



# State of the College Fall 2015

**Costas Tsatsoulis**

*Dean*

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# Our College of Engineering



**Fall 2015**

- 83.75 (89) Faculty
- 3,331/3,479 students

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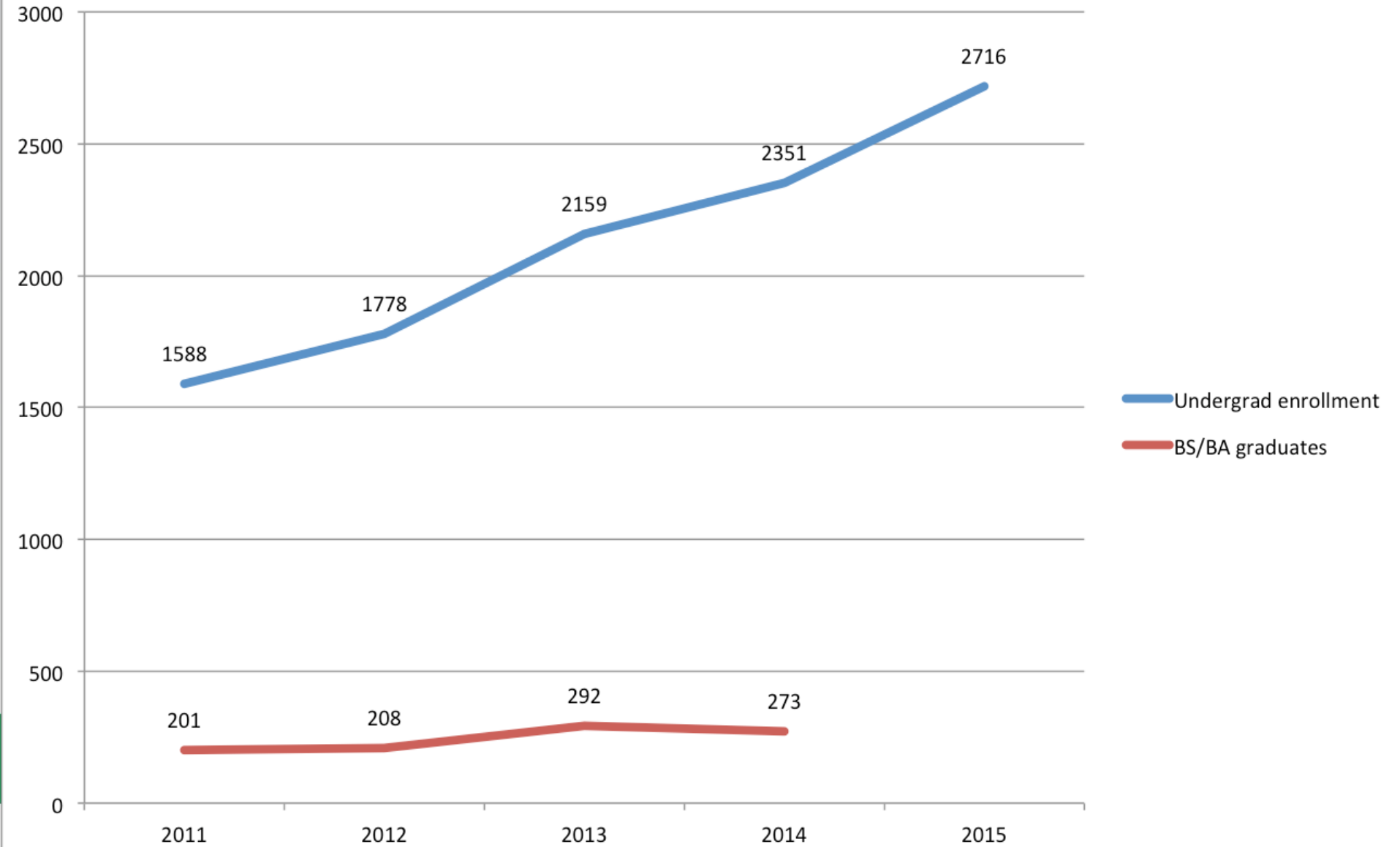
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# Undergraduate Program

