



SAN DIEGO STATE
UNIVERSITY

COLLEGE OF ENGINEERING

STAFF MEETING

OCTOBER 14, 2021

AGENDA



SAN DIEGO STATE
UNIVERSITY

College of Engineering

- Call to Order

- Announcements & Updates
 - Engineering Staff Updates
 - Engineering Development Update

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

- Discussion

- Adjournment



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ANNOUNCEMENTS & UPDATES

DEVELOPMENT UPDATE



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○ **Development Goal FY2020-2021**

- Goal - \$4,000,000 – we raised \$6,500,000

○ **College Endowment**

- In 2018 it was \$11.2M in 2021 it's \$23M
- In 2018 we had 29 endowed funds and today we have 46
- Those endowed funds can be found on the website at:
<https://www.engineering.sdsu.edu/giving/endowedfunds.aspx>

- **What can you do as faculty?** Build relationships with industry partners, alumni, donors and friends

○ **Development Priorities**

- Faculty Chairs and Professorships
- Scholarship Support
- Diversity, Equity & Inclusion Initiatives
- AGC Chair in Construction Management
- Mechanical Engineering Support
- Aztec Electric Racing
- Naming the College of Engineering

***Keck Foundation** – You must **show proof** of refusal from NSF or etc. and the proposal has to be **basic foundational science, not application**



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STATE OF THE COLLEGE



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UPDATE ON COLLEGE PERSONNEL

ENGINEERING STAFF UPDATES

Congratulations and Welcome! Effective Fall 21!



Melinda Sevilla
CoE Communications Lead

Marketing Manager at Wildcat Discovery Technologies
*MA in Communication (Meditated Communication & Technology),
University of Illinois at Urbana-Champaign
BA in Communications Studies and Spanish, University of San Diego*



Julie Smitherman
Assistant to the CoE Dean

SDSU Mechanical Engineering Coordinator
BA in Art History, Southern Methodist University

FACULTY SEARCHES FOR 2021 - 22



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Searches Funded by College

Department	Position Area	Level
CCEE	Department Chair	Full
CCEE	Environmental Engineering	Assistant
ECE	Endowed Chair in Digital Signal Processing	Full
ECE	Renewable Energy	Assistant
ME	Advanced Manufacturing	Assistant
ME	Energy Storage	Assistant

Searches Funded Centrally

TENURED/TENURE-TRACK FACULTY



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	AE	CCEE	ECE	ME	CoE
Professors	7	4	9	9	29
Associate Professors	1	5	4	3	13
Assistant Professors	4	10	7	10	31
Fall 2019 T/T Faculty	12	19	20	22	73*
New Fall 2021 Positions	0	2	2	2	6
Total T/T Faculty*	12	21	22	24	79*

* Includes participants in Faculty Early Retirement Program (FERP)

GENERAL DATA: SDSU CoE



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<input type="checkbox"/> Undergraduate Enrollment, Fall 2021:	3289 (20.3% W)
<input type="checkbox"/> Graduate Enrollment, Fall 2021:	290 (26.6% W)
<input type="checkbox"/> Total Degrees Granted, 2020-21:	800 (23.0% W)
<input type="checkbox"/> Undergraduate Degree Programs:	8
<input type="checkbox"/> Graduate Degree Programs:	13

2022 US NEWS and World Report: SDSU College of Engineering is 6 positions up!



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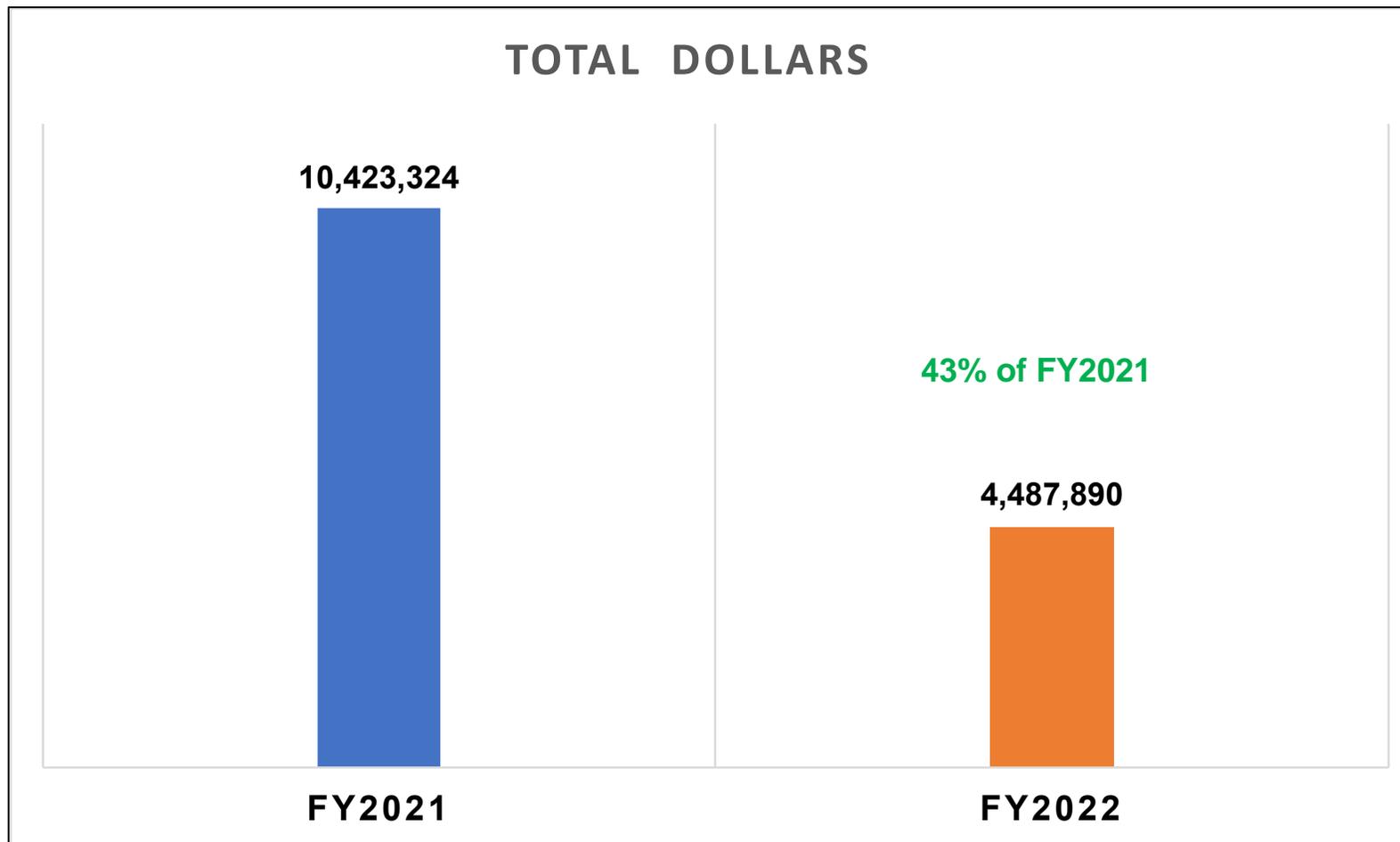
RESEARCH & GRADUATE PROGRAM UPDATE

RESEARCH DATA – AWARDS (07/01/21 – 09/30/2021)



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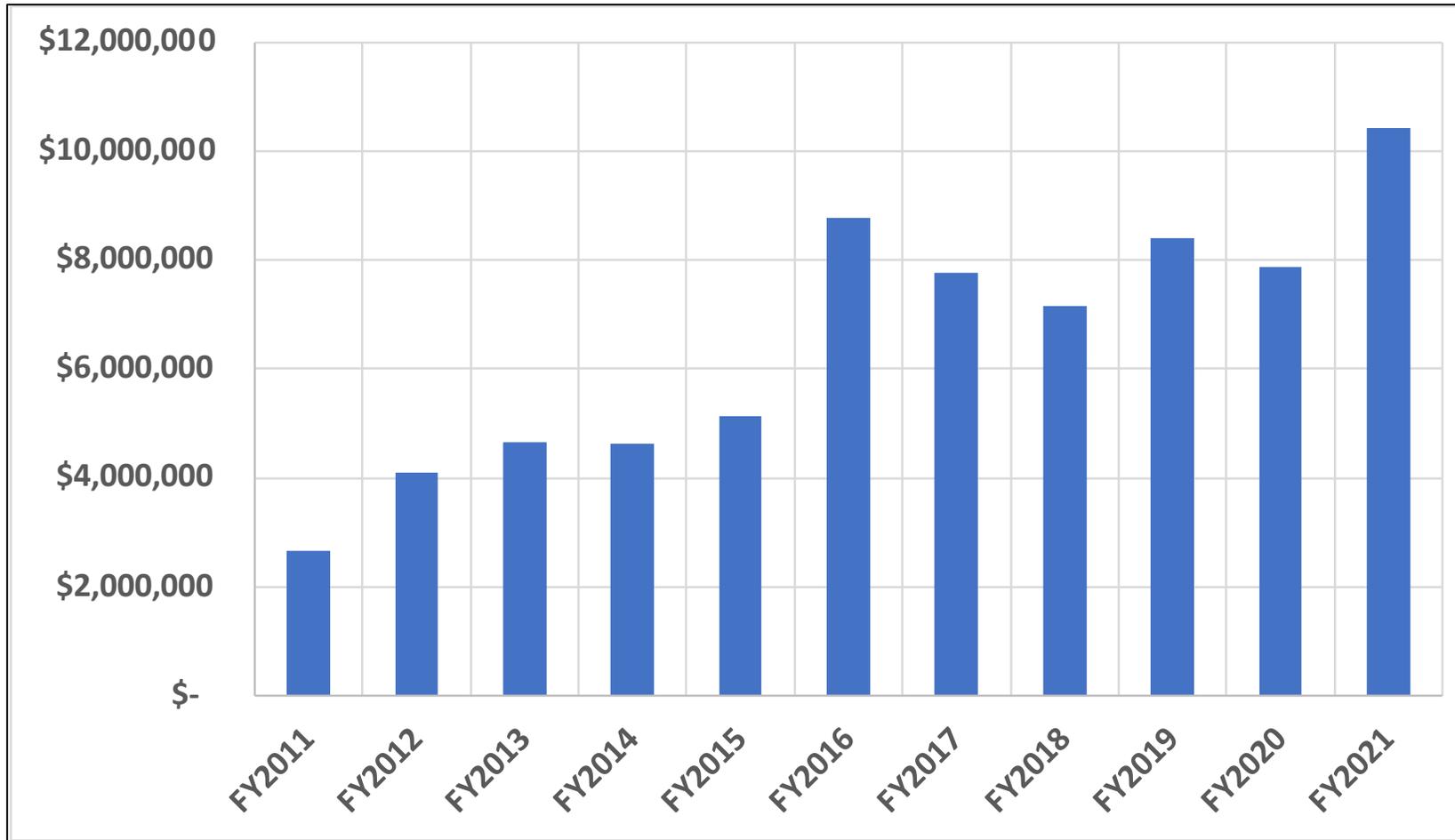


