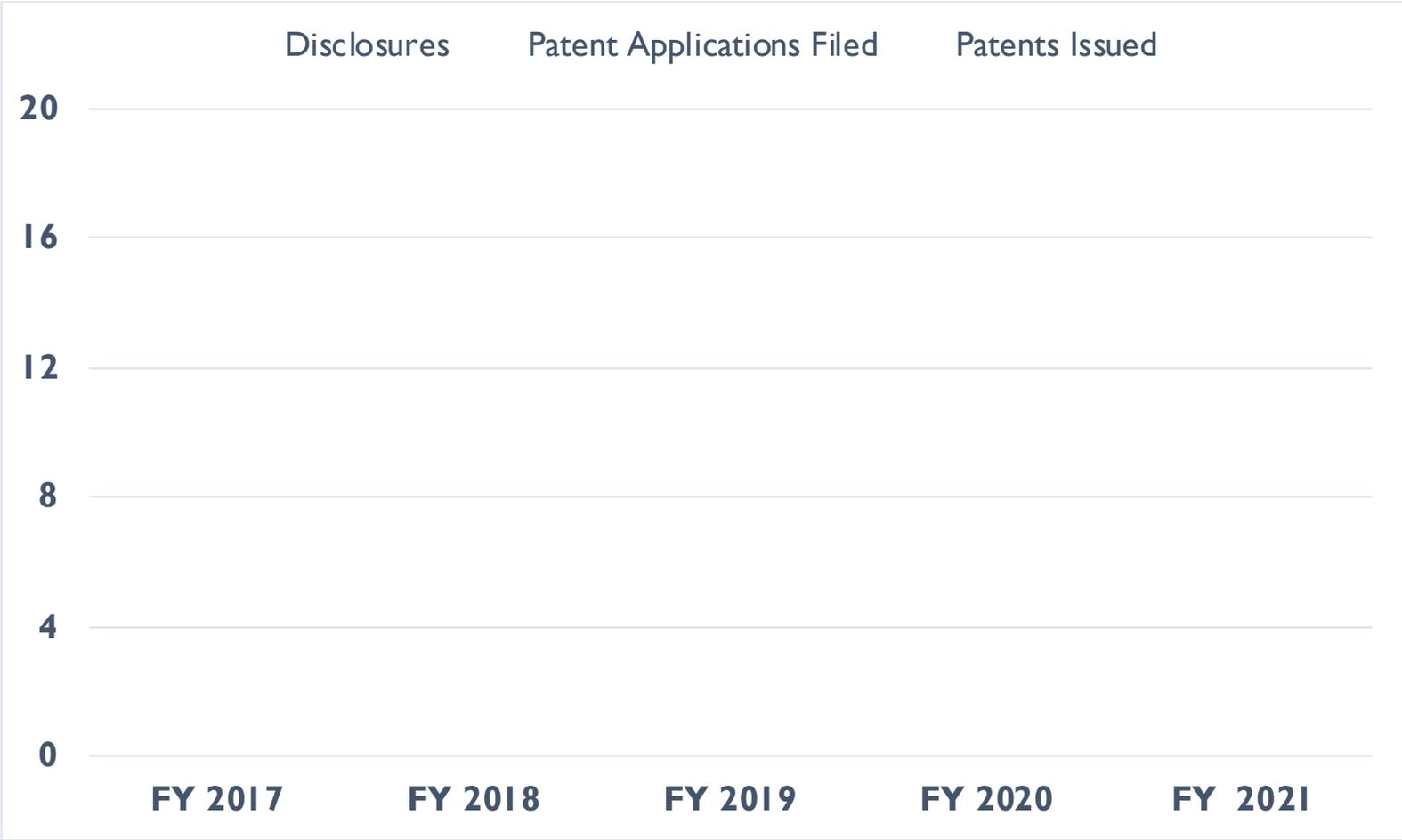
	Authors/ Faculty	Scopus Grouped h- index	Google Group h- index
AE	11	53	72
CCEE	17	49	66
ECE	21	71	88
ME	22	70	81
COE	71	110	142