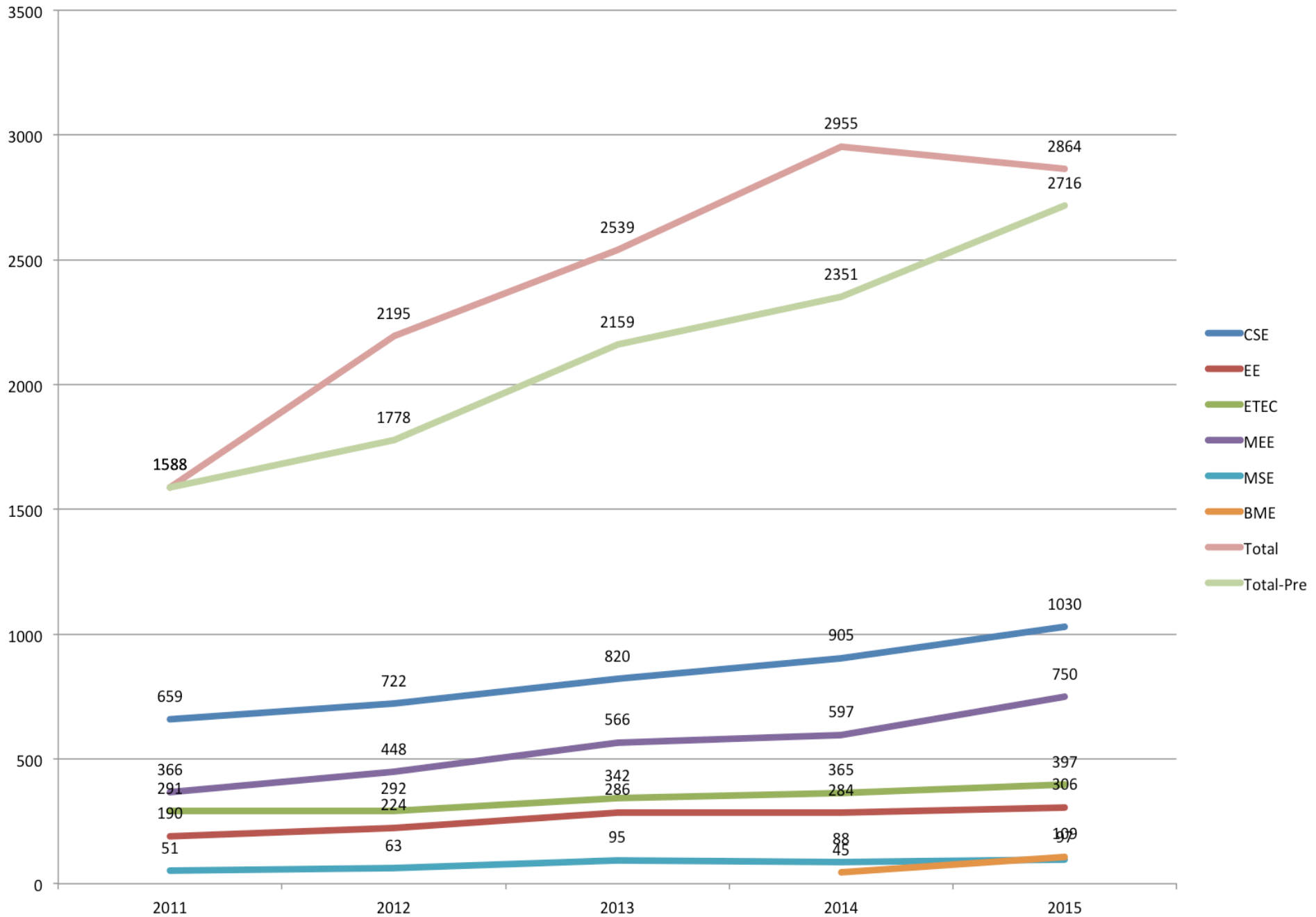
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