HISTORICAL DATA - TOTAL DOLLARS



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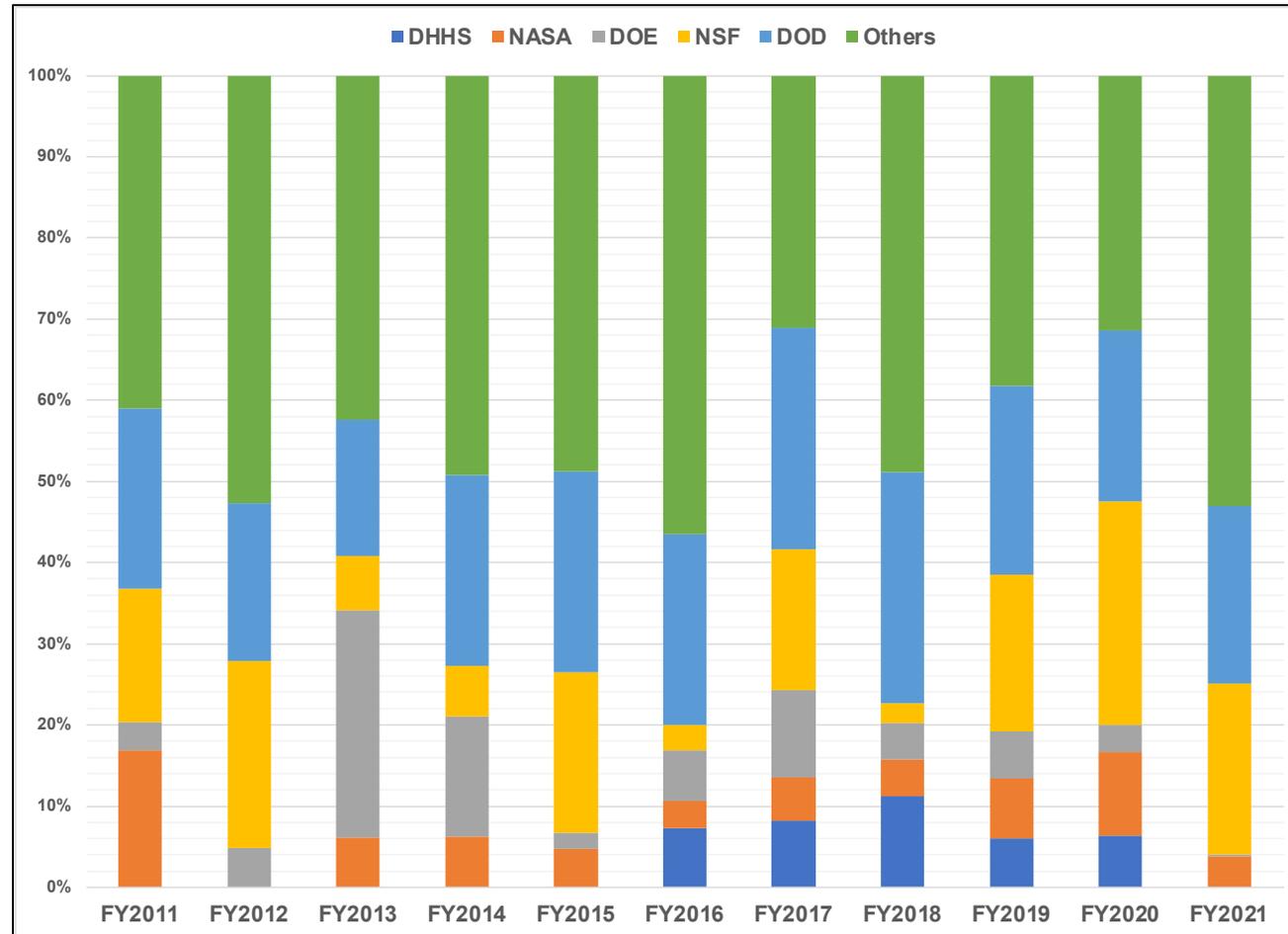


HISTORICAL DATA – BY FUNDING AGENCIES



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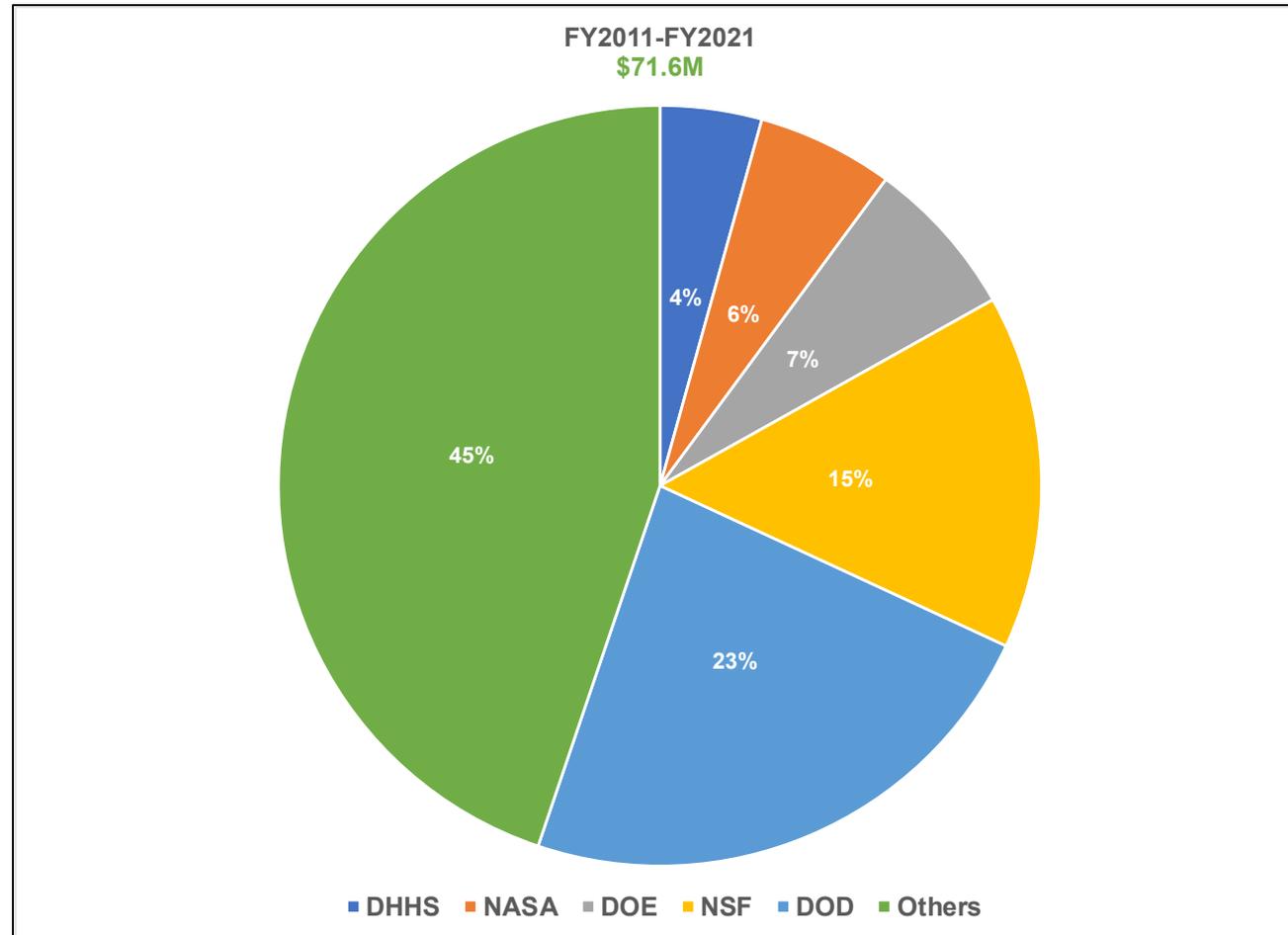