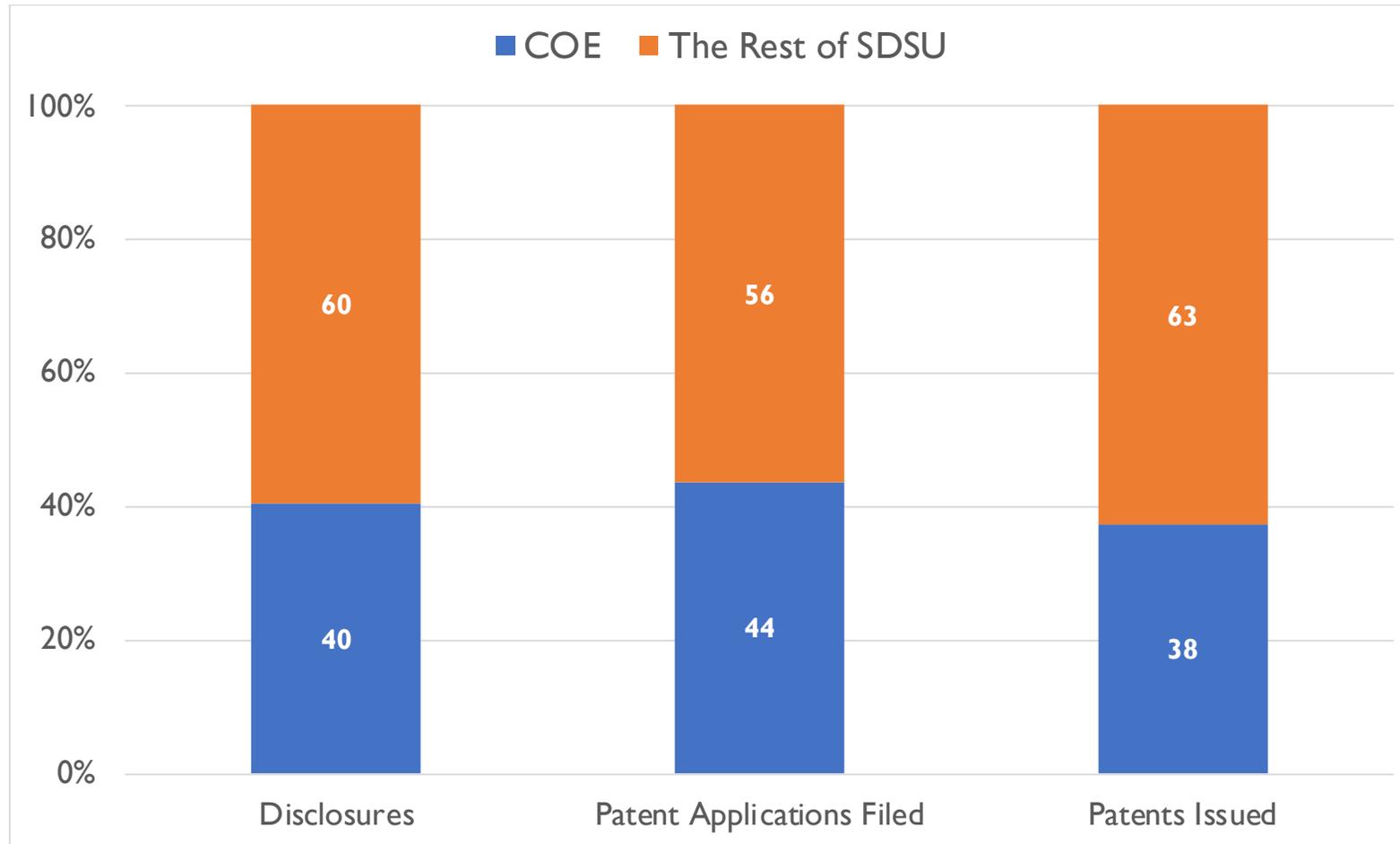
	Determined by Scopus
	Determined Manually



# TTO DATA FOR COLLEGE OF ENGINEERING



# TTO DATA FOR COLLEGE OF ENGINEERING FY 2017-2021



# JDP - MOU

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- The same degree and GPA requirements
- UCSD fee of \$5,500/student was eliminated and replaced with annual lump sum amount
- Starts at \$113,740 and increase to \$144,760 per year in ten years; this is a significant saving for the SDSU COE
- The fund will be used to hire a staff dedicated to JDP in the Deans Office at JSOE

# JDP - FALL 2021 ADMISSION CYCLE

<b>Programs</b>	<b># Applications</b>	<b># Admits</b>	<b># Intents to Enroll</b>
<b>BIOE</b>	7	0	0
<b>ECE</b>	34	7	6
<b>MAE</b>	51	13	13
<b>STR</b>	5	1	1
<b>TOTAL</b>	<b>97</b>	<b>21</b>	<b>20</b>
<b>Yield (%)</b>	<b>N/A</b>	<b>22</b>	<b>95</b>

# JDP – TUITION FEES

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- Basic tuition waivers – 60 ( $60 * \$4,164 \sim \$250K$ )
- Non-resident tuition fee waivers – 30 ( $30 * \$4,752 \sim \$143K$ )
- The waivers are equivalent to \$393k per year
- Non-resident students pay both basic and non-resident tuition fees

# JDP – FALL 2021 ENROLLMENT

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- 45 continuing students
- 2 deferrals from last year
- 20 new admits
- Expected Total Enrollment = 67 (70 was used in May for planning purpose)
- Expected non-resident enrollment = 40

# JDP – TUITION FEE CONTRIBUTION



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## Basic Tuition Fee

- Expected Enrollment = 70
- **Waivers = 60**
- **Exceeds waivers by = 10**
- All faculty with JDP student(s) will contribute towards the tuition fee for the 10 ten student - **\$378.55 per student**

## Non-resident Tuition Fee

- Expected Enrollment = 40
- **Waivers = 30**
- **Exceeds waivers by = 10**
- All faculty with non-resident JDP student(s) will contribute towards the tuition fee for the 10 ten student - **\$1,566.55 per non-resident student**

