

HACU's PreK-12/Higher Education Collaboration Symposium

David De Sousa, Ph.D



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

CORE VALUES

Excellence

Integrity

Leadership

Selfless Service

Loyalty

Respect

92 **DOCTORAL DEGREE**

PROGRAMS

FIVE FIRST PROFESSIONAL **DEGREE PROGRAMS**

133

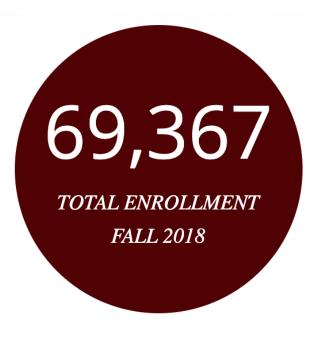
UNDERGRADUATE **DEGREE PROGRAMS** 175

MASTER'S DEGREE **PROGRAMS**

Opened in

1876

Primary Location: College Station, Texas



26%

of graduating seniors participated in undergraduate research 5,321

students studied abroad during the 2016-2017 academic year

Texas A&M Engineering Academies By The Numbers

STUDENTS RETAINED AFTER

1 YEAR THAT STARTED IN

THE ACADEMY BETWEEN

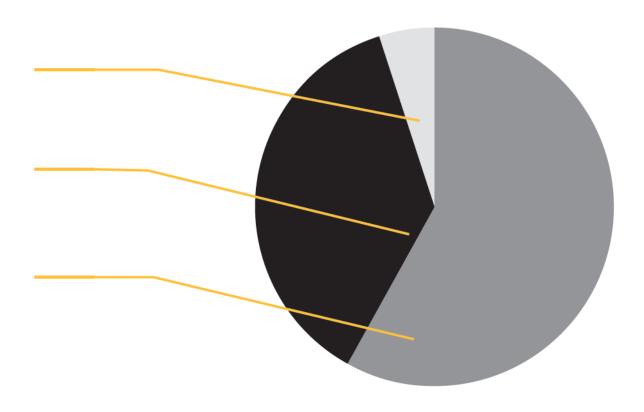
2015-2017

65%

5% BLACK

37%
HISPANIC

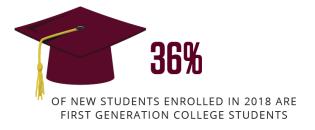
58% OTHER



OF STUDENTS THAT HAVE TRANSITIONED TO TEXAS A&M FROM AN ACADEMY





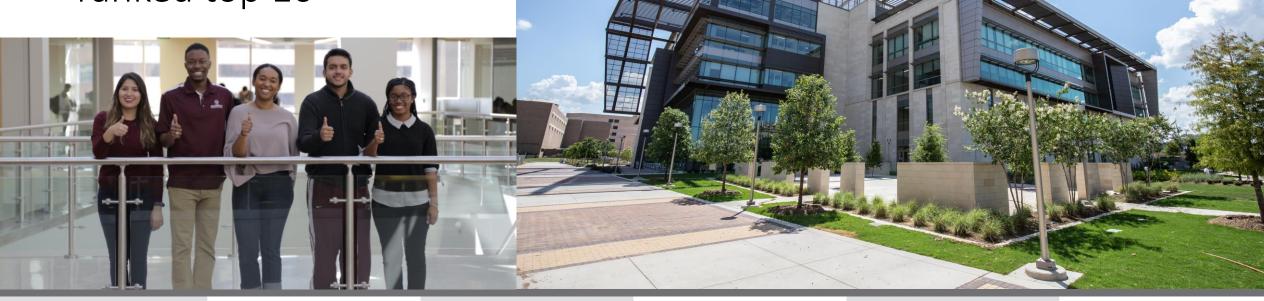




2% VETERANS



Consistently ranked top 10



696



2.1 MILLION



75



251



PROFESSIONAL SOCIETY FELLOWS 27

3rd in the nation in research expenditures



100%



OF ENGINEERING CLASSES LESS THAN 100 STUDENTS

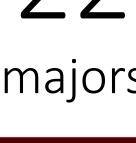
AEROSPACE majors **BIOMEDICAL**











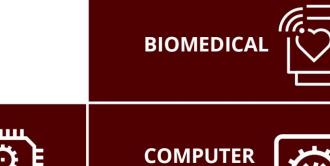
COMPUTER

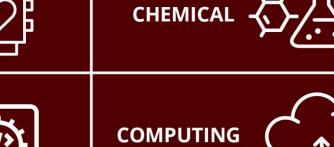
ENGINEERING

ELECTRICAL

MULTIDISCIPLINARY

ENGINEERING TECH

























ENGINEERING TECH





Aggie Engineering Opportunities

- General engineering at College
 Station campus
- Engineering at Galveston
- Engineering at McAllen
- Engineering Academy at Blinn-Bryan
- Remote Engineering Academies