HISTORICAL DATA – BY FUNDING AGENCIES



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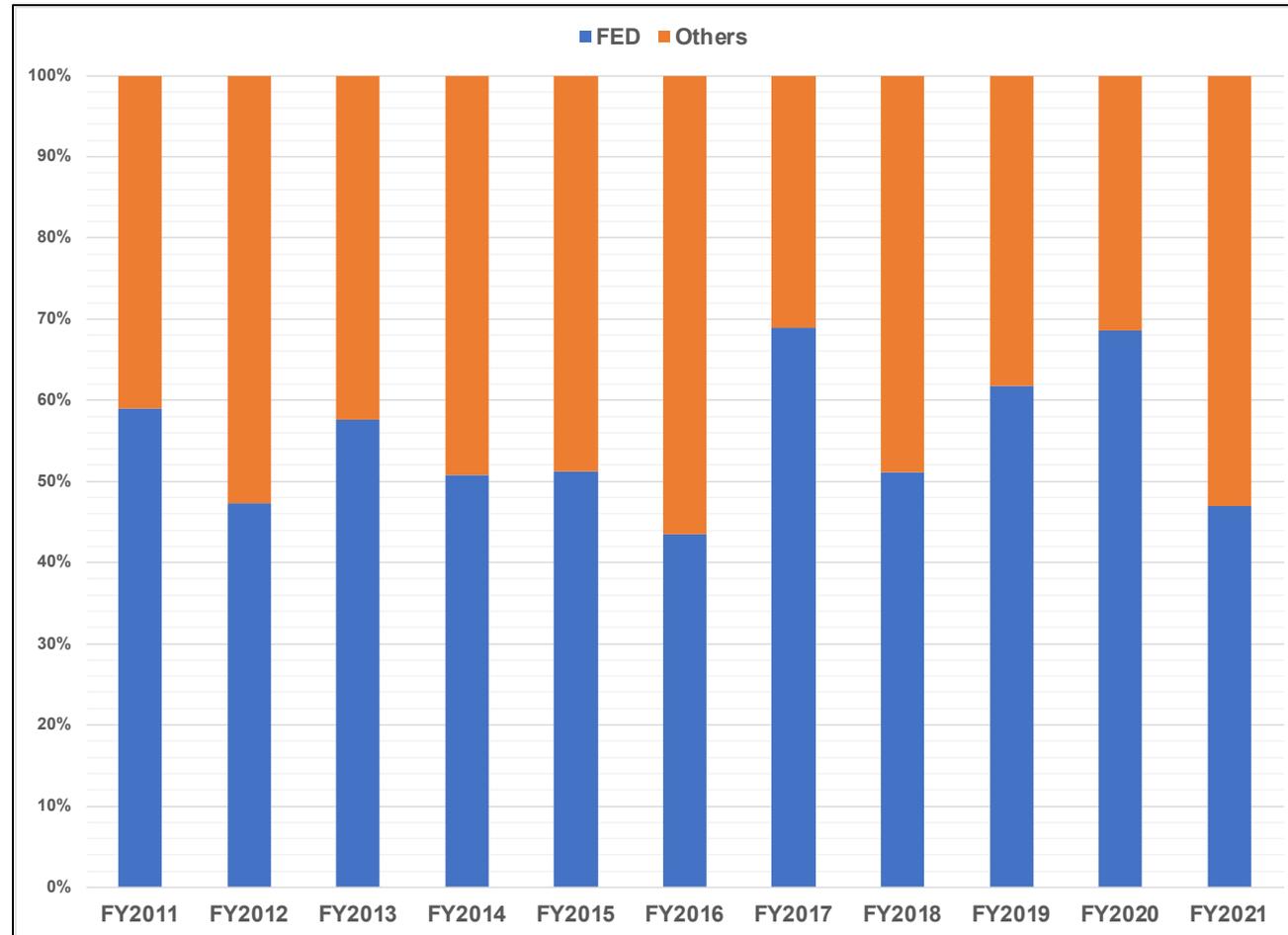


HISTORICAL DATA – FEDERAL VS. OTHERS



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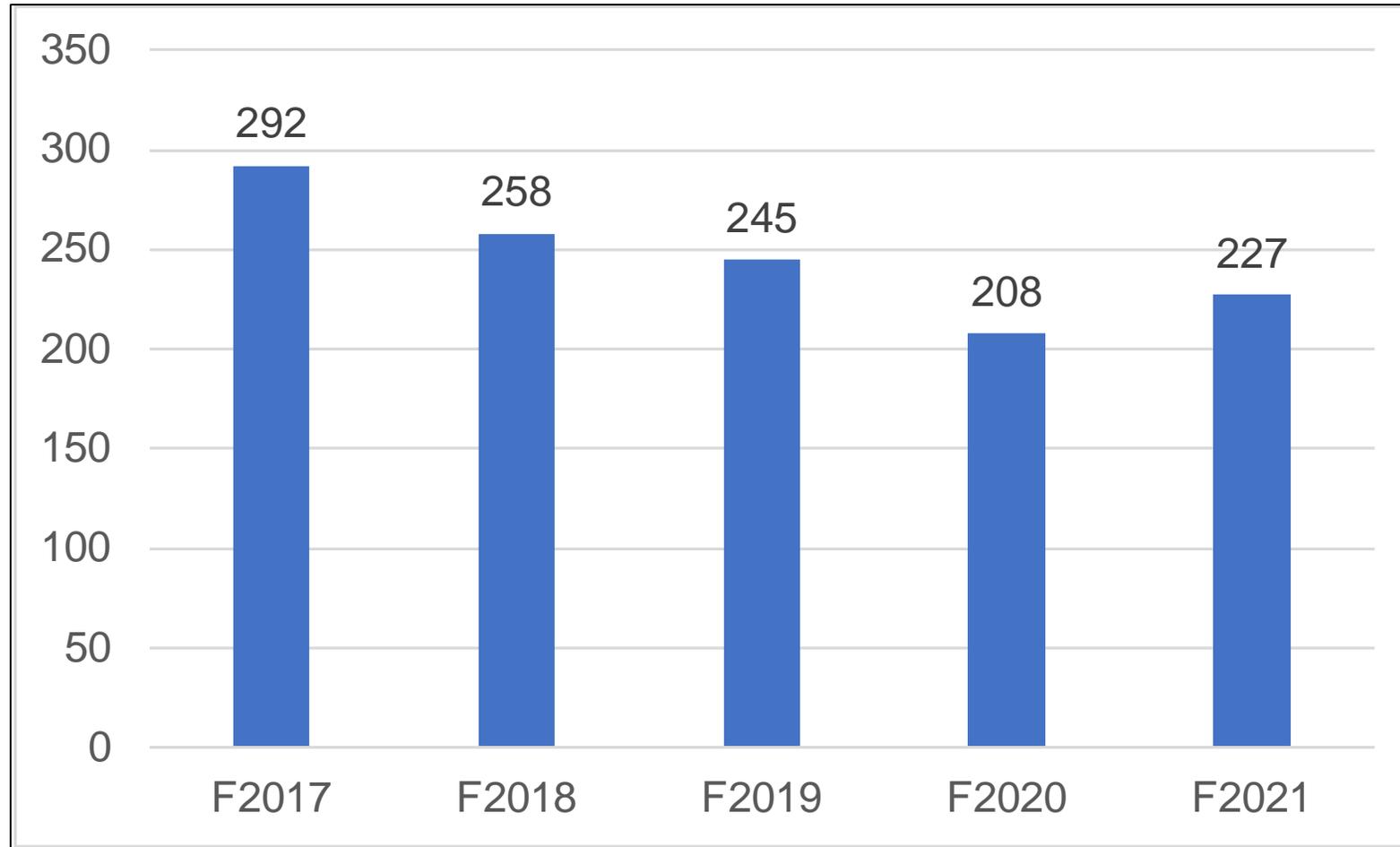


MASTER'S PROGRAMS ENROLLMENT



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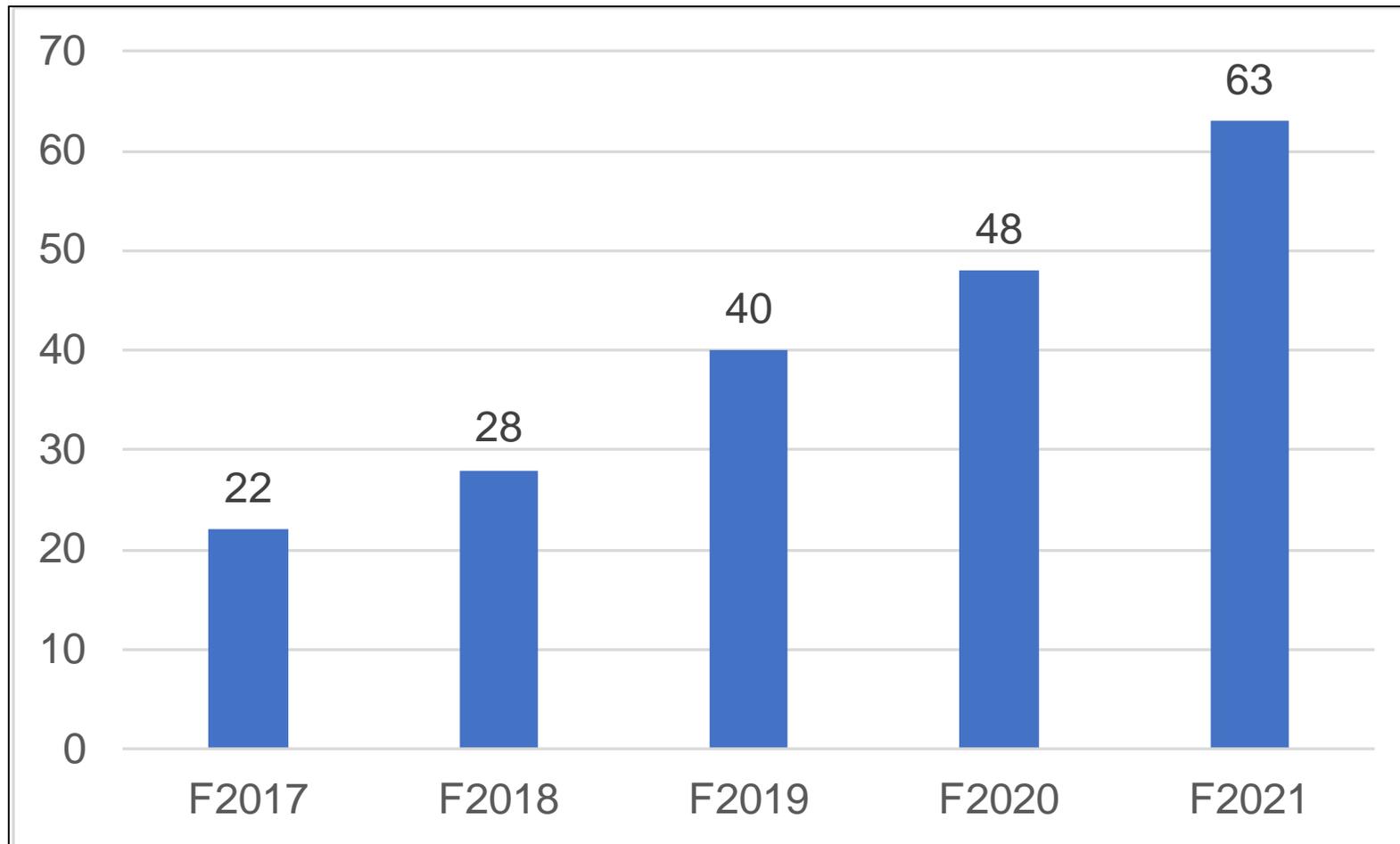