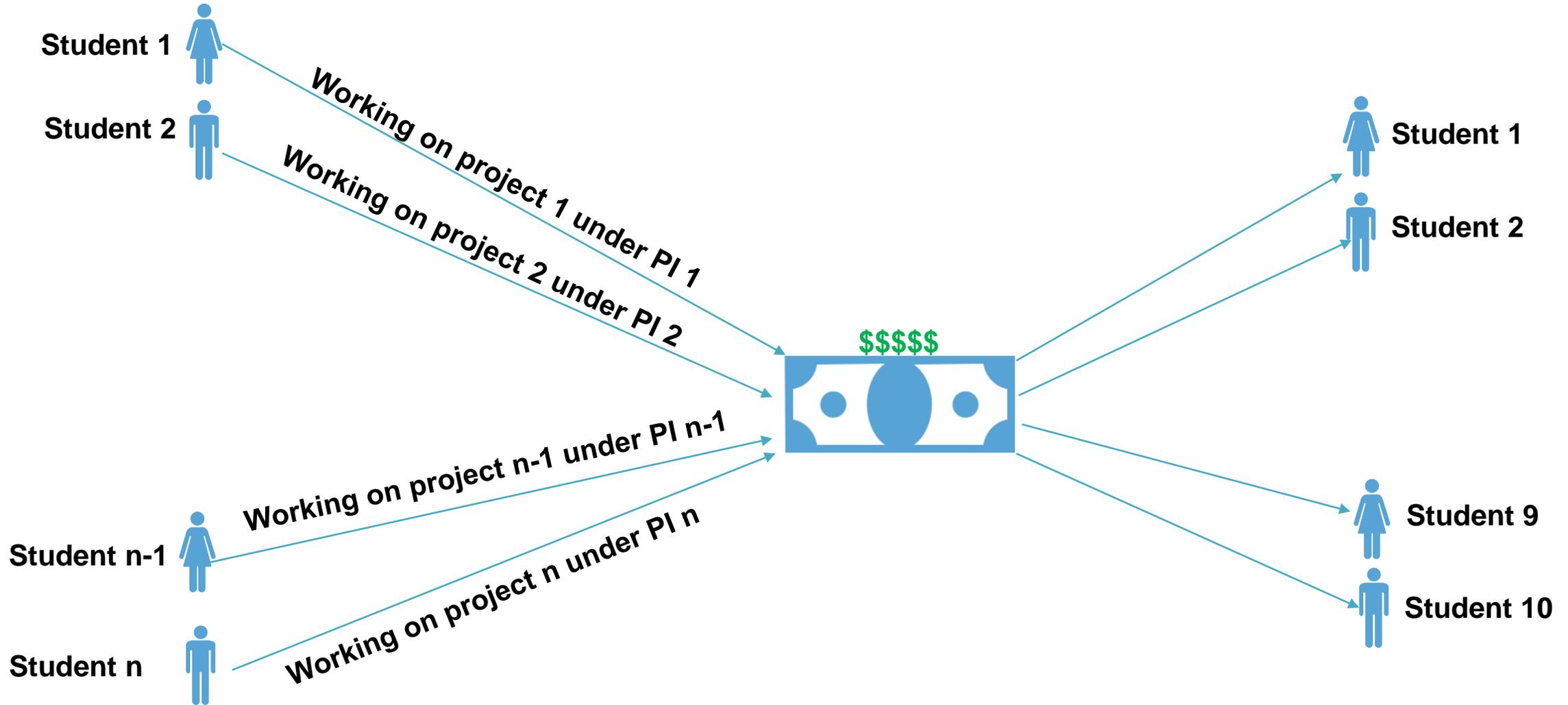
# SOURCES OF FUNDS

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1. State (startup, department/college general fund)
  - Account created
2. Funds at SDSURF (SRFs, C accounts)
  - Accounted created
3. 5-ledger accounts at SDSURF (projects/grants)
  - Facing challenges

# THE CHALLENGE WITH GRANTS/PROJECTS



# POSSIBLE LONG-TERM SOLUTIONS

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- Engineering JDP excellence fee, **no F&A will apply**
- Faculty buyout, **F&A will be applied**
- Publication fee, **F&A will be applied**

# 2021 / 22 JDP TUITION FEE CONTRIBUTION

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UNIVERSITY

College of Engineering

- 39 faculty members serve as an advisor for one or more students
- Out 39, 37 paid their contribution (95%)
- Four faculty members contributed more than their share and received credit for upcoming years
- Two faculty members didn't contribute, and their students were charged full tuition fees by SDSU SAS

# 2021 / 22 JDP TUITION FEE CONTRIBUTION



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College of Engineering

- Fund sources used
  - STATE = \$35,168.85
  - GRANTS = \$32,676.00 (Seven faculty members paid directly to SDSU SAS )
  - RSF and C accounts = \$8,158.95
  - **TOTAL = \$76,003.80**
- **Credit**
  - **\$10,039.60** given to faculty members who paid extra
  - The credit will be used towards future contribution

# PROJECTED ENROLLMENT FOR MS PROGRAMS



Master's Programs	# Intents to Enroll	Fall 2021 - Project Enrollment (~ 90% yield)	Fall 2020 Enrollment	Project Change (%)
AE	17	15	13	15
BIOE	10	9	7	29
CIVE	22	20	12	67
EE	40	36	31	16
ENVE	10	9	0	-
ME	27	24	18	33
MENG	5	5	1	400
<b>TOTAL</b>	<b>131</b>	<b>118</b>	<b>82</b>	<b>44</b>



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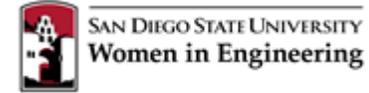
College of Engineering

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# COMMUNITY & COMMUNICATION

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# Femineer Program & Women in Engineering



- **Affiliate University Partner Monthly Meetings**

- Zoom meetings with Cal Poly Pomona partners
- Effort to collaborate on more joint efforts

- **Connecting with Femineer® Teachers**

- Teacher Training held Virtually this summer was a success and will give us more access moving forward



- **Connecting with Femineer® Students**

- Summer Camps
  - 1 Middle School & 2 High School camps hosted
  - Camps were successfully held virtually
- Social Media (@Femineer\_SD)
  - Twitter & Instagram



- **Transition from Virtual to In-Person**

- Fall Teacher Training to be held at SDSU (Oct 2021)
  - Creative Robotics
  - Wearable Technology
  - Pi Robotics



