Educational Session

Texas A&M Engineering Academies: An Innovative Education Pathway to an Engineering Degree

Diversity and Inclusion, Partnerships and Collaboration

Unlike traditional transfer programs, students admitted into an Academy are admitted to Texas A&M University and begin earning Texas A&M University credit from semester one. Students enroll in math, science, and core curriculum courses through one of the partner colleges and have the unique opportunity to enroll in Texas A&M University engineering courses taught by Texas A&M University faculty face-to-face on the partner community college campus.

David De Sousa, Associate Director, Engineering Academies
Edwin Bassett, Director, Engineering Academies

Texas A&M University
TEXAS A&M ENGINEERING ACADEMIES:

An Innovative Education Pathway to an Engineering Degree
Top of the Pack

Number one public university in Texas for research expenditures – National Science Foundation

Only public Texas university to be named a “best buy” – Fiske Guide to Colleges

Top 4% of world university rankings – Center for World University Rankings

Best college town in Texas – Travel Pulse

One of the top public universities in the nation- Niche.com
RANKED IN THE TOP 10

3rd in the nation in research expenditures

Future Aggie Engineers
Our Current Rankings

According to the Top 2021 Public Undergraduate Programs

#7 College of Engineering
#1 Petroleum Engineering
#2 Biological & Agricultural Engineering
#7 Aerospace Engineering
#8 Civil Engineering
#8 Industrial & Systems Engineering
#8 Mechanical Engineering
#9 Electrical Engineering
#10 Chemical Engineering
#14 Computer Engineering

Multiple Pathways

Incoming Freshman
Transfer Applicant
Engineering Academies
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**
Texas A&M Engineering Academies

- 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 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
Engineering Academies Application Dates

Priority Dates:
• December 1 – April 1

General Deadline:
• Applications due June 30
Enrollment and Application Process

1. Apply to community college if not already enrolled
2. Community college pre-qualifies interested students based on calculus readiness
3. Pre-qualified students submit an Engineering Academy application to Texas A&M
4. Earn Texas A&M Engineering credit while co-enrolled
5. Transition to Texas A&M University
6. Graduate from Texas A&M University
## Remote Engineering Academies Enrollment

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Texas A&amp;M – ENGR 102 (2 cr.)</td>
<td>Texas A&amp;M – ENGR 216 (2 cr.)</td>
</tr>
<tr>
<td>CC – Science course (4 cr.)</td>
<td>CC – Science course (4 cr.)</td>
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<td>CC – Math course (4 cr.)</td>
<td>CC – Math course (4 cr.)</td>
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<tr>
<td>CC – Core curriculum (3 cr.)*</td>
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*AP/IB/Dual Credits taken into consideration when providing suggested courses.
## 22 Majors

<table>
<thead>
<tr>
<th>Aerospace</th>
<th>Architectural</th>
<th>Biological &amp; Agricultural</th>
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<tbody>
<tr>
<td>Biomedical</td>
<td>Chemical</td>
<td>Civil</td>
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<td>Computing</td>
<td>Environmental</td>
<td>Industrial</td>
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<td>Electronic Systems Engineering Tech</td>
<td>Manufacturing &amp; Mechanical Engineering Tech</td>
<td>Materials Science &amp; Engineering</td>
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<tr>
<td>Interdisciplinary</td>
<td>Multidisciplinary Engineering Tech</td>
<td>Nuclear</td>
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<td>Petroleum</td>
<td>Ocean</td>
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Broaden Your Horizons!

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

- Engineering Academies
- Associate Degree
- University

- University

- 2-year

High School Diploma or equivalent 2 years 4 years 6 years
Texas A&M Engineering Academies at a Glance

81% RETENTION RATE
FROM 2019-2020

21% FEMALE

41% OF NEW STUDENTS ENROLLED IN 2019 ARE FIRST GENERATION COLLEGE STUDENTS

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

- 6% BLACK
- 40% HISPANIC
- 43% WHITE
- 11% OTHER
How to Apply:

1. First secure admission to ACC.
2. Receive math-level pre-qualification from ACC - After applying to ACC, students interested in the Academy are required to fill out a pre-qualification form. Applications for the 2021 fall class cohort will be accepted December 2020 through June 2021.
3. Apply to Texas A&M University - A special A&M Academy application link will be emailed directly to qualified applicants after prospective students are successfully math-level pre-qualified in Step 2 above. Note: In previous years, new ACC students had to take the SAT or ACT prior to application to Texas A&M University. *Given the continued restrictions on in-person testing opportunities and in light of recent announcements regarding halted plans for virtual testing, Texas A&M University will not require test scores from students applying for the Fall 2021 semester. Submission of tests scores will not create any unfair advantage or disadvantage for those students who provide them.
Future Aggie Engineers
Contact us!

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Questions?

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