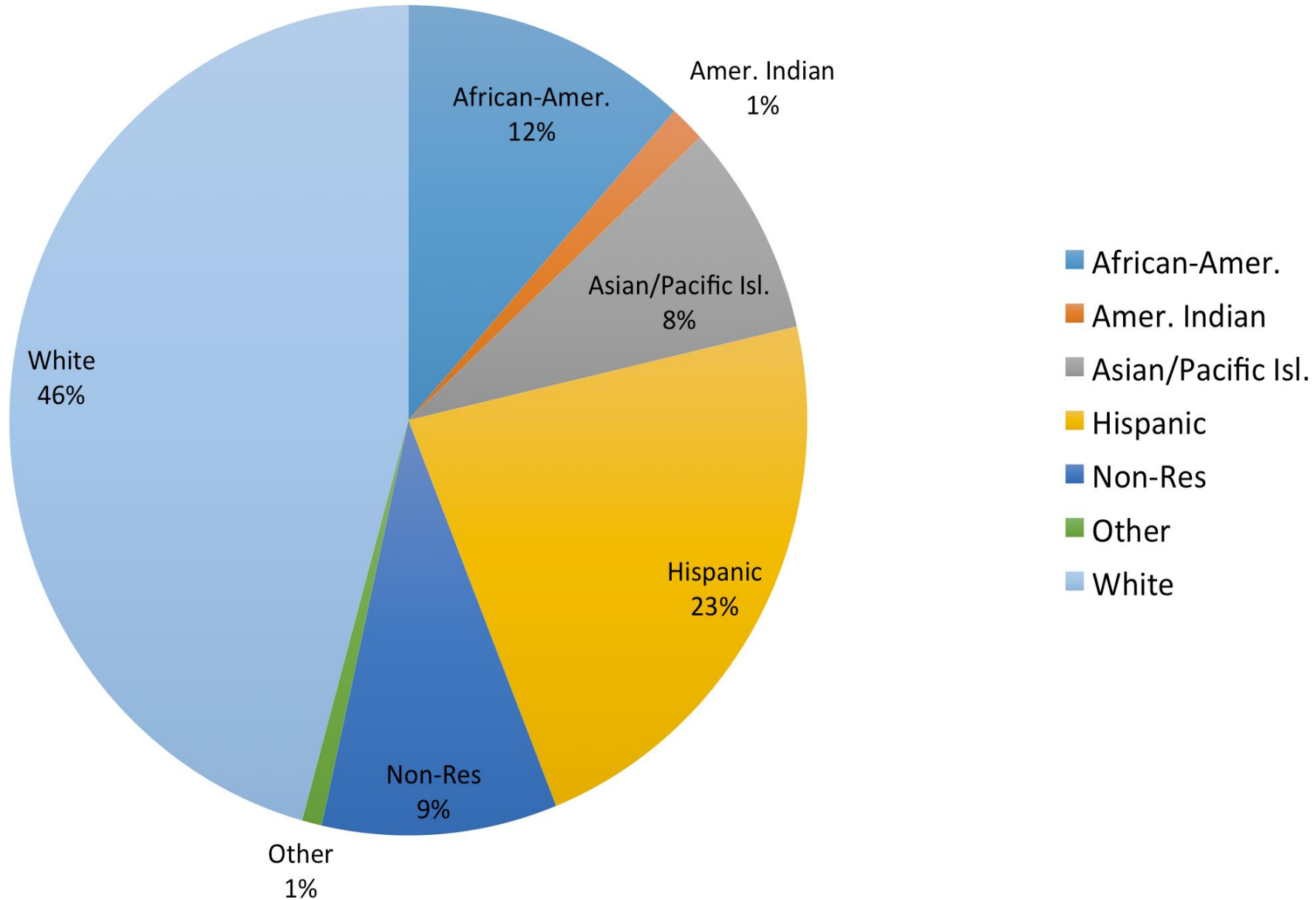
# Engineering Undergraduates