- **WE webpage**

- [engineering.sdsu.edu/about/we\\_program](http://engineering.sdsu.edu/about/we_program)
- WE faculty profiles, WE events (i.e. WE Chat, WE Do Coffee Hour, WE Industry Job Shadow/Networking/Research Opportunities), Alumnae Connect, WE in the News)
- New updates underway

- **WE Chat**

- WE Faculty to lead 3 WE Chats Fall 2021 semester



- **Coffee Hours**

- All 2020-2021 held through Zoom
- Fall 2021 to be in-person
- Connects WE undergraduate/graduates with WE faculty



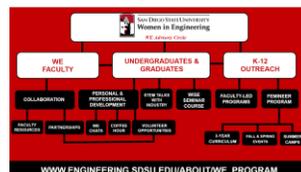
- **STEM Talk Day with Industry**

- In-person & Zoom options for fall
- Connects Femineer/WE students with industry partners and recruiters



- **WE Believe - Summer Research Program**

- Spearheaded by WE Faculty Advisor, Dr. Karen May-Newman
- Supported by CoE Faculty
- ~40 incoming freshman/transfer students



# WE-BELIEVE Program

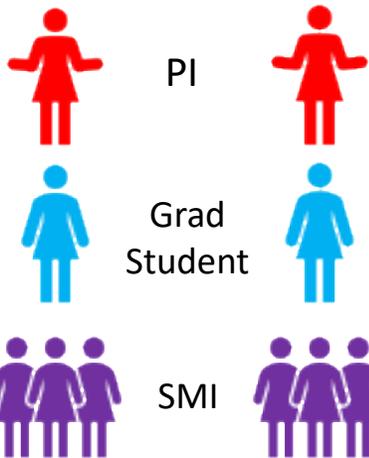


SAN DIEGO STATE UNIVERSITY

College of Engineering

## Four-week paid Summer Research Internship for 16 SDSU engineering students

Mentoring



Technical Experience



Engaging Projects



Communication skills

Support Network





# Troops to Engineers Program



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- **Program Mission:** Support the career development of student veterans majoring in engineering and computer science.
- **Program Goal:** To place 100% of program participants into a paid internship while enrolled at SDSU and into a full-time position upon graduation.
- **Program Coordinator:** Currently recruiting for this open position.
- **Program Participants:** 164 veteran students majoring in engineering or computer science (Fall 2021). All are eligible for participation in the Troops to Engineers program.
- **Career Development Activities:** Mock Interviews, Resume Writing, Salary Negotiation, Business Etiquette, Industry Panels and Tours
- **Troops to Engineers Major Sponsors:**



Booz | Allen | Hamilton





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# COE IMPORTANT DATES TO REMEMBER

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# FALL 2021 - CoE IMPORTANT DATES TO REMEMBER



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- **September 10, 2021 (Fri)** – 8:00am-12:00pm – **Provost Visit to Engineering** – In person
- **October 14, 2021 (Thu)** – 11:00am-12:00pm – **CoE Faculty Mtg** – Format to be determined
- **October 14, 2021 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Format to be determined
- **September 29, 2021 (Fri)** – 10:30am-12:00pm – **Provost Visit to Engineering** – In person
- **November 5, 2021 (Fri)** – 8:30am-1:00pm – **Engineering Dean's Advisory Board Mtg** – Format to be determined
- **December 7, 2021 (Tue)** – 11:00am-12:00pm – **CoE Faculty Mtg** – Format to be determined
- **December 9, 2021 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Format to be determined
- **December 2021** – **Engineering Commencement** – Details to be confirmed at a later date



SAN DIEGO STATE  
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College of Engineering

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**APPROVAL OF 4/13/2021  
COE FACULTY MEETING MINUTES**

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**SAN DIEGO STATE UNIVERSITY**  
College of Engineering  
**COLLEGE OF ENGINEERING FACULTY MEETING**  
Minutes of Tuesday, April 13, 2021  
11:00am-12:00pm  
Meeting held via Zoom

**Faculty Members Present:** J. Abraham, R. Akhavian, B. Aksanli, A. Alimohammad, T. Alves, A. Bani Younes, A. Beyene, J. Camacho, M. Capriotti, J. Chen, L. Demasi, C. Dykstra, A. Engin, T. Garcia, S. Ghanipour Machiani, A. Jahangiri, J. Kang, P. Katira, J. Katz, A. Kinoshita, X. Liu, P. Lu, S. Manshadi, K. May-Newman, C. Mi, M. Miletic, F. Miller, K. Moon, D. Nguyen, E. Olevsky, C. Paolini, S. Park, A. Plotkin, R. Sabzehgar, S. Seshagiri, S. Sharma, J. Supernak, H. Tavakol, Y. Teh, H. Töreyn, E. Torresani, J. Valdes, S. Venkataraman, M. Verbyla, K. Wood, J. Xie, W. Xu, Y. Yang

**Members Absent:** Z. Ahmadabadi, A. Ashrafi, Z. Bayasi, A. Bhalla, S. Bhattacharjee, G. Jacobs, S. Kassegne, S. Kumar, T. Mitropoulos, K. Morsi, S. Nagaraj, P. Naseradimousavi, H. Nourollahi, Y. Ozturk, P. Popov, M. Sarkar

**Members Excused:** R. Betancourt (FERP), R. Dowell, T. Garoma (Meeting), K. Huang, R. Kline (FERP), N. Mladenov (Sabbatical), B. Narang (FERP), V. Ponce (FERP), R. Tummala (FERP), G. Youssef

**Staff Members Present:** Kate Carinder, Marcie Morihiro, William Nguyen

Dean Olevsky called the meeting to order at 11:04 am.

