



TEXAS A&M UNIVERSITY

Engineering

IEEE Life Member and Consultants
Network Meeting August 18, 2020

**A New Pathway to a Premier Engineering Degree
– ACC and TAMU Partnership**

Shana Shaw, Associate Professor of Practice

Texas A&M University At A Glance

2,500+

in the Corps of Cadets,
the "Keepers of the
Aggie Spirit"

500,000+

FORMER STUDENTS

1,100+

student-led clubs and
organizations

Opened in

1876

Primary Location:
College Station, Texas

69,367

TOTAL ENROLLMENT

FALL 2018

CORE VALUES

Excellence

Loyalty

Integrity

Respect

Leadership

Selfless Service

92

DOCTORAL DEGREE
PROGRAMS

FIVE

FIRST PROFESSIONAL
DEGREE PROGRAMS

133

UNDERGRADUATE
DEGREE PROGRAMS

175

MASTER'S DEGREE
PROGRAMS

26%

of graduating seniors
participated in
undergraduate research

5,321

students studied abroad
during the 2016-2017
academic year

number

1

public university **in the nation** -Washington Monthly

“best value college” in Texas -U.S. News and World Report

most affordable university in the state -College Affordability Guide

most students **studying abroad** -Institute of International Education

most graduates who are CEOs of **Fortune 100 companies** -Fortune



TEXAS A&M UNIVERSITY Engineering

Consistently Ranked in Top 10



3rd in the nation in research expenditures

696



FACULTY

2.1 MILLION



SQUARE FEET OF
LEARNING SPACE

75



PROFESSORS OF PRACTICE

251



PROFESSIONAL
SOCIETY FELLOWS

27



NATIONAL & INTERNATIONAL
ACADEMY MEMBERS

100%



OF ENGINEERING CLASSES LESS
THAN 100 STUDENTS

22 majors

AEROSPACE



ARCHITECTURAL



BIOLOGICAL
& AGRICULTURAL



BIOMEDICAL



CHEMICAL



CIVIL



COMPUTER
ENGINEERING



COMPUTER
SCIENCE



COMPUTING



ENVIRONMENTAL



ELECTRICAL



ELECTRONIC SYSTEMS
ENGINEERING TECH



INDUSTRIAL
DISTRIBUTION



INDUSTRIAL



INTERDISCIPLINARY



MANUFACTURING
& MECHANICAL
ENGINEERING TECH



MATERIALS
SCIENCE &
ENGINEERING



MECHANICAL



MULTIDISCIPLINARY
ENGINEERING TECH



NUCLEAR



OCEAN



PETROLEUM



Admissions Pathways Application Types

1. Incoming Freshman Application
2. Remote Academy Application
3. Transfer Application





Texas A&M Engineering Academies

Overarching Goals



ACCESS

Partnering with community colleges enabling students to progress



AFFORDABILITY

Maximizing student services to make education more equitable



COMPLETION

Integrating student success programs to increase completion rates

Contributing to the Technically Trained Workforce

- Texas A&M Engineering Academies launched in 2015
- First Engineering Transition Program of its kind in the United States
- Students are co-enrolled with Texas A&M University and one of 7 partner CC across the state
- After one to two years, students transition to TAMU to complete their degree – they are not transfer students nor do they have to submit another transfer application since they were already admitted to TAMU
- Industry partners: Chevron Corporation and Concho Resources



Texas A&M Engineering Academies

save up to
\$4,100
PER SEMESTER

Save as much as **\$4,100** a semester compared to taking 15 credit hours at Texas A&M—a total savings up to **\$16,400** over two years.