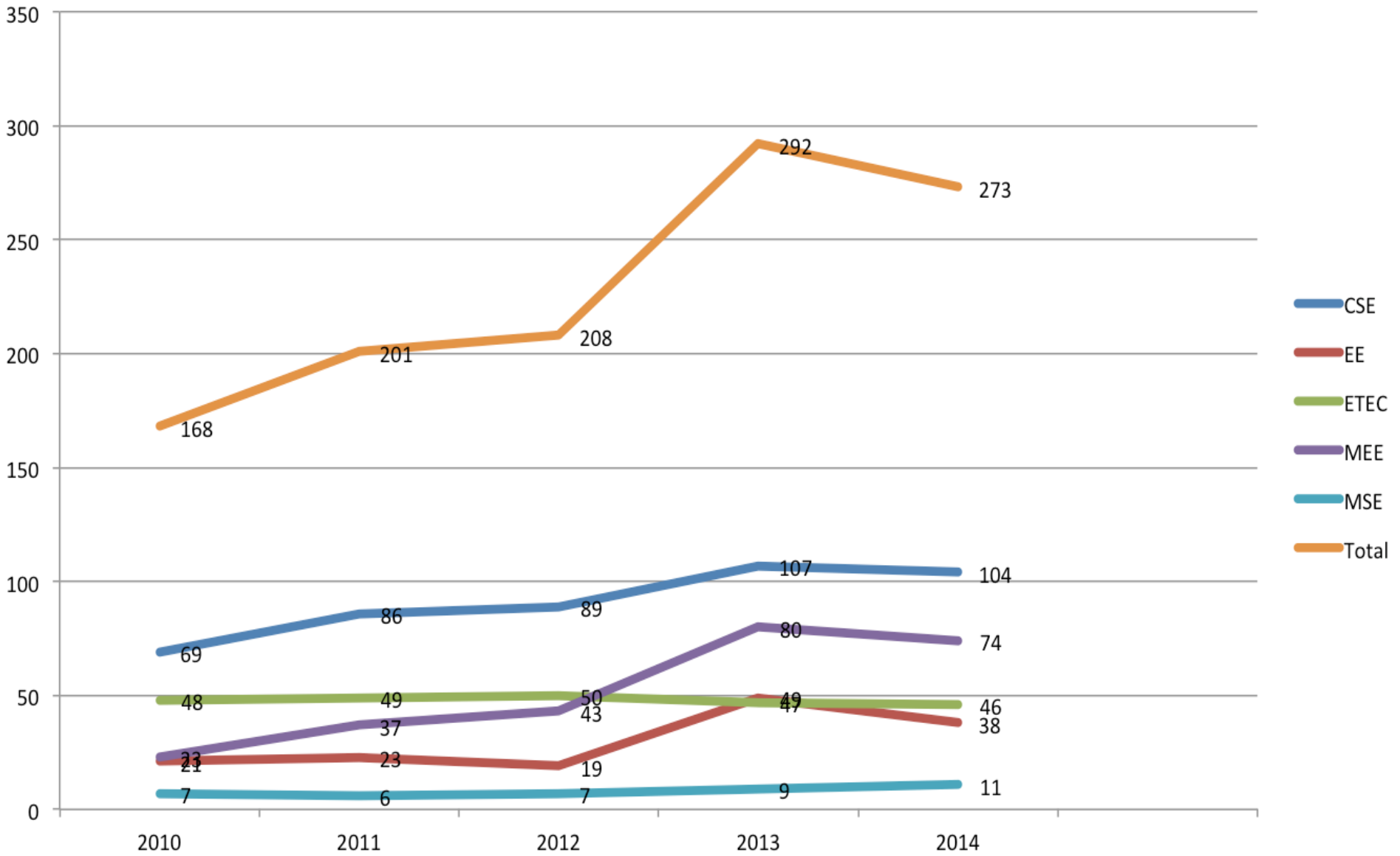
# Engineering Undergraduates



# Undergraduate Student Ethnicity



# Undergraduate Degrees



# Other

- Successful ABET visit for MTSE – Preparing now for CS and IT visits
- Engineering Community in Crumley Hall continuing strong in its 3<sup>rd</sup> 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