### 1. Announcements & Updates

A) Engineering Admin Updates: Dr. Temesgen Garoma, Dr. Yusuf Ozturk, appointed as Associate Deans effective 7/1/2021.

B) Kate Carinder, Sr. Director of Development for Engineering, provided the following URAD Engineering updates:

- CoE has fundraised \$6.03M, which is over the goal of \$6M for FY20/21.
- College endowment reached \$22M and 44 endowed funds as of 12/31/2020.
- Accumulated cash giving \$500,000 provided by one donor for Rocket Project.
- Updates on the list of new endowments since 2018.
- Updates on the list of new AGC Chair endowments since 2018.
- Updates on the spending of the total endowments, which are explained on the Engineering website: <https://www.engineering.sdsu.edu/giving/endowedfunds.aspx>
- Updates on the Engineering alumni recognitions.

### 2. State of the College

Dean Olevsky covered the following topics:

#### (A) Update on faculty searches for 2020-21

- 4 searches were completed successfully; (1) CCEE position is unchilled; and (1) AE new search is opened.
- It is expected there will be 76 T/TT faculty in the CoE by Fall 2021.

#### (B) Update on Renovation of Building A

- About 4,700 sqft of usable space.
- Space utilization: (8) new research labs, (7) new offices/conference rooms, and student club space.
- Construction photos of current renovation status.
- Final inspections/occupancy will be delayed by one month, until June of this year.

#### (C) Research & Graduate Program Update (data prepared by Interim Assoc. Dean Garoma)

- Brief update on the College research activities, including proposals and awards in the CoE from 7/2020 to 4/2021. Highlights included: accumulated research dollars so far ~\$5.7M, which is ~100.9% of FY 2020 (within the same period of time).
- (3) NSF Career Awards in the CoE for Spring 2021.
- Patent applications update: CoE contributes 40% of all patents for the whole University.
- Recognition of faculty scholarly activity and updates: data information is important for documentation and other purposes. A brief update on how to collect accurate data: e.g., Google forms, any suggestions and feedback are welcomed.
- Brief update on the JDP Fall 2021 applications: so far, 16 were denied admissions out of 27 recommendations.
  - 102 applications, after six rounds of review by the JDP Steering Committee, 69 were reviewed, 34 were recommended for admissions and sent to UCSD, 25 were not recommended for admissions.
  - UCSD Graduate Council recommended continuation of the JDP program.
  - Admin Wrap-up review meeting is scheduled for 5/3.
- Update on the MS Program: increased applicants in 2021 as compared with last year.

#### (D) Undergraduate Program Update (data prepared by Interim Assoc. Dean Ozturk)

- Update on ABET timeline, ABET virtual visit on 10/16-18, 2021.
- EAB software for proactive advising: <https://sdsu.campus.eab.com>
  - All faculty now have access to EAB system
- Fall 2021 will be predominantly in-person
- Summer 2021 - 44 courses are currently offered
- Thursday, 4/15/21 is Rest and Recovery day
- Fall registration May 25
- Student success and engagement updates, will switch to in-person fully in the Fall

#### (E) Community & Communication Update

- Virtual activity updates for the following organizations: Femineer & Women in Engineering, MESA, and Troops to Engineers.
- Wednesday, 5/5/21 Virtual Engineering Design Day.

#### (F) Update on DEI committees

- 2021 Spring activity updates: Departmental level committee meetings for establishing Department DEI plans. Focus on the increasing URM graduate students (goal #2). A tentative budget of \$85K to implement DEI strategies for the College was submitted to University DDI council.

#### (G) Constitution and Bylaws updates for the following three main documents:

- Constitution and Bylaws (excluding appendices)
- Appendix A (AT)
- Appendix B (RTP)

#### (H) CoE important dates:

##### SPRING 2021 & FALL 2021

##### CoE IMPORTANT DATES TO REMEMBER

###### Spring 2021

- April 14, 2021 (Wed) – 1:30pm-2:30pm – CoE Staff Mtg – via Zoom
- April 17, 2021 (Sat) – 10:00am-12:00pm – Explore SDSU Day 2 (Out of Classroom Focus) – via Zoom
- May 5, 2021 (Wed) – 9:00am-12:00pm – Engineering Dean's Advisory Board Mtg – via Zoom
- May 5, 2021 (Wed) – 1:00pm-4:30pm – Spring 2021 Engineering Design Day – via Zoom
- May 26, 2021 (Wed) – 1:00pm – Engineering Commencement – Virtual and In-person at Petco Park

###### Fall 2021

- August 20, 2021 (Fri) – 1:00pm-4:00pm – CoE Fall 2021 Retreat – Format to be determined

Approval of 2/16/2021 CoE Faculty Meeting minutes: Dr. Sridhar Seshagiri – 1<sup>st</sup> motion and Dr. Janusz Supernak – 2<sup>nd</sup> motion; and the minutes were approved at 12:03am.

### 3. Q&A Session

Q1. How often does the Google form need to be filled out?

A1. Yearly update.

Dr. Chris Mi motioned to adjourn the meeting and Sridhar Seshagiri seconded the motion, and Dean Olevsky adjourned the meeting at 12:04pm.

Minutes submitted by Dr. Wenwu Xu, May 6, 2021.



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ADMISSIONS AND ENROLLMENT  
TRENDS

*Stefan Hyman, Associate Vice President for  
Enrollment Management  
College of Engineering Retreat  
August 20, 2021*



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**INTERMISSION**



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# UPDATE ON ENGINEERING DEVELOPMENT ACTIVITIES

KATE CARINDER  
SR. DIRECTOR OF DEVELOPMENT - ENGINEERING  
UNIVERSITY RELATIONS & DEVELOPMENT

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# Development Update



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- 2020-2021 was a record year for Engineering - \$6.5M raised & 17 new endowments!
- Priorities - Faculty Support, Graduate Student Support, AGC Chair, DEI, Scholarship
- Highlighted Gifts for 2021: Why Are These Important Gifts?