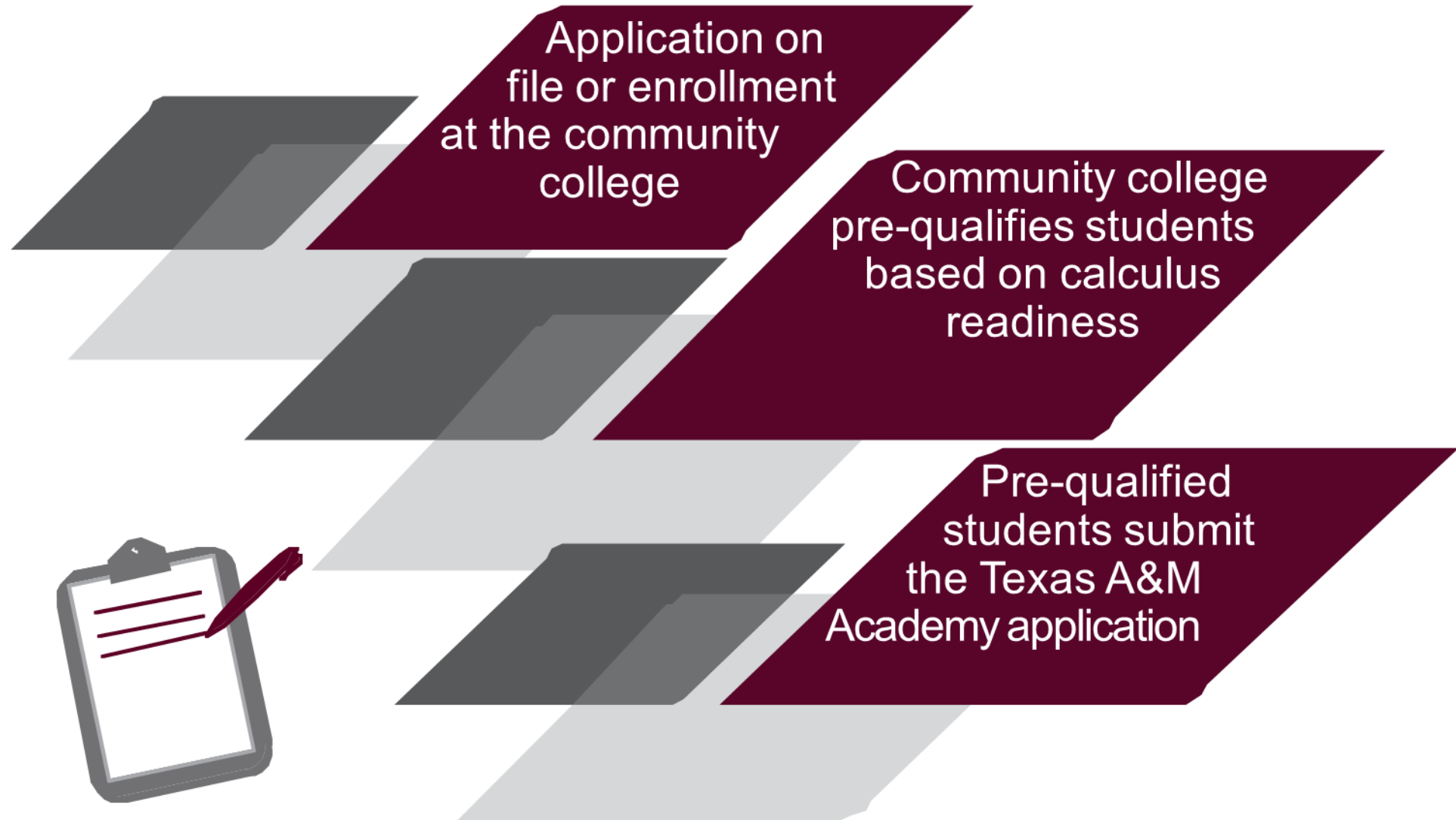
SMALLER class sizes



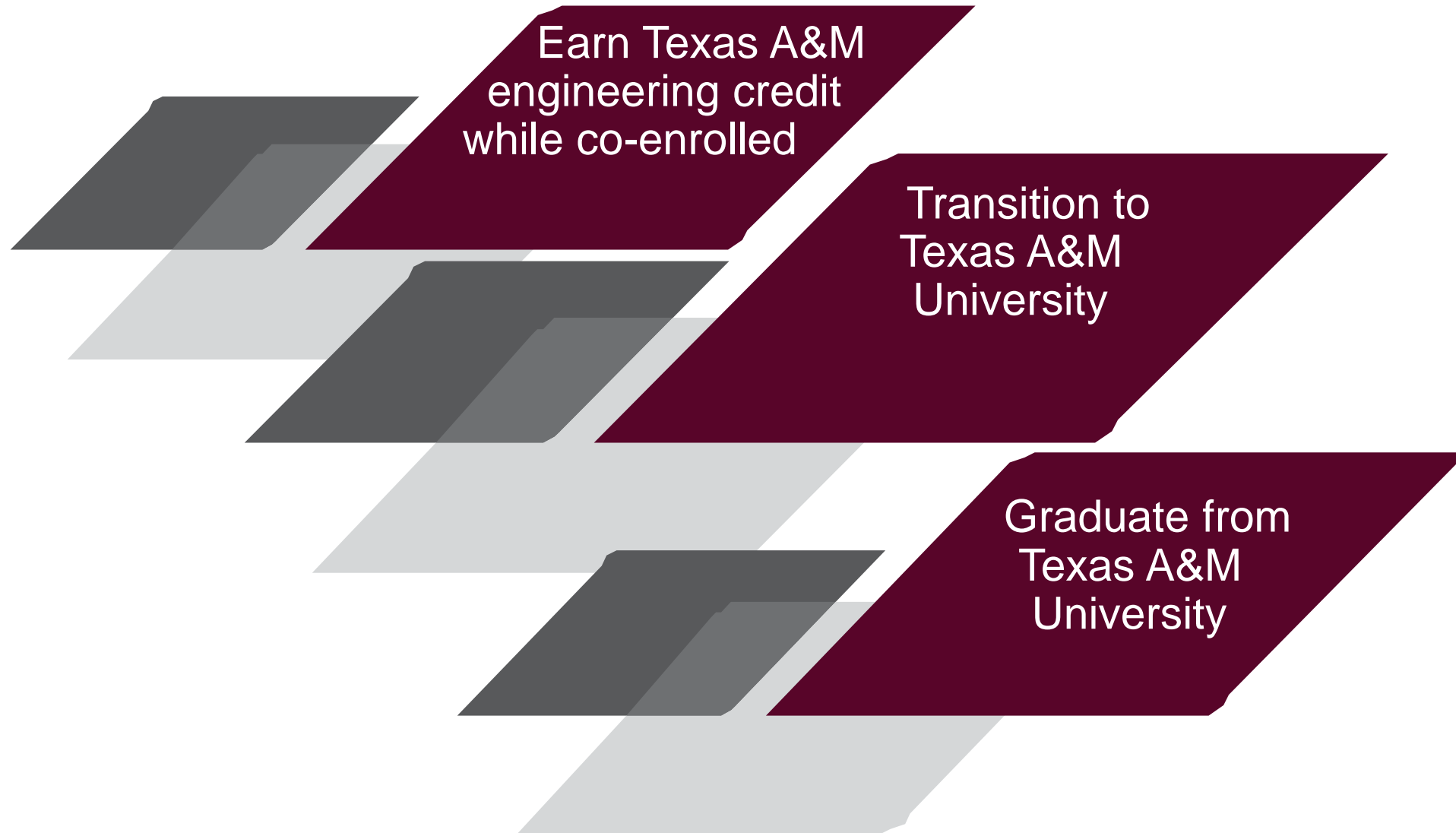
GRADUATE FROM
Texas A&M University



Application Process



Enrollment Process



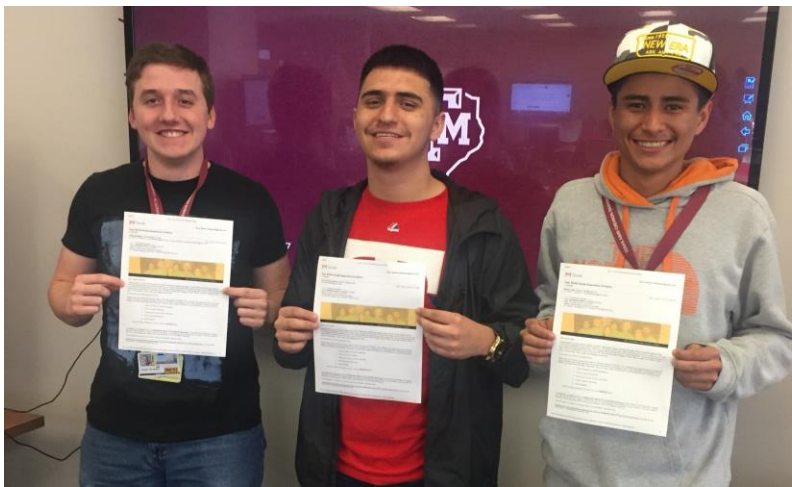
Time to Degree



Student Experiences



Global Programs • Career Fair • Aggie Football Game & Tailgate • Aggies Invent • Internships





So far in Austin...

- **Texas A&M-Chevron Engineering Academy at Austin Community College launched in 2017 with 68 students.**
- **The 4th cohort starting in the fall 2020 semester will be the largest cohort of any of the seven academies with 110 students!**
- **Student success indicators show that academy students have a higher GPA and higher retention rates as compared to their peers who start their engineering path in College Station.**
- **Student demographics:**
 - **Ages 14 - 38**
 - **Approximately 40% Hispanic, 35% White, 20% female, 15% Asian, 7% multi-racial not including black, 3% Black, and 2% international students**
 - **Approximately 45% Pell eligible with demonstrated financial need**



So far in Austin...

- **The Texas A&M-Chevron Engineering Academy at Austin Community College is reaching our goals to increase the access, affordability, inclusion, and completion for all engineering students, especially with minority and lower socio-economic groups.**
- **Further, we are helping to increase the engineering workforce across Texas and the nation.**
- **Hopefully, you may work with some of our graduates soon!**



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THANK YOU!



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