ENGINEERING JDP ENROLLMENT



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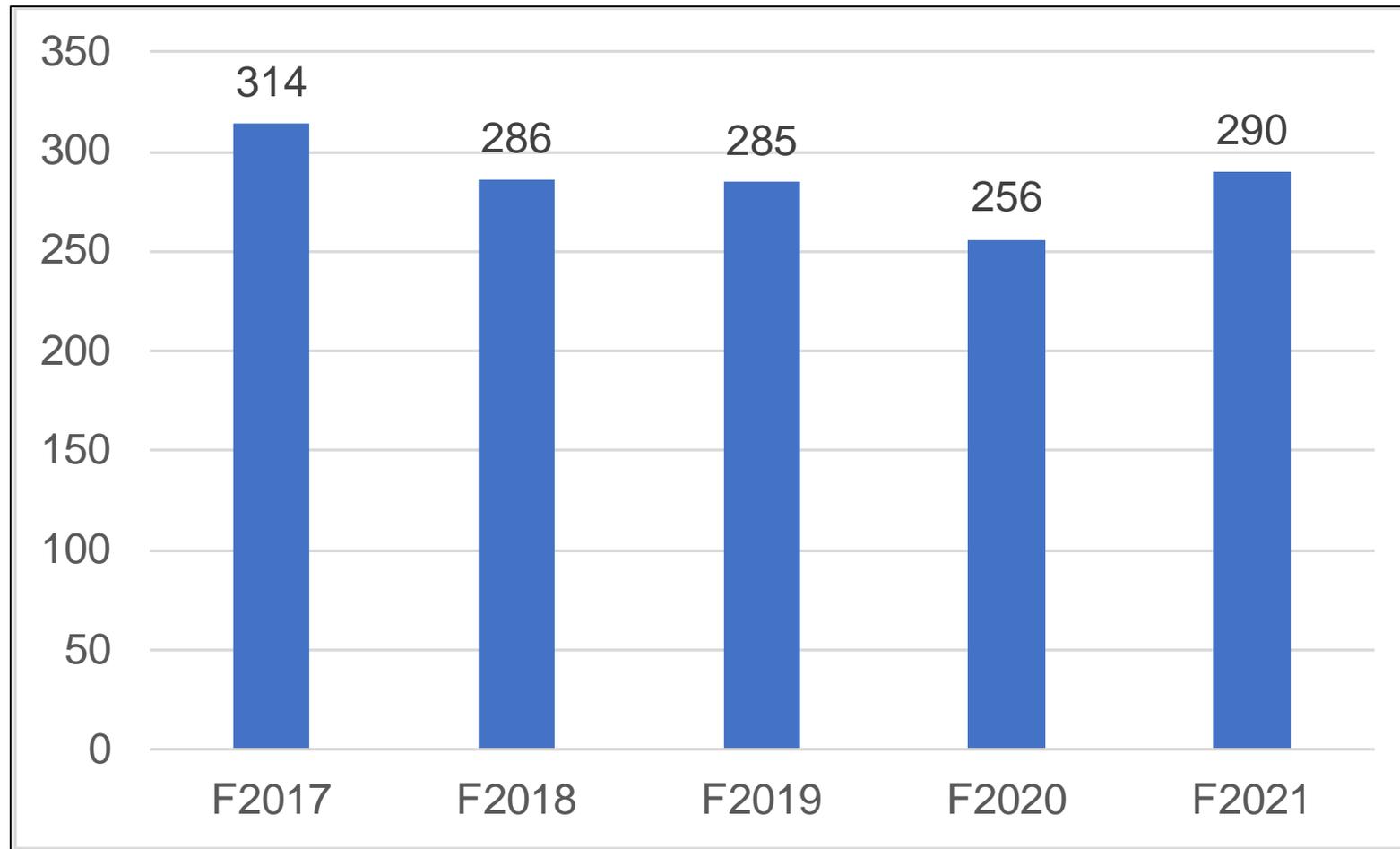


GRADUATE PROGRAMS TOTAL ENROLLMENT



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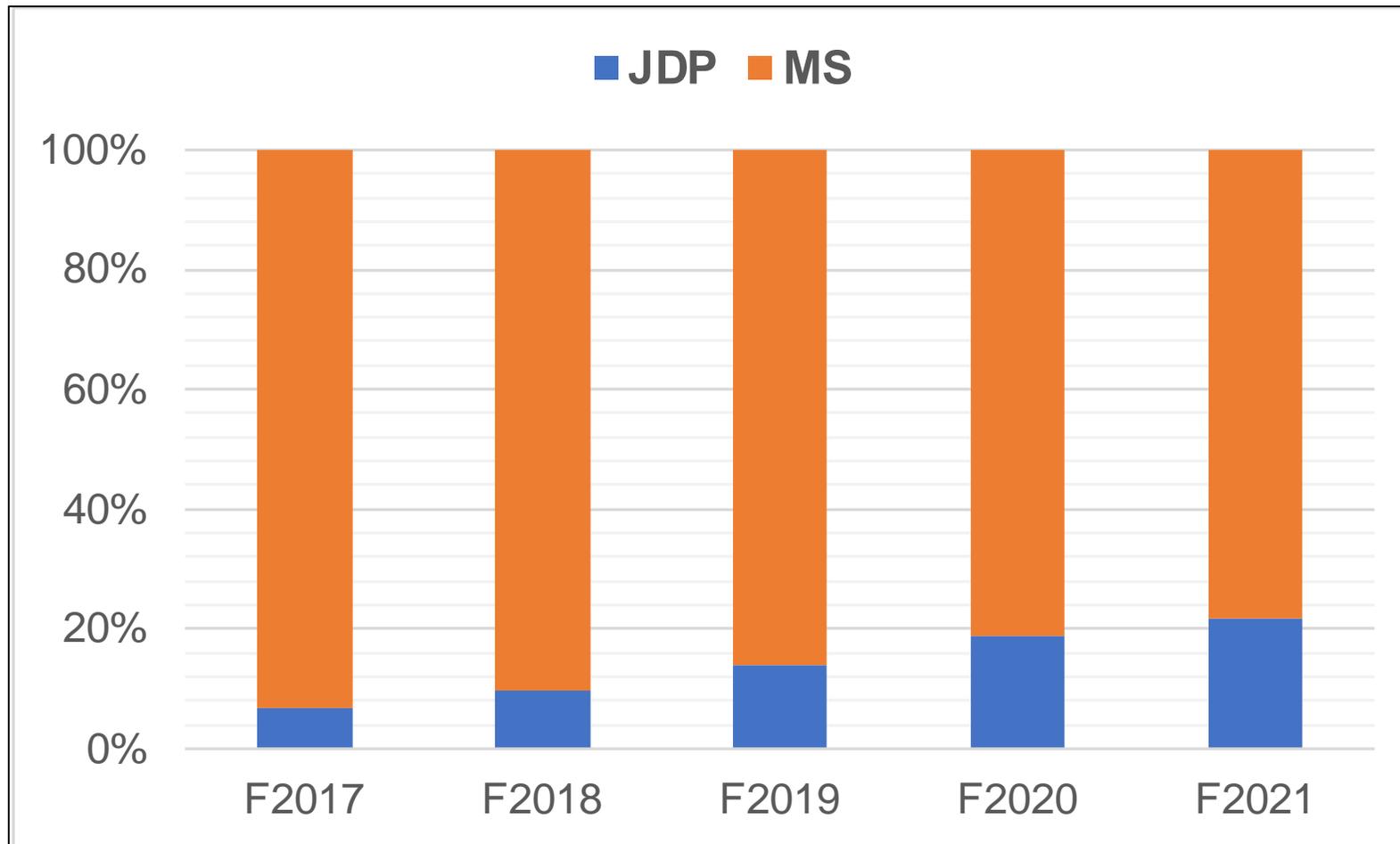


GRADUATE PROGRAMS TOTAL ENROLLMENT



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UNDERGRADUATE PROGRAM UPDATE