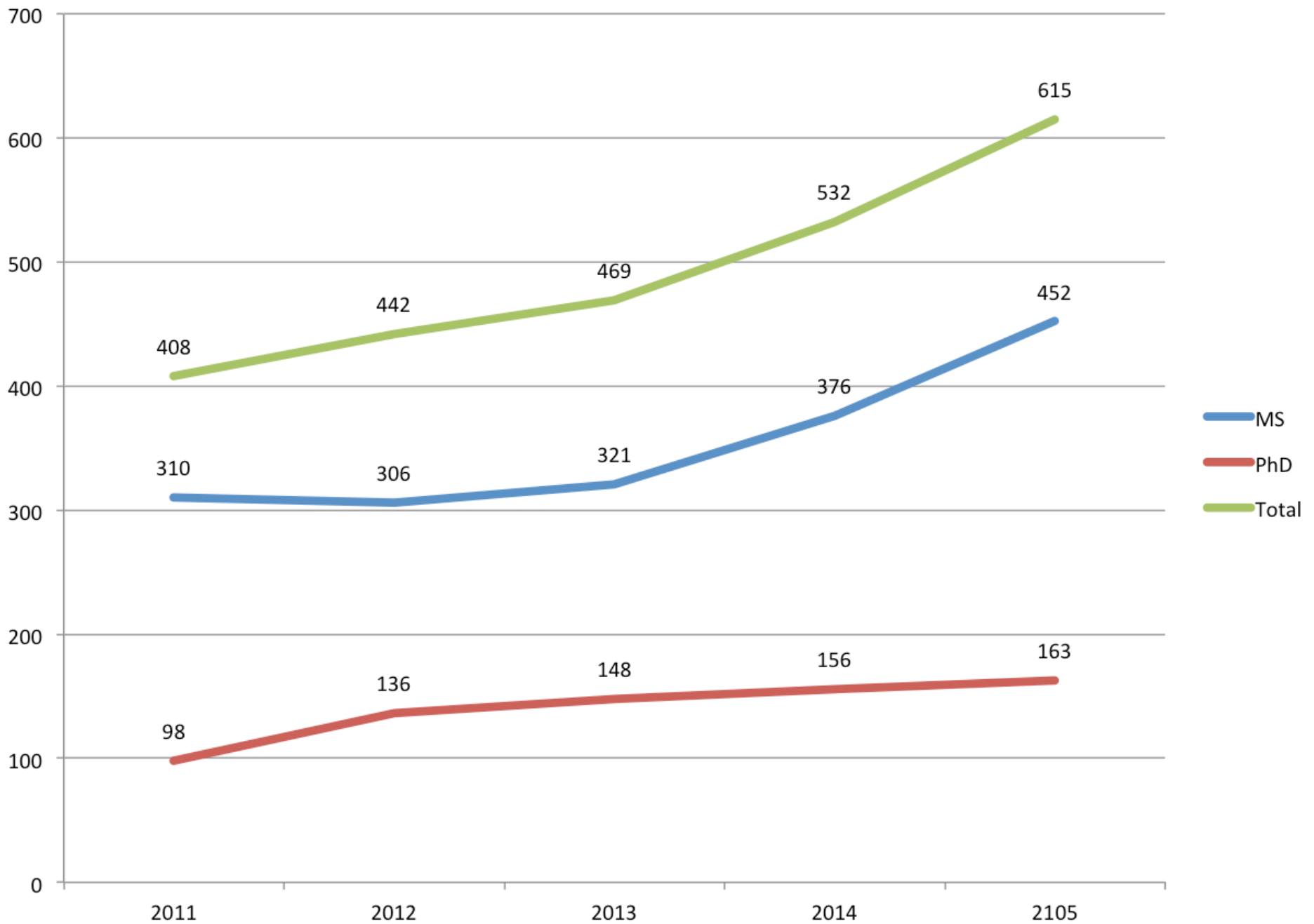


# Graduate Program