Workforce Needs

Office of Science and Technology Policy



President's Council on Science and Technology Report to the President:

1 million more STEM degrees needed in the next decade



President's Council
on Jobs and
Competitiveness
"...goal to graduate
10,000 more
engineering
students from U.S.
colleges and universities
each year..."



Projected need for engineers entering the workforce in Texas:

53,000 more by 2024

an increase of 18%







- 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 anther transfer application since they were already admitted to TAMU
- Industry partners: Chevron Corporation and Concho Resources





Texas A&M Engineering Academies



ACCESS

Partnering with community colleges enabling students to progress toward an engineering degree

AFFORDABILITY

Maximizing student services to make education more equitable

COMPLETION

Integrating student success programs to increase completion rates.

\$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.





Experience smaller class sizes during your **co-enrollment**.





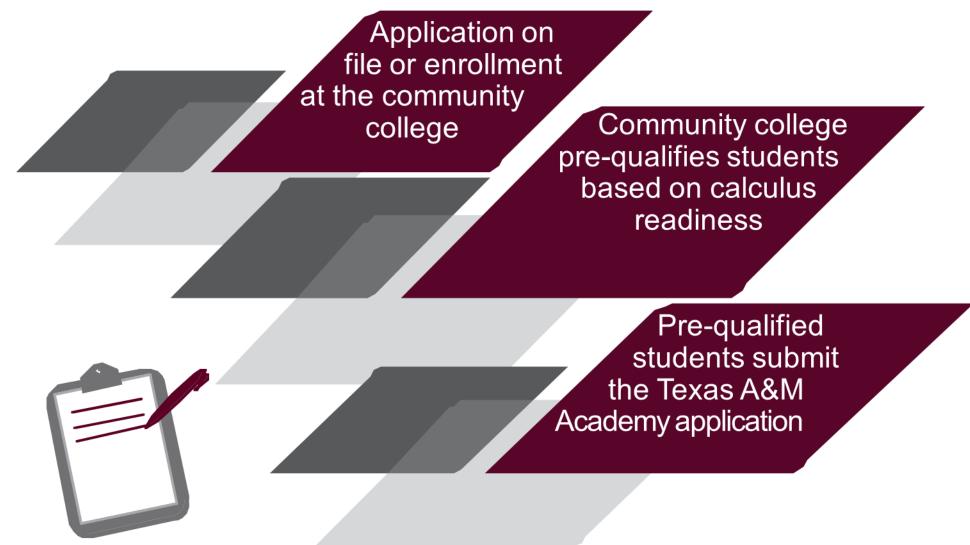






Application Process





Enrollment Process





Sample First Year Schedule

Fall	Spring
Texas A&M – ENGR 102 (2 cr.)	Texas A&M – ENGR 216 (2 cr.)
CC – Science course (4 cr.)	CC – Science course (4 cr.)
CC – Math course (4 cr.)	CC – Math course (4 cr.)
CC – Core curriculum (3 cr.)* Ex. English, American History, Government, Psychology, Economics, Music, etc.	CC – Core curriculum (3 cr.)* Ex. English, American History, Government, Psychology, Economics, Music, etc.

*AP/IB/Dual Credits taken into consideration when providing suggested courses.



