Our College of Engineering

Fall 2015
- 83.75 (89) Faculty
- 3,331/3,479 students
Undergraduate Program
Engineering Undergraduates

- CSE
- EE
- ETEC
- MEE
- MSE
- BME
- Total
- Total-Pre


- CSE: 659, 722, 820, 905, 1030
- EE: 366, 448, 566, 597, 397
- ETEC: 291, 224, 286, 284, 306
- MEE: 190, 63, 95, 88, 109
- MSE: 51, 63, 95, 88, 109
- BME: 2195, 1778, 2539, 2351, 2864
- Total: 1588, 1778, 2539, 2351, 2716
- Total-Pre: 1588, 2195, 2539, 2351, 2864
Other

• Successful ABET visit for MTSE – Preparing now for CS and IT visits
• Engineering Community in Crumley Hall continuing strong in its 3rd year
• We continue to use the Engineering Fee (EF) very successfully for peer tutors, equipment purchases (3D printers), staff salaries, and professional development of our students
• Continued with SUPER bringing in 14 undergraduates from Thailand, India, and Mexico
• We finalized our program-based foundation courses
• Reorganized the Advising Office with assignment of program per advisor (plus back-up)
• We lost Landon; we’re in the process of hiring a new recruiter. In between Kathryn is doing an amazing job filling in.
• Dr. Nandika D’Souza is the new Associate Dean for Undergraduate Studies
Graduate Program
Other

• EE PhD proposal approved by the THECB; first students enrolled
  – Right now all our Engineering programs (except BME) offer all three degrees

• The EF allows us to continue to offer support for conference travel and writing tutors
Research and Scholarship
Scholarly output per capita

- Journal papers
- Conference papers
- Total scholarly output
Policy

• Departments completed strategic plans for 2014-19
• New P&T policies almost completed
  – Three completed and evaluated by Dean
• Continuing examination of all departmental policies
  – Merit, bylaws, etc.
• Established Teaching and Research Faculty Awards
• Established Outstanding Graduating Senior Award
Faculty Additions

- Three new faculty hires
- Nine positions (BMEx1, EEx1, MTSEx1, MEEx3, CSEx3) for next year. Two of them (BME, CSE) are new.
  - Provost has a request for 6 additional faculty lines based on our BS and MS enrollments
  - Last year I said:
    - UNT is expecting much more aggressive hiring the following year
      » You may have heard this before
Construction and Renovations

- Programming for renovations of Discovery Park – completed
- $1M approved on current FY budget for renovation of 15,000 sqft for CSE
- Administration has approved spending ~$8M to renovate/create space for moving/growing MEE, moving BME into MEE space, renovating some EE space, and improving some classrooms
- Investment in CENG continues!
International Relations

- Continued SUPER
- MEE finished a 3+2 agreement with National Cheng Kung U., Taiwan
- Inst. Tecnologico de Saltillo still working with us on 3+2 degree
- Thammasat U. visited to finalize 2+2 degree in CE
- Faculty continue to teach, visit, do research overseas
- We have a robust international research visitor program
- Our international outreach will continue, but so far ROI has been small
- Looking for new ideas!
Challenges from last year

• How will our enrollments look with the new admissions criteria?
  – New undergrad enrollments dropped 5%
  – FTIC enrollments dropped 6.7%
  – Transfer enrollments grew 16%
  – Overall undergrad enrollments grew 15.5%
  – Selectivity: 24%
  – Yield: 58%

• With no immediate increase in faculty and TA resources, how do we best serve our students?
  – Small increase in TAs by the Provost (+5)
  – More sections, better use of labs and classrooms throughout the week
  – 27 adjuncts
  – No good solutions
Challenges from last year

• Eagle Express: a train to where??
  – Graduation and retention rates, engineering fee income, recruitment, 4-year graduation promise, advising, etc.
  – So far no problems and all promises kept: fee was made whole (almost)
  – Summer offerings have increased and this has helped
  – Retention rates have increased (no numbers yet)
  – Recruiting has helped

• Ever better PhD students
  – As of today no PhD applicants for F15
  – Who is recruiting? Where? How?
  – Extra $250 for talks to Universities was fully utilized
  – PhD applicant numbers good. We want to continuously improve quality
Challenges from last year

• How can we generate more income?
  – Short courses, on-line courses, certificates
  – Who will teach them?
  – First short course taught by ETEC
  – Certificate program developed by MEE
  – Still not enough entrepreneurship
  – Very positive response to UNT@Frisco from CSE and ETEC

• How can we move from a linear to an exponential research growth model?
  – In 2012-13 our faculty participated in 6 proposals with budgets greater than $1,000,000
  – In 2013-14 our faculty participated in 11 proposals with budgets greater than $1,000,000
  – Cluster hires, collaborations, use of consultants
  – Building a research culture. More of this next

• UNT budget uncertainty
  – Uncertainty removed
  – Our budget was slightly increased for FY16.
  – New positions for FY17. Asking for yet more.
  – Almost $10M in renovations
Opportunities from last year

• How will our enrollments look with the new admissions criteria?
  – Lower enrollments in 1000-level courses, better service to our students, better student quality, better retention, higher graduation rates
  – All faculty need to challenge their students even more!

• With no immediate increase in faculty and TA resources, how do we best serve our students?
  – Incentive to create blended and on-line courses
  – These will lead to short courses and certificates, leading to more income
New Opportunities

• UNT@Frisco
  – Entrepreneurial, income-generating possibilities
  – Three phases: immediate, summer, degrees-long term

• Building a culture of research
  – Goals:
    • Think research first
    • Research permeating everything we do
    • WWARD - What would a researcher do?
    • Focus on culture first; results will come
  – Strategic planning discussion among active researchers at CENG
  – Planning a half-day retreat for mid-January
Questions?