Paul Stuverud



Peggy and Eric Johnson



Dr. Supernak



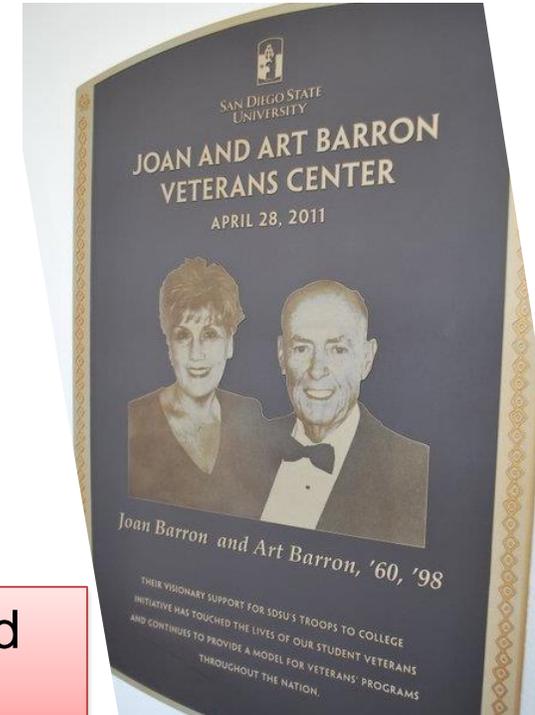
DN Tanks & Lytx



# **Military and Veterans Program & the Department of Engineering Collaboration**

# Introduction to the MVP

- The SDSU Military and Veteran Program is CSU's flagship program supporting
  - Veterans
  - Active-duty military (including Reservists)
  - Military family members (spouses and children)



We serve over 4,700 military-affiliated students each year

13% of SDSU students are student veterans, service members, and/or dependents

SDSU has the most military-connected students in the California public university system (by nearly double!)



# Strong Connections with Engineering



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- Troops to Engineers Program
- Relevance of STEM Education in career development
- Proposal Collaboration
  - Department of Defense
    - Department of the Army
    - Department of the Navy (includes Marine Corps)
    - Department of the Air Force (includes Space Force)
  - National Science Foundation
  - National Endowment for Humanities
  - Department of Education
  - U.S. Department of Agriculture



# Military-Connected Engineering Students



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- 552 military-connected students
  - 20+ Graduate Students
  - 30% Under-Represented Minority
  - 20% Pell Grant Recipients
  - 26% “Adult learners” (ages 25+)
  - 17% female

## Top Majors

1. Mechanical Engineering (150)
2. Electrical Engineering (104)
3. Aerospace Engineering (94)
4. Computer Engineering (66)
5. Civil Engineering (65)

# How can MVP help you?

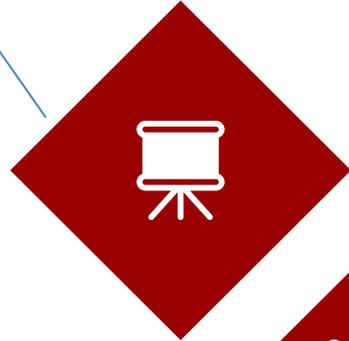


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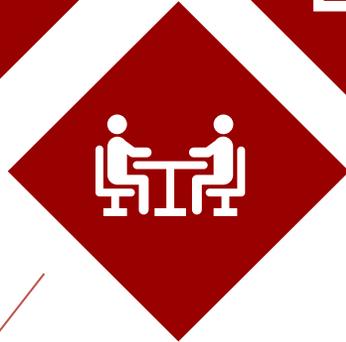
## Higher Education Outreach

Work with local military bases and community colleges to improve higher education access



## Students

Involve the diverse military student body as research assistants, program participants, studied population



## Community Engagement

Facilitate interaction with the military, defense industry, and the surrounding community

## Extramural Funding

Provide grant writing support across proposal development

## Cutting-Edge Research

Establish and expand research opportunities that explicitly engage/include military students

# Grant Support

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## What's the catch?