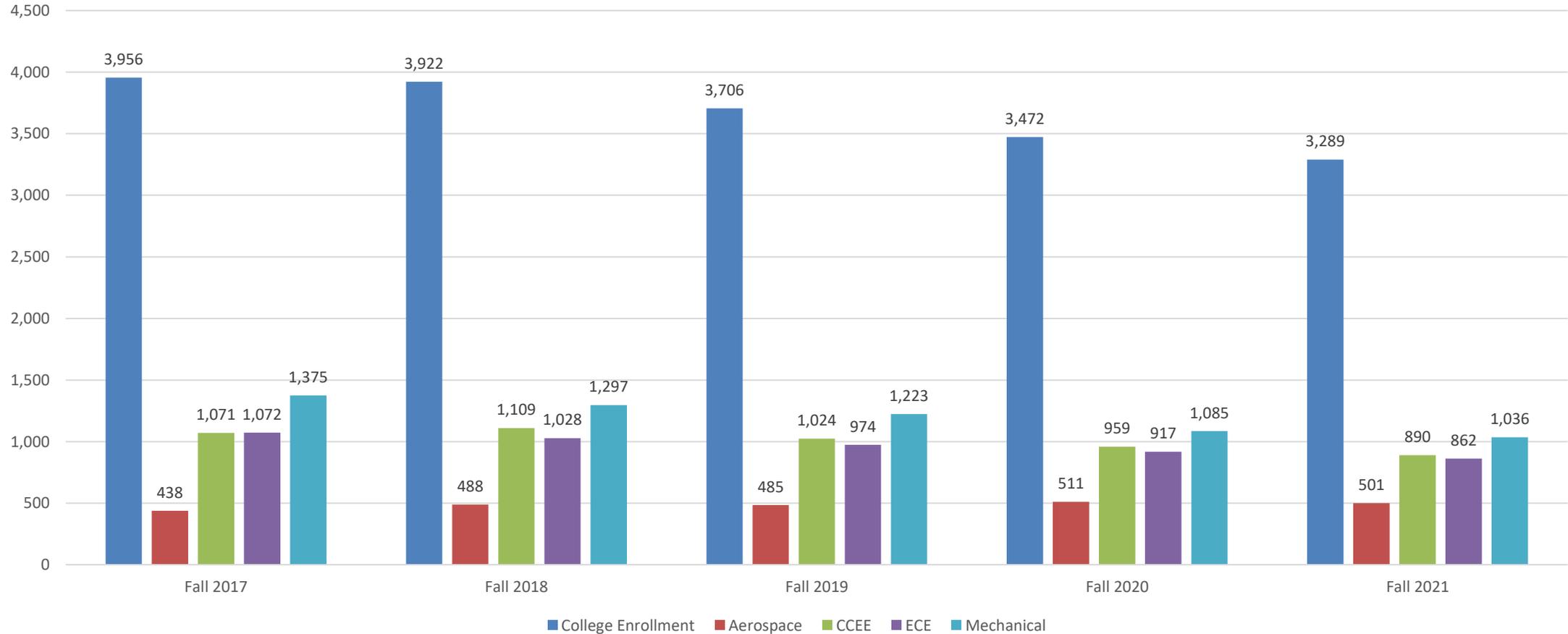
ENROLLMENT TRENDS



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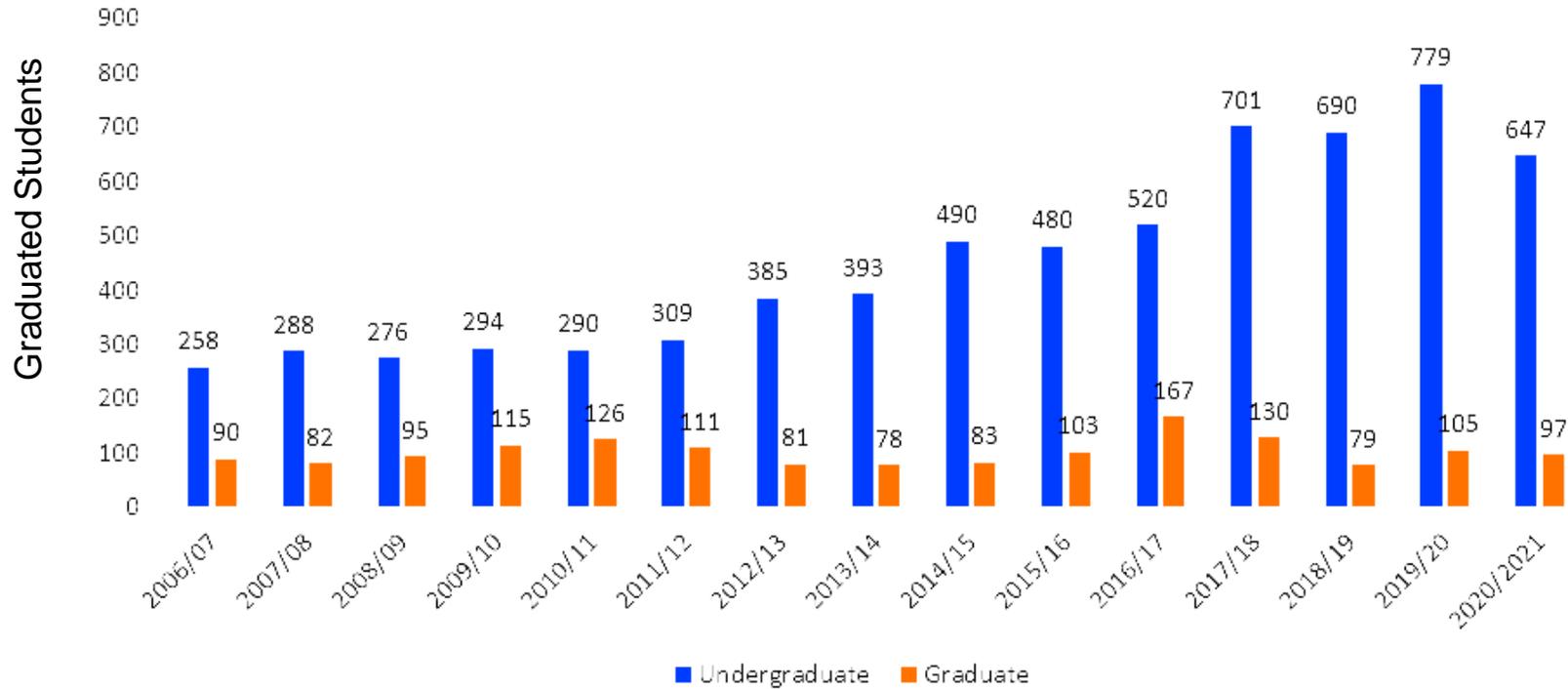
Enrollment Trends



GRADUATION TRENDS



COLLEGE of ENGINEERING - Graduation



ASEE National Rankings:
Workforce Generation

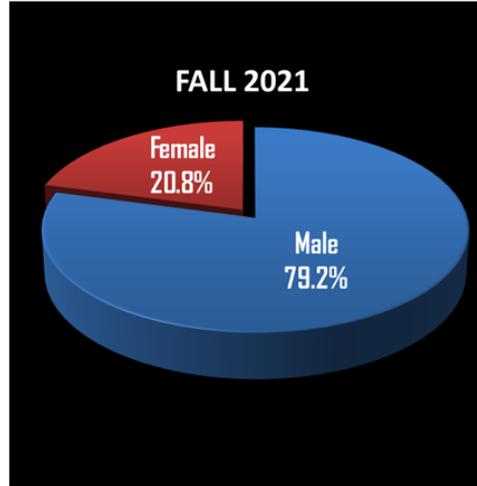
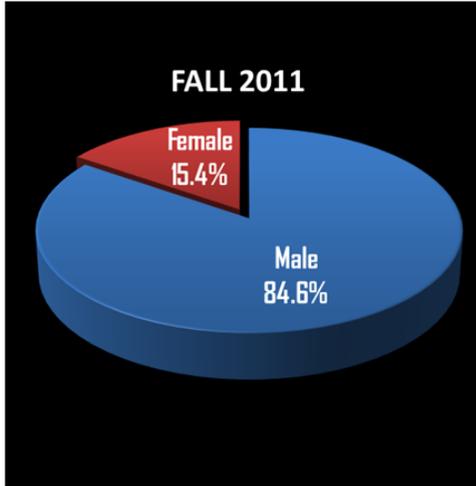
College of Engineering	47 out of 423
Civil Engineering	18 out of 244
Computer Engineering	29 out of 228
Electrical Engineering	28 out of 306
Mechanical Engineering	21 out of 327

SDSU College of Engineering is ranked 25 out of 423 in terms of number of BS degrees to URM

STUDENT DEMOGRAPHICS

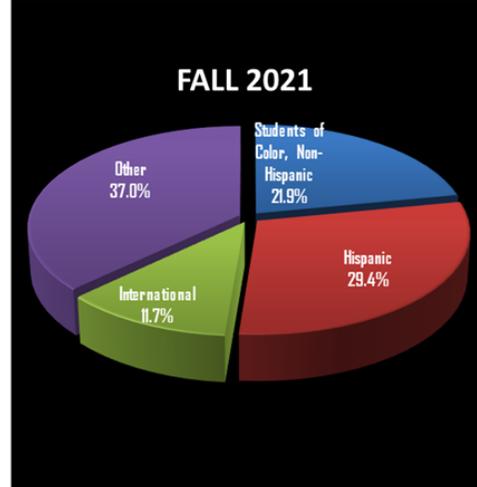
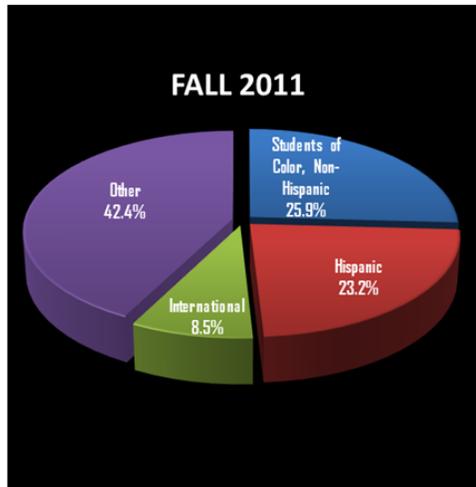


