College of Engineering

Largest college at Texas A&M

More than 18,000 students in 14 departments

Nationally Recognized Programs

Undergraduate Program

Departments Ranked in Top 10

Research Expenditures

Sources

Student enrollment includes undergraduate and graduate students from TAMU College Station, Galveston and Qatar campuses, and Engineering Academies.

2017 U.S. News & World Report Rankings of Public Universities

American Society for Engineering Education (2016 report)

@tamuengineering | #TAMUengr
engineering.tamu.edu/easa
18 Majors

Aerospace Engineering  Biological & Agricultural Engineering  Biomedical Engineering  Chemical Engineering  Civil Engineering  Computer Engineering

Computer Science  Electrical Engineering  Electronic Systems Engineering Technology  Industrial Distribution  Industrial Engineering  Interdisciplinary Engineering

Manufacturing & Mechanical Engineering Technology  Mechanical Engineering  Multidisciplinary Engineering  Nuclear Engineering  Ocean Engineering  Petroleum Engineering
17
Minors

- Cybersecurity
- Engineering Project Management
- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Computer Science
- Game Design and Development
- Electrical Engineering
- Embedded Systems Integration
- Industrial Engineering

- Materials Science and Engineering
- Analysis, Design and Management of Energy Conversion Systems
- Control of Mechanical Systems
- Design and Simulation of Mechanical Systems
- Nuclear Engineering
- Radiological Health Engineering
- Petroleum Engineering
Program Highlights

Engineering Honors  Zachry Leadership Program  EnMed

Interdisciplinary Engineering  Engineering Entrepreneurship Program  ENGR[X]
ENGR[x]

What's your "X" factor?

another.
passion (pash'ən)
emotion.
ATM | ENGINEERING | making a difference
entrepreneurship
X-factor
LEADERSHIP

ENGR\[x\]

Research experience
internships
global experiences

service
certificates
co-op
volunteer
honors program

experiential learning
First-Generation Engineering Students Program (FGEn)

• More than 20 percent engineering undergraduate students are first-generation.
• FGEn seeks to enhance students’ educational and social experiences on campus.
• FGEn mentors will help students leverage resources, provide a sense of community, and help with their goals.
Bring Your Own Device

• **Required** for new undergraduate students

• **Enhances** technology-mediated instruction

• Cost of device can be included with the cost of attendance for financial aid

• 2017-2018 recommended systems:
  • HP Zbook
  • Lenovo ThinkPad P50
  • Dell 15” New Precision 5520
  • Apple MacBook Pro 13”

engineering.tamu.edu/byod
Bringing the Real World into the Classroom
The Aggie Engineering Experience

Knowledge Application
- Career Fair
- Certificates
- Engineering Innovation Center
- Engineering Project Showcase
- Internships
- Student Design Competitions

Undergraduate Research
- AggiE_Challenge
- Engineering Honors
- Undergraduate Summer Research Grants

Global Communities
- Engineering Student Organizations
- International Programs
Engineering Innovation Center Programs

• Design Competitions
• Aggies Invent
• Pop-Up Classes
• Engineering Project Showcase
The Aggie Engineering Experience

Knowledge Application
• Career Fair
• Certificates
• Engineering Innovation Center
• Engineering Project Showcase
• Internships
• Student Design Competitions

Undergraduate Research
• AggiE_Challenge
• Engineering Honors
• Undergraduate Summer Research Grants

Global Communities
• Engineering Student Organization: EWB
• International Programs

@tamuengineering | #TAMUengr
engineering.tamu.edu/easa
Student Organizations

11 College-wide Student Organizations

- Aggies Communicate Through Engineering
- Engineers Without Borders
- Engineers Serving the Community
- National Society of Black Engineers
- Student Engineers’ Council
- Society for Asian Scientists and Engineers
- Society of Hispanic Professional Engineers
- Society of Mexican American Engineers & Scientists
- Society of Women Engineers
- Tau Beta Pi (Engineering Honor Society)
- Theta Tau (Co-ed Professional Engineering Fraternity)

Departmental Organizations

- More than 52 organizations in the departments
- All departments have an honor society and at least one professional society
Academic Advising

• **Know** your advisor
• Advisors provide **recommendations** and inform you of **rules** and **requirements**
• **Questions** during the semester? Contact your **advisor**!
Resources

Howdy
ENGR 111/112 Help Sessions
Texas A&M Student Rules
Success Program
Scholarships

Supplemental Instruction
Academic Success Center
Engineering Living Learning Community
Undergraduate Catalog
Course Schedule

Peer Tutoring
Disability Services
Career Center

Engineering Academic and Student Affairs

engineering.tamu.edu/easa
Strategies for Success

• Anticipate 3 hours of study per week for each credit hour – lost time cannot be regained

16 credits X 3 hrs. study = 48 hours of study PER WEEK

• Study in groups

• Ask for help, early
Guiding Principles

• Transform the educational experience
• Increase accessibility to engineering education
• Deliver affordable engineering education
Teaching of 25 by 25

100% Classes less than 100 students

54% Undergraduate Classes less than 50 students

94% Graduate level Classes less than 50 students
Professors of Practice

Julie Ingram
Professor of Practice
Vice President, Riser and Flowline Systems at Subsea Engineering Technologies
President, Ingram Subsea Services

Greg Chamitoff
Professor of Practice

@tamuengineering | #TAMUengr engineering.tamu.edu/easa
Zachry Engineering Education Complex

A high tech, active learning environment for undergraduate engineering education.
Informal Learning Spaces
Formal Learning Spaces
Green Roof/Terrace
Future Growth

- New CS Undergraduate Students (9%)
- Online Masters (9%)
- Remote Sites (29%)
- Retention (50%)
- New CS Graduate Students (3%)
What 25 by 25 means for you

- Enriched engineering education
- More engagement with industry
- New hands-on learning
- ENGR\[^x\] opportunities
- Better prepared for employers
- Expanded Aggie engineering network
- State-of-the-art facilities
- Multidisciplinary research
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Student Agenda</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15 a.m. – 9:30 a.m.</td>
<td>Travel time to department presentation</td>
</tr>
<tr>
<td>9:45 a.m.</td>
<td>Department Presentation</td>
</tr>
<tr>
<td>2:00 a.m.</td>
<td>Course Registration</td>
</tr>
</tbody>
</table>
Thanks and Gig 'em!

Questions?

Engineering Academic and Student Affairs
Engineering Activities Building B
979.845.7200
Email: easa@tamu.edu

engineering.tamu.edu/easa