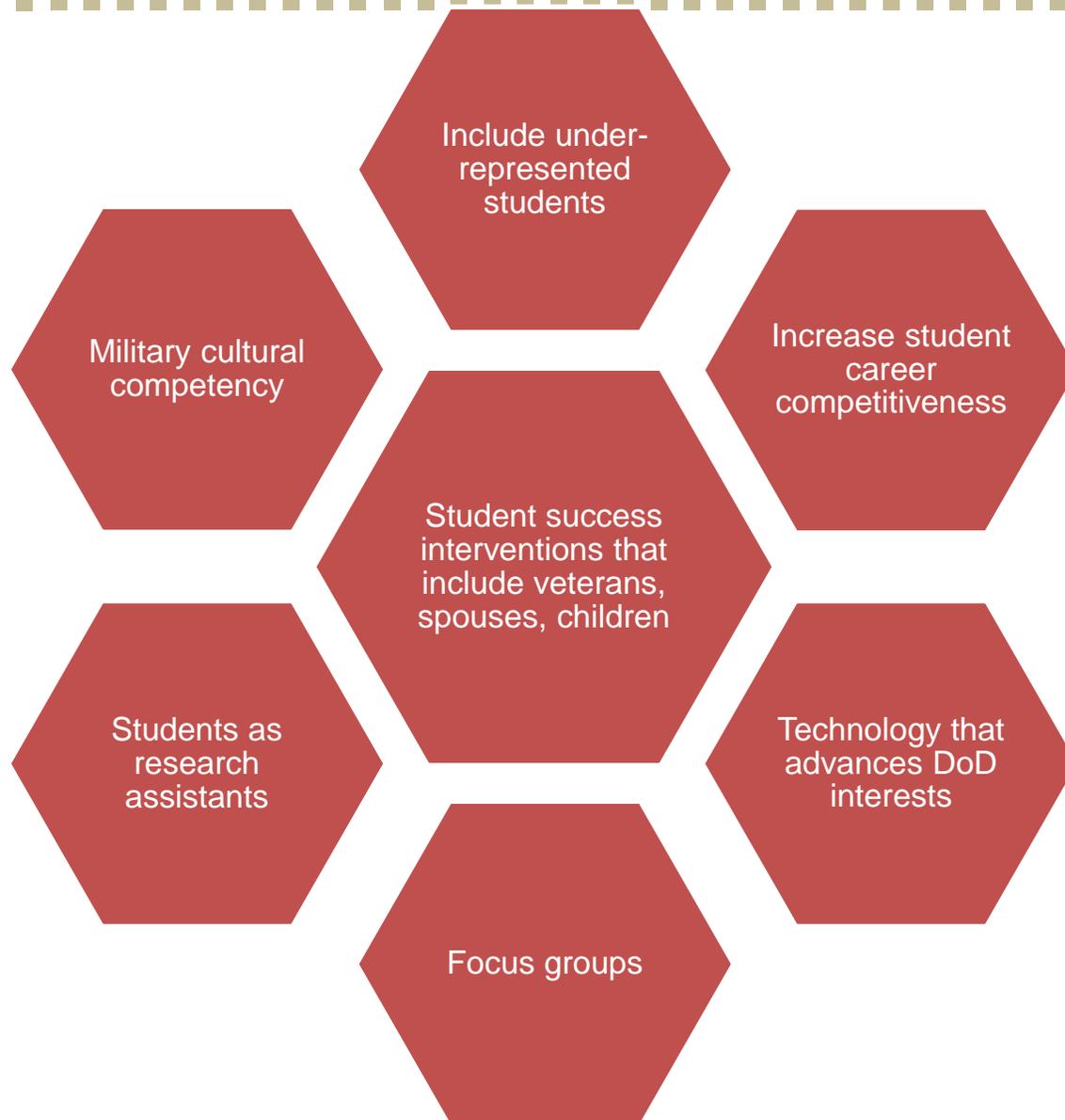
The work must involve a **military component**, such as military student inclusion, advancements that benefit the U.S. military, research about the military and/or its service members

# How Can I Involve Military Students?



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Top DoD Research Interests

AI

5G

Robotics

Directed Energy

VR

Microelectronics

# Contact Us! SDSU Military and Veterans Program



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Todd Kennedy, Director

[tkennedy@sdsu.edu](mailto:tkennedy@sdsu.edu)

Elisa East, Program Administrator

[ceast01@sdsu.edu](mailto:ceast01@sdsu.edu)

Liz Reep, Grant Writer

[ereep@sdsu.edu](mailto:ereep@sdsu.edu)



Student Services  
West – 1661

[sdsu.edu/veterans](http://sdsu.edu/veterans)



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**ELECTIONS & REVIEW OF  
2021 – 2022  
COLLEGE OF ENGINEERING  
COMMITTEES**

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# COE - SECRETARY

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College of Engineering

- **College of Engineering Secretary:** (is elected at the first meeting of the academic year. The tenure of the Secretary is for (2) years and the term begins upon election)

— W. Xu (ME) (term ends 8/21)

# UNIVERSITY PROMOTIONS AND TENURE REVIEW PANEL (UPTRP)



SAN DIEGO STATE  
UNIVERSITY

College of Engineering

- **College of Engineering Representative to UPTRP:** (is a tenured full professor elected by the probationary and tenured members of the faculty for a two-year term. At the May faculty meeting of each odd year, the College's current representative shall conduct, by democratic process and secret ballot, the election of the faculty member to represent the College for the next two academic years).
  - **UPTRP Representative: K. Morsi (ME) elected to UPTRP Committee (term ends 8/21)**

# CoE - PARLIAMENTARIAN



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- **CONSTITUTION AND BYLAWS Committee:** (members elected by respective Departments [AE & CCEE terms expire in January of even years; ECE & ME terms expire in January of odd years] and serve 2-year terms; **Chair is the College Parliamentarian and is elected by the faculty at-large**)
  - **J. Valdes (CCEE) – Parliamentarian & Chair (term ends 8/21)**
  - **A. Plotkin (AE) (term ends 1/22)**
  - **T. Mitropoulos (CCEE) (term ends 1/22)**
  - **E. Engin (ECE) (term ends 1/21)**
  - **K. Morsi (ME) (term ends 1/21)**

# CoE COMMITTEES 2020 - 2021



- **PERSONNEL TENURE AND PROMOTION**: (members elected by respective Departments in September [AE&ME in odd years; CCEE&ECE in even years] and serve 2 year terms; **Chair selected from the membership of the committee which served the previous year**)
  - S. Sharma (CHAIR - ECE) (term ends 8/22)
  - **J. Katz (AE)** (**term ends 8/21**)
  - J. Valdes (CCEE) (term ends 8/22)
  - **A. Beyene (ME)** (**term ends 8/21**)
- **SCHOLARSHIP AND AWARDS**: (members elected by respective Departments and serve 2 year terms; AE&ECE members elected in odd years, CCEE&ME elected in even years; **Chair elected by the committee at the beginning of each year**)
  - **S. Seshagiri (CHAIR - ECE)** (**term ends 8/21**)
  - **J. Chen (AE)** (**term ends 8/21**)
  - C. Dykstra (CCEE) (term ends 8/22)
  - E. Torresani (ME) (term ends 8/22)