By Gender



Female Students:
15.4% → 20.8%

By Ethnicity



Hispanic Students:
23.2% → 29.4%

International Students:
8.5% → 15.4% → 11.7%
(pre-COVID)

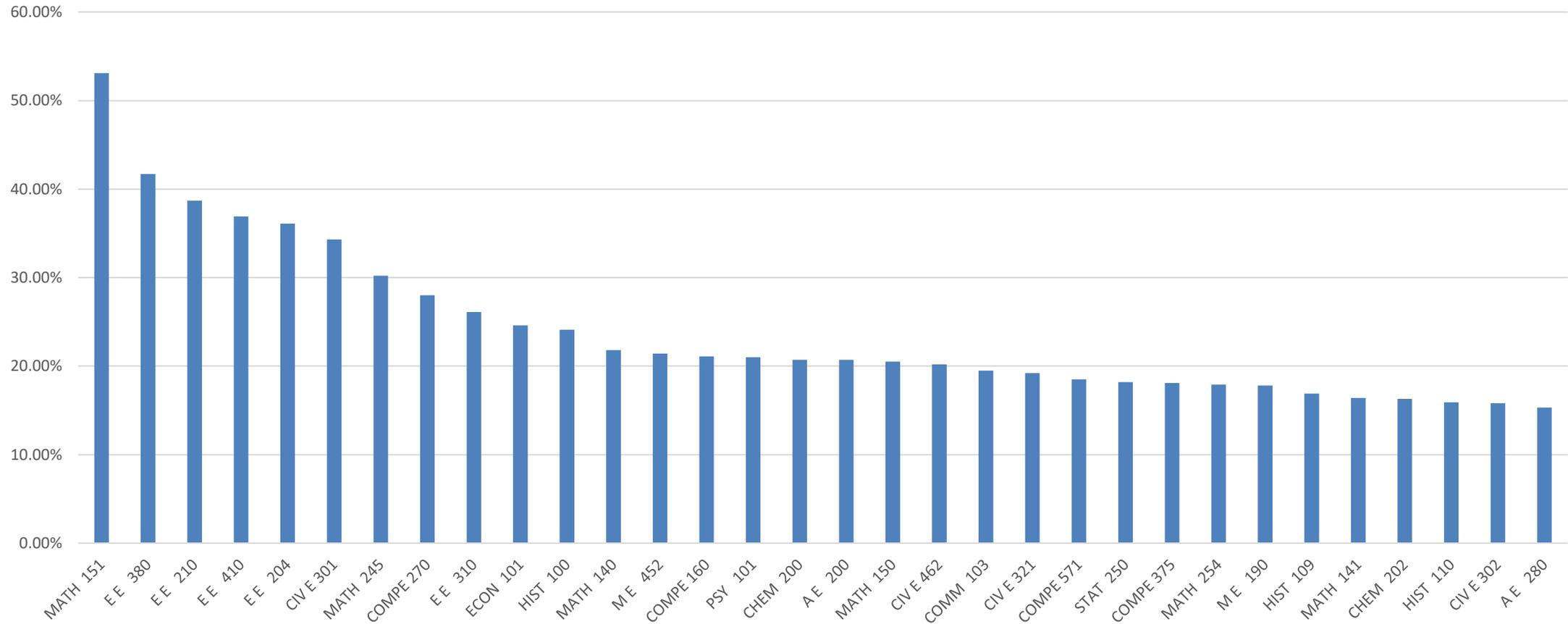
BOTTLENECK CLASSES



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Highest DFW Courses Attended by Engineering Students in Fall 2020



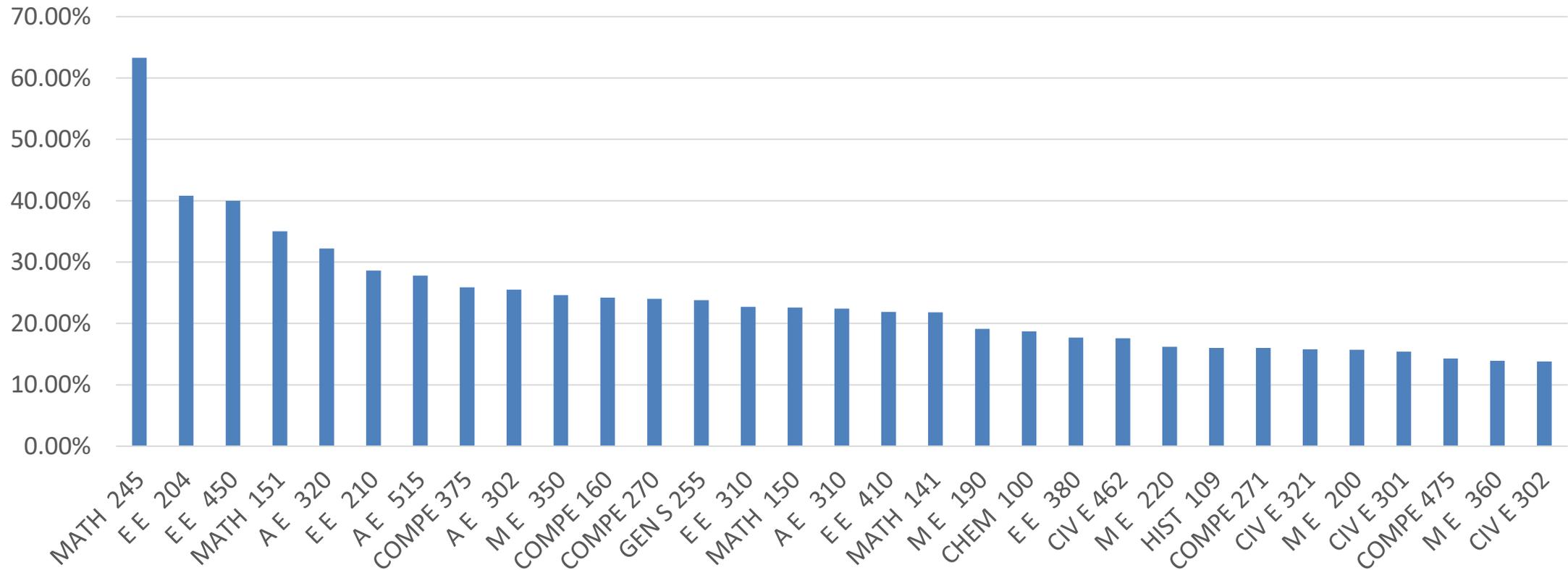
BOTTLENECK CLASSES



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Highest DFW Courses Attended by Engineering Students in Spring 2021