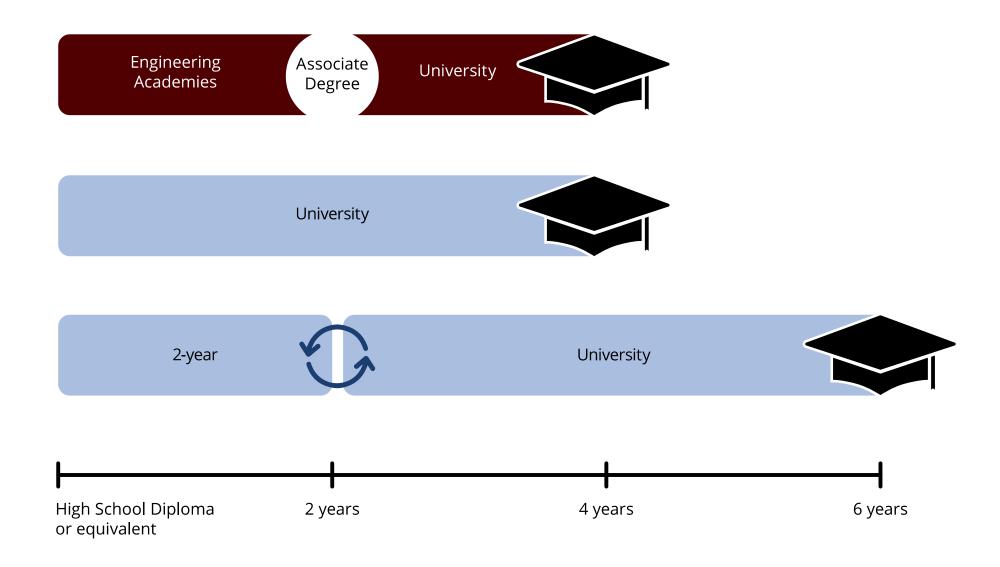
Student Experiences



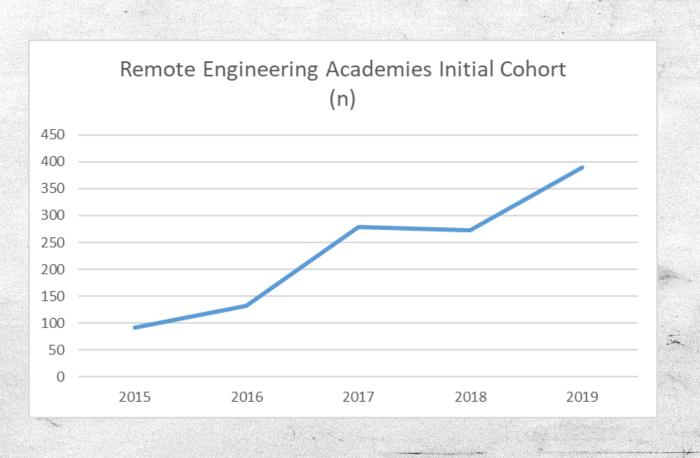
Global Programs ● Career Fair ● Aggie Football Game & Tailgate ● Aggies Invent ● Internships

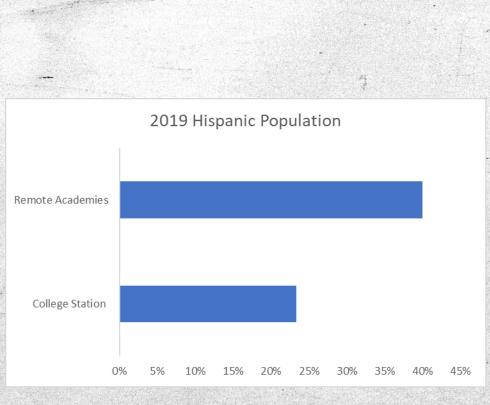


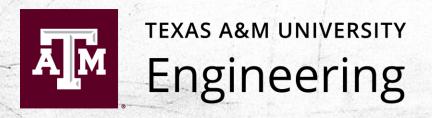
Time to Degree



Initial Cohort Enrollment







THANK YOU!



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