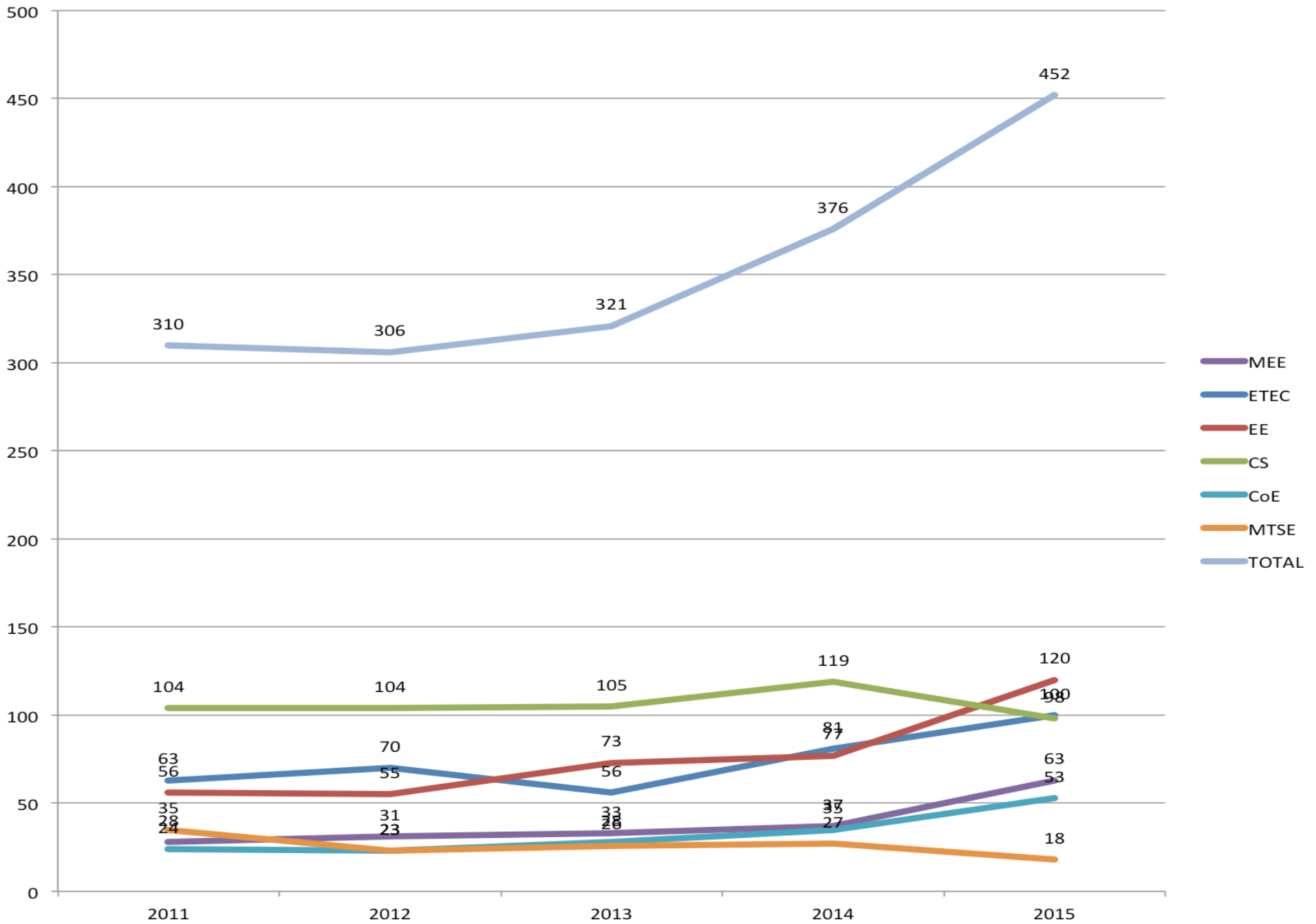
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