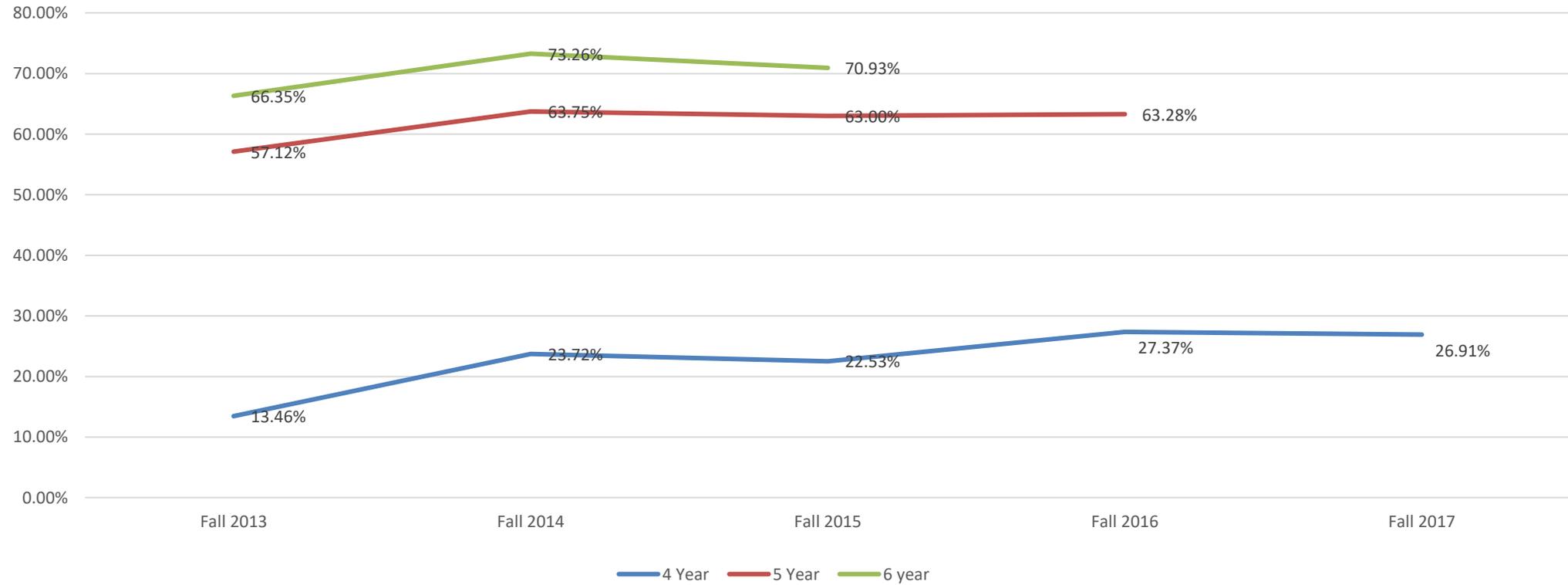
COLLEGE GRADUATION RATES



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Graduation Rates

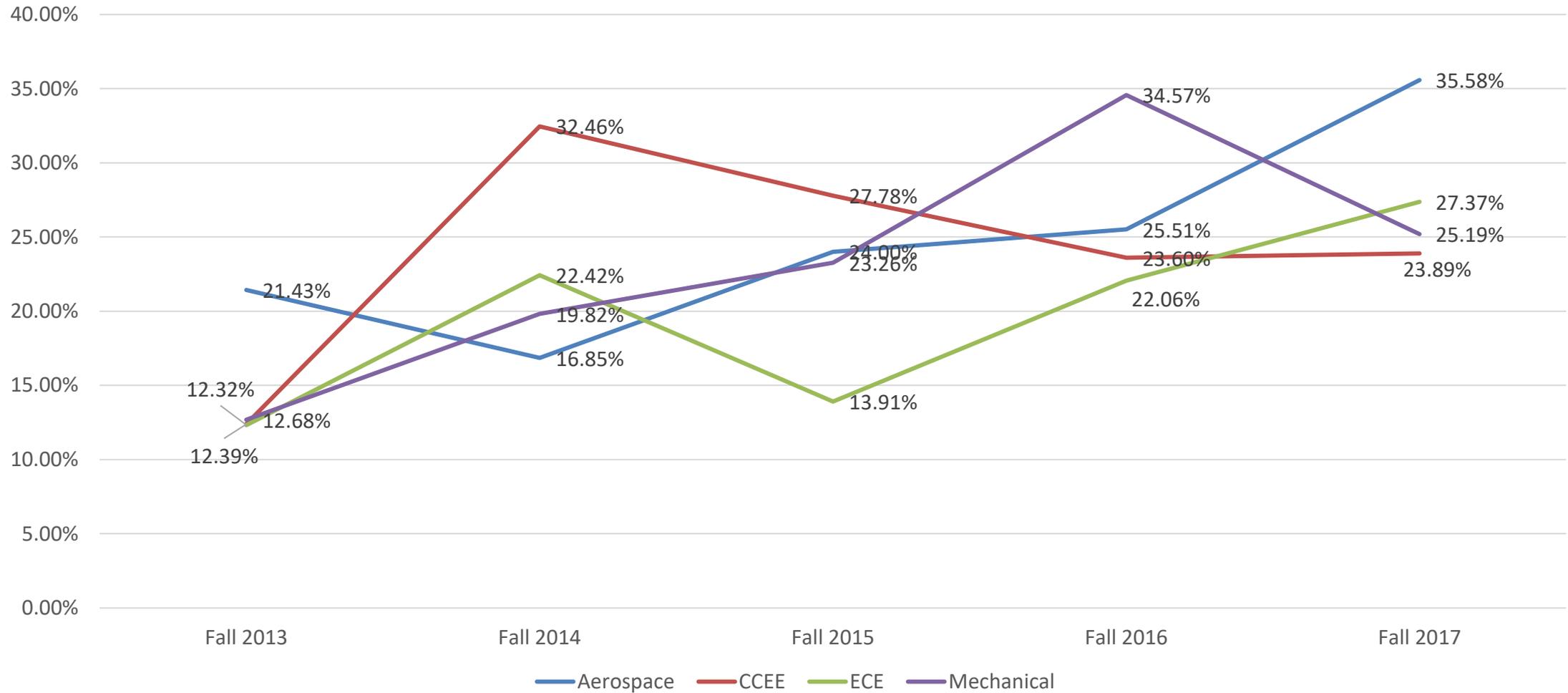


FOUR YEAR GRADUATION RATES



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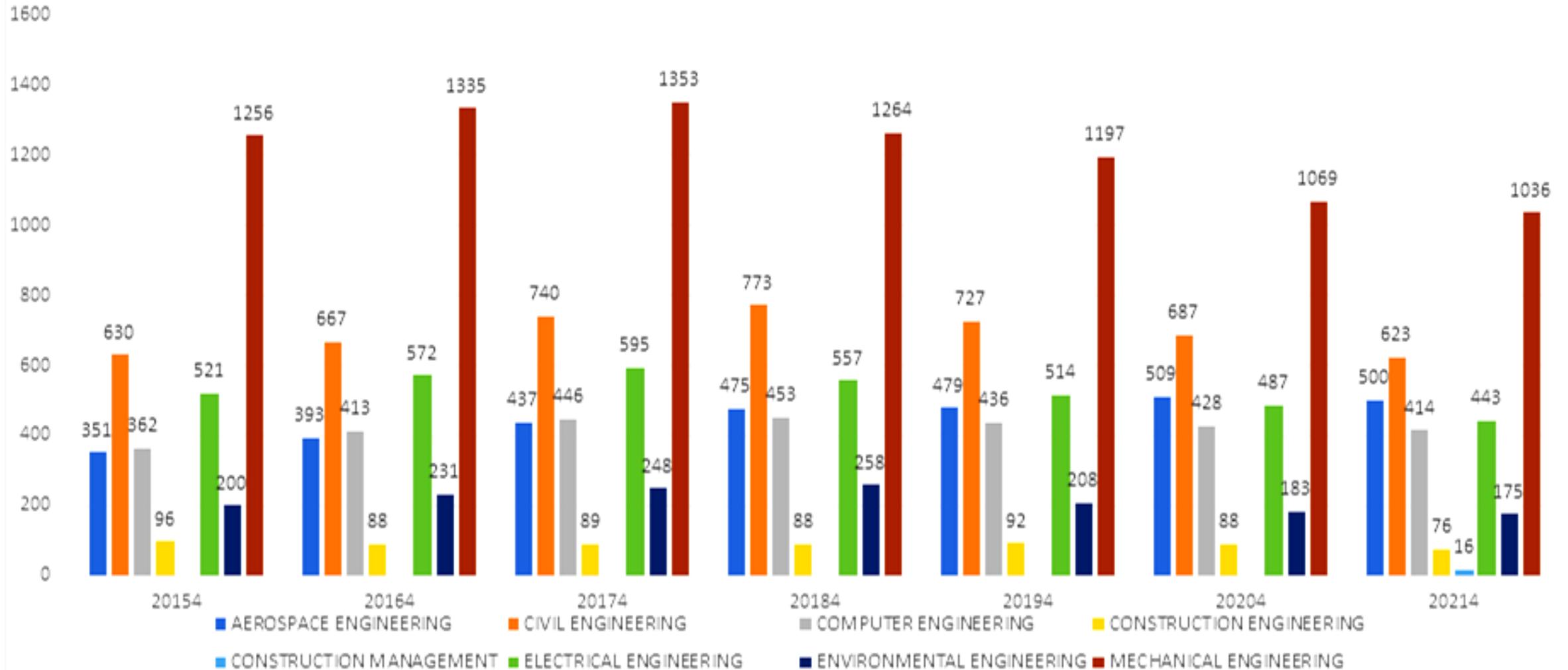


UNDERGRADUATE ENROLLMENT - FALL



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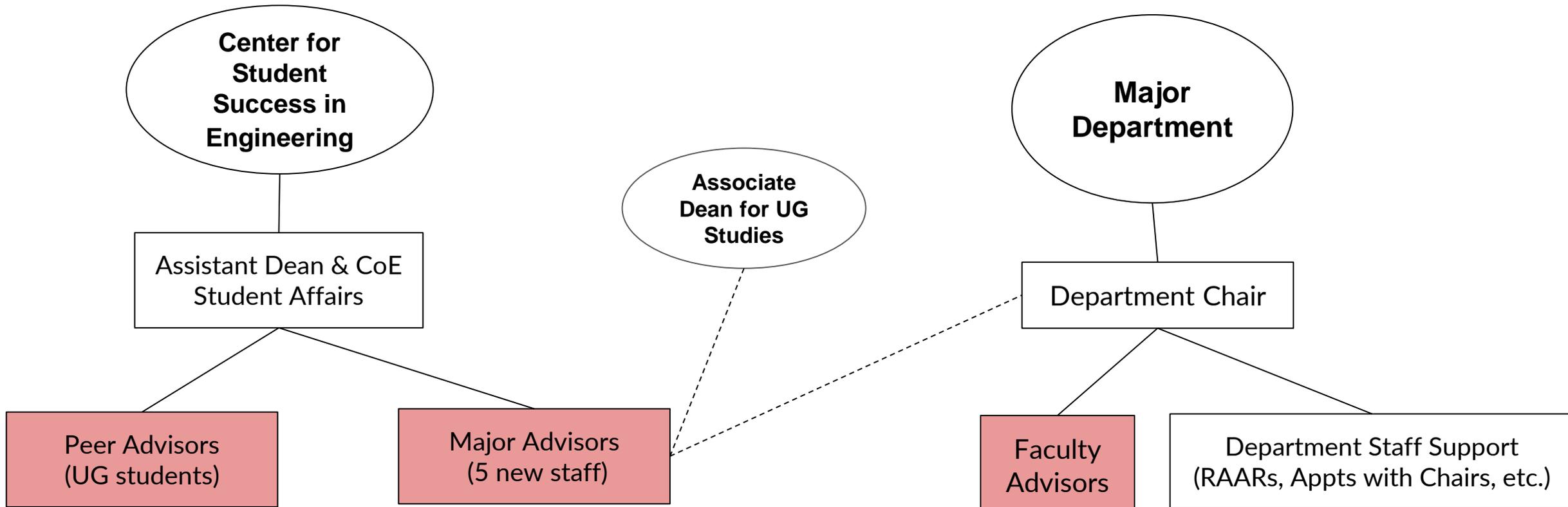
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STUDENT SUCCESS & ENGAGEMENT

❖ New Advising Structure, launched fall 2021

➤ Aligns with SDSU Strategic Plan Priority #5, 'Students at Our Core'



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, see major department website

STUDENT SUCCESS & ENGAGEMENT



❖ Peer Advisors

- Advising Tools
- Support Major Advisors
- Clubs and Organizations

❖ Major Advisors

- Course Planning
- Master Plans
- GE, Major Prep and Major
- Graduation Requirements

❖ Faculty Advisors

- Course Content
- Major/Professional Electives
- Post graduation plans
- Research

Date Range	Description	# of Student Visits to CSSE Advisors
8/23/21 to 9/10/21	Drop-in Advising Visits During Add/Drop Period	358
9/17/21 to 10/8/21	Master Plan Campaign Attendance (Major Advisors Only)	740

STUDENT SUCCESS & ENGAGEMENT

UPCOMING EVENTS



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SAN DIEGO STATE UNIVERSITY
Center for Student
Success in Engineering

OCTOBER IS ENGINEERING ADVISING MONTH

Get ready to register for your Spring 2022 courses by learning about all the advising tools SDSU and the College of Engineering have available. Throughout the month of October 2021, the CSSE Peer Advisors will be hosting advising tool workshops. No RSVP needed; go to the Zoom link on the day that fits your schedule!