# CoE COMMITTEES 2020 – 2021 (CONT...)



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- **ACADEMIC POLICY AND PLANNING:** (members elected by respective Departments and serve 3-year terms; members are eligible for re-election; **Chair elected by the committee at the beginning of each year**)

- S. Kumar (CHAIR - ECE) (term ends 8/21)
- G. Jacobs (AE) (term ends 8/21)
- H. Tavakol (CCEE) (term ends 8/22)
- A. Beyene (ME) (term ends 8/21)

E. Olevsky (Dean) – ex-officio

- **CURRICULUM:** (members elected by respective Departments and serve 2-year terms; **Chair elected by the committee at the beginning of each year**)

- G. Youssef (CHAIR - ME) (term ends 8/21)
- J. Katz (AE) (term ends 8/21)
- T. Alves (CCEE) (term ends 8/22)
- E. Engin (ECE) (term ends 8/22)

# CoE COMMITTEES 2020 – 2021 (CONT...)



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- **INTRAMURAL GRANTS COMMITTEE – (formerly RSCA):** (members elected by respective Departments and serve 1-year term; **Chair elected by the Committee**; a graduate student member selected by Committee)

- F. Miller (CHAIR – ME) (term ends 8/21)
- S. Venkataraman (AE) (term ends 8/21)
- M. Verbyla (CCEE) (term ends 8/21)
- S. Nagaraj (ECE) (term ends 8/21)

# COE – GRADUATE STUDIES & RESEARCH PROGRAMS COMMITTEE



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- **Members made up of Department Graduate Advisors, JDP Director, and Associate Dean (Chair) called by the Dean and Executive Committee to serve indefinitely as of 9/24/08 Executive Committee Meeting**
  - **T. Garoma (Assoc. Dean) - Chair**
  - **S. Venkataraman (AE)**
  - **R. Dowell (CCEE)**
  - **M. Sarkar (ECE)**
  - **F. Miller (ME)**
  - **S. Kassegne (BioEng)**

# CoE - COMPUTER INFRASTRUCTURE & SOFTWARE COMMITTEE



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- **Members made up of Department Chairs, IT Lead, and Associate Dean. This Committee was recomposed at the 9/24/08 Executive Committee Meeting**
    - W. Nguyen (IT Lead) – Chair
    - G. Jacobs & P. Lu (Chair, AE)
    - A. Jahangiri & J. Supernak (Chair, CCEE)
    - C. Paolini & Chris Mi (Chair, ECE)
    - A. Bhalla & J. Abraham (Chair, ME)
- T. Garoma (Assoc. Dean for Graduate Studies & Research) – ex-officio

# CoE - INTERNATIONAL PROGRAMS COMMITTEE

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- **Members made up of faculty with existing International Study-Abroad Programs, and the Assistant Dean of Engineering for Student Affairs**
  - T. Garcia, Assistant Dean of Engineering for Student Affairs - Chair
  - L. Demasi (AE)
  - J. Supernak (CCEE)
  - M. Sarkar (ECE)
  - K. Moon (ME)

# CoE - STUDENT SUCCESS FEE COMMITTEE



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- **Chaired by the Assistant Dean for Student Affairs, (2) Faculty members, selected by the Department Chairs, will serve each year on a rotating basis. AE & ME members serve in odd years; CCEE & ECE members serve in even years)**
  - T. Garcia (Assistant Dean of Student Affairs) - Chair
  - P. Popov (AE)
  - A. Kinoshita (CCEE)
  - K. Huang (ECE)
  - K. Moon (ME)

# CoE - DIVERSITY, EQUITY & INCLUSION COUNCIL



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## Committee Function:

The Diversity, Equity & Inclusion Council shall work with each CoE Department on the development of their Diversity & Equity Plan.

## Committee Membership:

Chair of the Council shall be a Diversity Liaison elected by the Council at the beginning of each academic year. Members consist of (2) CoE Diversity Liaisons, (1) tenured or tenure/track faculty member from each Department, (1) full-time lecturer, (1) staff member, (1) graduate student, and (1) undergraduate student. The terms of the service committee members who are not students shall be two years, with no limit to the number of consecutive terms served. The terms of service for student committee members may be one or two years. This committee and structure was approved at the 8/7/2019 Executive Committee Meeting.

# CoE - DIVERSITY, EQUITY & INCLUSION COUNCIL (MEMBERS)



SAN DIEGO STATE  
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College of Engineering

## Diversity Liaisons

- M. Sarkar (ECE) - Chair
- T. Garcia (Assistant Dean of Student Affairs)

## Tenure/Tenure-Track Faculty

- G. Jacobs (AE) (term ends 8/21)
- T. Alves (CCEE) (term ends 8/21)
- J. Camacho (ME) (term ends 8/21)

## Full-Time Lecturer

- P. Kaveh (ECE) (term ends 8/21)

## Staff Member

- M. Bunn, Femineer™ & STEM Outreach (term ends 8/21)

## Graduate Student

- Maricruz Carillo (term ends 8/21)

## Undergraduate Student

- Undergraduate student representative will be a CESC designee (term ends 8/21)



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# CLOSING REMARKS

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**THANK YOU!**