Women in Engineering Program

Presented by Shawna Fletcher, MS BME Director

New Faculty Orientation
September 9, 2016
Population

Women are….. Everywhere - 50.8% of US Population*

Where women aren’t ….

• represent 19.9% of all engineering undergraduate students in US

Engineering

• women earn 18.7% of undergraduate degrees awarded in engineering***

• Hispanic/African American women combined are 3% UG

• 22.4% engineering PhD degrees awarded***

Workforce

• up to 11% of practicing engineers?

Sources: *U.S. Census Bureau: State and County QuickFacts. Last Revised: Thursday, 14-Mar-2013
***Yoder, B., American Society for Engineering Education, Engineering by the Numbers Report, 2014
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COE UG Women by Ethnicity

- Fall 2010: 18.8%
- Fall 2011: 18.6%
- Fall 2012: 19.1%
- Fall 2013: 19.7%
- Fall 2014: 20.7%
- Fall 2015: 21.9%

Source: DARS Data Dashboard, Certified Data 2015, College Station Campus only, accountability.tamu.edu
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% Masters Women vs. National %

Sources: *DARS Data Dashboard, Certified Data 2015, College Station Campus only, accountability.tamu.edu
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- At Texas A&M: 1 in 5 PhD students are women

% PhD Women vs. National %

Sources: *DARS Data Dashboard, Certified Data 2015, College Station Campus only, accountability.tamu.edu
**Yoder, B., American Society for Engineering Education, Engineering by the Numbers Report, 2014
% Women UG in Engineering Majors @ TAMU

Source: DARS Data Dashboard, Certified Data 2015, College Station Campus only, accountability.tamu.edu
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Highlights

• Largest class of UG freshman women in country (F14 and F15)
• MEEN department 15.7% women – 2% higher national avg (FY15)
• MEEN entry to a major yield 29% women (FY15)

• NCWIT grant working with ECEN, CSCE, MEEN, ETID departments
• High % women in BMEN, CHEN, CVEN, ISEN

Goal: 25 x 25 initiative
36% women = 9,000 students
Spring 2016 – 40 events, 2384 current / admitted / prospective students affected

Fall 2016 – 45 upcoming events, get involved!

1,887 Friends
207 Followers
527 Followers

WE Tamu
@WE_TAMU
WETAMU

tx.ag/weprogram
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Retention Program Areas

Academic
Workshops / Learning Styles / Time Mgmt / Workplace Skills / EFT Scholars / ARLP / Grad School

Community Building
Connected. Network.
Student Organizations (SWE, AAUW, SWID, WIMS, MEEN Girls, etc.) / Yield Events / WE Global

Professional Development
Leadership. Employability Skills.
WE LEAD / WE Ambassadors / Faculty Focus / Industry Network / Resume and Critique / MAGNETS

Professional Practice
Technical. Confidence.
WE VEX-U / WE SAE Supermileage / WE REAF AUV / FIRST LEGO Mentors
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WE Outreach
Cypress Grove Middle School / FUNgineering

DiscoverE Girl Day

STEM Fest
Aggieland Saturday
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Professional Practice
Technical. Confidence.

Research Week
AggiE-Challenge

Project Showcase
Aggies Invent

EIC Pop-Up Classes
Startup Aggieland

Aggie Research Scholars Program and Aggie Research Leadership Program
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Women in Engineering Program
Visibility of Diverse Women

weoutreach@tamu.edu
What can WE do for you?

- Involvement and connection with students
- Pool of women for research opportunities
- WE host faculty/student events to reach students
- WE host entry to a major events
- WE Open House and Department Roundtables
- WE have information on research and best practices
- WE write GRANTS for broader impacts!
- WE Faculty Focus
- Help US to work with your department!
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