Advising Tool Workshops:

- Wednesday, October 13, 10:30am - 12:00pm
<https://sdsu.zoom.us/j/5319806975>
- Tuesday, October 19, 10:30am - 12:00pm
<https://sdsu.zoom.us/j/83637198123>
- Wednesday, October 20, 10:30am - 12:00pm
<https://sdsu.zoom.us/j/5319806975>
- Thursday, October 21, 3:00pm - 4:30pm
<https://SDSU.zoom.us/j/9313734638>
- Tuesday, October 26, 10:30am - 12:00pm
<https://sdsu.zoom.us/j/83637198123>




Center for Student
Success in Engineering

Career Panel Series

College of Engineering

Civil/Construction/Environmental:
October 15, 2021

Mechanical:
November 19, 2021

Electrical/Computer:
February 25, 2022

Aerospace:
April 1, 2022

*Join each of these panel events to hear from professionals in your major.
Make valuable industry connections & gain insightful advice from local engineers.*

Time: 12:30pm-1:30pm
Place: Zoom

↓
<https://tinyurl.com/engpanelseries>



- Pumpkin Drop, 10/26 12-3pm, Student Union Courtyard
- Engr Club & Org. Fair, 10/13 11-2, Student Union Courtyard
- Research & Grad School Fair, 11/9 12-4, Scripps Cottage



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COMMUNITY & COMMUNICATION



FEMINEER® & WOMEN IN ENGINEERING



• Connecting with Femineer® Teachers

- Continued to host Virtual Educator Collaboration seminars All 3 Femineer® curriculum have officially been UC A-G approved – The Femineer® Program can now be an elective during the class day
- Created a library of curriculum refresher videos on NEO Learning Management System for teachers

• Femineer® Teacher Training

- SDSU hosted Fall 2021 Virtual Teacher Training in October. 20 middle & high school teachers were trained, across 4 states.
 - Creative Robotics: 12
 - Wearable Technology: 5
 - Pi Robotics: 3

Affiliate University Partnership

- Bi-monthly Zoom meetings with Cal Poly Pomona partners Launched Virtual Student Seminars through 2021-22 academic year
- Hosted 3 one-week Femineer® Summer Day Camps for middle & high school students with Creative Robotics & Wearable Technology implemented in the curriculum

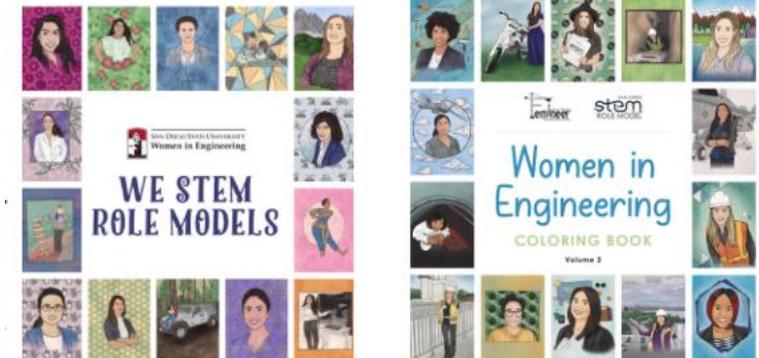
• Connecting with Femineer® & WE Students

- Twitter & Instagram (@Femineer_SD and @SDSU_WE)
 - Total of # Followers - Instagram: 312, Twitter: 315
- Posted past Femineer® Challenges & STEM Talks on SDSU Femineer® Program YouTube Channel
 - Over 1,095 views
- Created and distributed vol.1 (Spring 2021) & vol. 2 (Summer 2021) of the STEM Role Model Coloring Books
 - 1,500+ vol. 1
 - 2,000+ vol. 2
 - 3,500+ Total distributed coloring books



WE Coffee Hours

- Hosted in-person Fall 2021 semester. An additional hour has been added based on student feedback



MESA Student Receives
 CSU Endowed Scholarship!



Engineering Her Future

Nicole Hurtado-Savin, Civil Engineering senior, receives a CSU endowed scholarship and wants to help younger women break the gender and cultural stereotypes she has already started to overcome.

At SDSU, she credits two programs aimed at helping underrepresented minorities for providing critical support: CSU-LSAMP and the MESA (Mathematics, Engineering, Science Achievement) program.



Would you like to be a mentor? Are you looking for a mentor?

Join our virtual interest meeting to learn more.

Date: Thursday, August 12, 2021
 Time: 5:00 - 5:45PM
 Register Here to Receive Zoom Link:
<https://SDSU.zoom.us/j/9121212121>

Virtual & In Person Programming



Solar Turbines
 A Caterpillar Company



virtual COLLEGE SHADOW DAY



SDSU MESA IS INVITING YOU TO THE...

NIWC PANEL
 Naval Information Warfare Center PACIFIC

Naval Information Warfare Center

DATE: October 6, 11AM-12PM
 Join us on ZOOM



MESA presents the **Graduate School Panel**

Event Information
 When: Wednesday, October 13th 2021
 Time Sessions: 2pm to 3pm, 3pm to 4pm
 Location: See MESA Monday E-Newsletter



MESA COLLEGE NIGHT
 for High School Juniors and Seniors
 October 21, 2021
 4:30 - 6:00pm

UNIVERSITIES PRESENTING:
 University of the Pacific, Fresno State, UC Santa Cruz, CSU East Bay, San Jose State, UCLA, USC, UC San Diego, San Diego State, CSU LA, CSU Long Beach, UC Irvine, UC Santa Barbara, UC Riverside, Community College Transfer Pathways

RAFFLE PRIZES
 \$25 gift certificate, earbuds, Hydro Flask®, College Hoodies and Tees, Caps, beanies and bags and more!

SESSION TOPICS:
 Admissions, Financial Aid and Scholarships, MESA Student Resources and more!

REGISTER NOW!
tinyurl.com/mesacollegenight2021



Virtual Alumni Chat
 with SDSU MESA Alumni:

2:00pm Chat
 SARA ARREDONDO '19
 *NAVAIR
 Degree: Mechanical Engineering

3:00pm Chat
 FRANCISCO GARCIA '15
 ChargePoint
 Degree: Mechanical Engineering

NOEL GARCIA '17
 NAVAIR
 Degree: Electrical Engineering

JAMIE BLOCKEY '20
 Booz Allen Hamilton
 CourseKey
 Degree: Aerospace Engineering

MELISSA CORONA '03
 San Diego Regional Quality Water Control Board
 Degree: Civil Engineering

JENNIFER M VELAZQUEZ '19
 Airforce Research Laboratory
 Degree: Aerospace Engineering

SASHARY RAMOS '15
 Ruhr University Bochum
 Degree: BioChem

Wednesday, October 27, 2021
 2:00 and 3pm



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 2021 Semester:

- ➔ In Process of hiring a Troops to Engineers Coordinator
- ➔ Planning for late Fall check-in with students
 - ◆ Monthly Lunch Hour Check-in
- ➔ Virtual professional development events
 - ◆ Business etiquette
 - ◆ Salary negotiations
 - ◆ Resume reviews
 - ◆ Mock interviews
- ➔ Emerging Engineer Identity Course – Pushed to Fall 2022
 - ◆ Designed to mitigate transitional barriers of student veterans navigating the physical and emotional challenges of simultaneously pursuing a degree and job searching.
 - ◆ Incorporate industry partners/SME’s to continue to provide professional development and career readiness.
- ➔ Resume Book for prospective employers



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UPDATE ON DEI COMMITTEE

DEI COMMITTEE : FALL 2021 ACTIVITIES



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- **Coordinating with Department DEI Committees:**
 - Individual meetings with each Department Committee to ensure their success in establishing a Department DEI Plan
 - Reviewing Department DEI work on student success/performance data analysis and equity gaps by the College DEI committee
- **Focus on Goal#2: Increasing URM graduate students**
 - Launching “Grad Info Fair” for our undergraduates (and other STEM majors too) – 11/9/2021 at Scripps Cottage
 - Extensive interviews, presentations and visits to Native American reservations (Rencon, Soboba and Pala tribes) – education outreach plans and program developments in the pipeline
 - WE-Believe – summer 2021 research exposure program for our URM undergraduates for 3-weeks – PI Dr. Karen May-Newman

FALL 2021 & SPRING 2022

CoE IMPORTANT DATES TO REMEMBER



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Fall 2021

- **October 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** – Virtual
- **December 7, 2021 (Tue)** – 11:00am-12:00pm – **CoE Faculty Mtg** – Virtual
- **December 9, 2021 (Thu)** – 1:30pm-2:30pm – **CoE Staff Mtg** – Virtual

Spring 22

- **May 5, 2022 (Thu)** – 1:00pm-4:00pm – **CoE Senior Design Day**– Montezuma Hall



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THANK YOU!