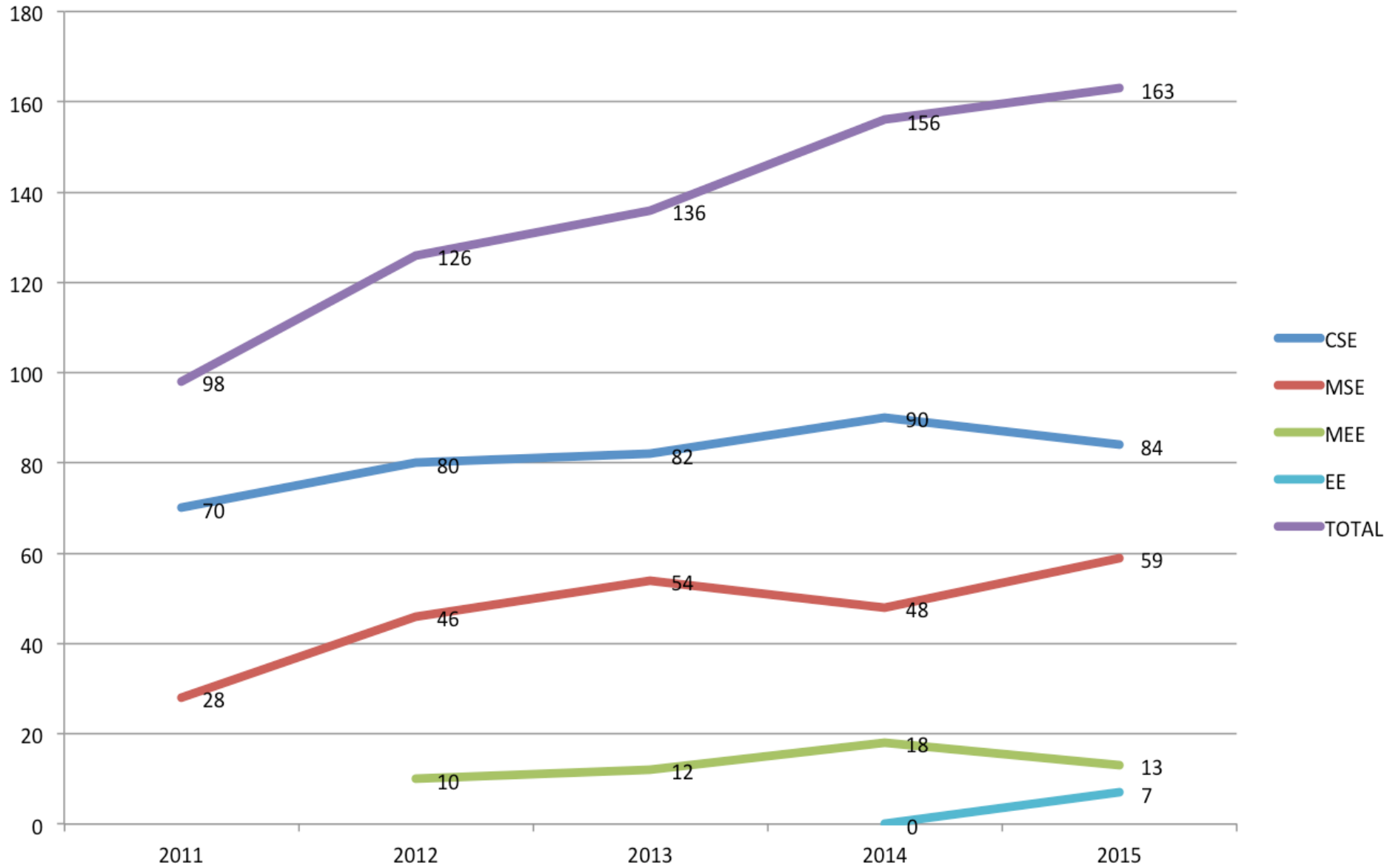
# Graduate Enrollments



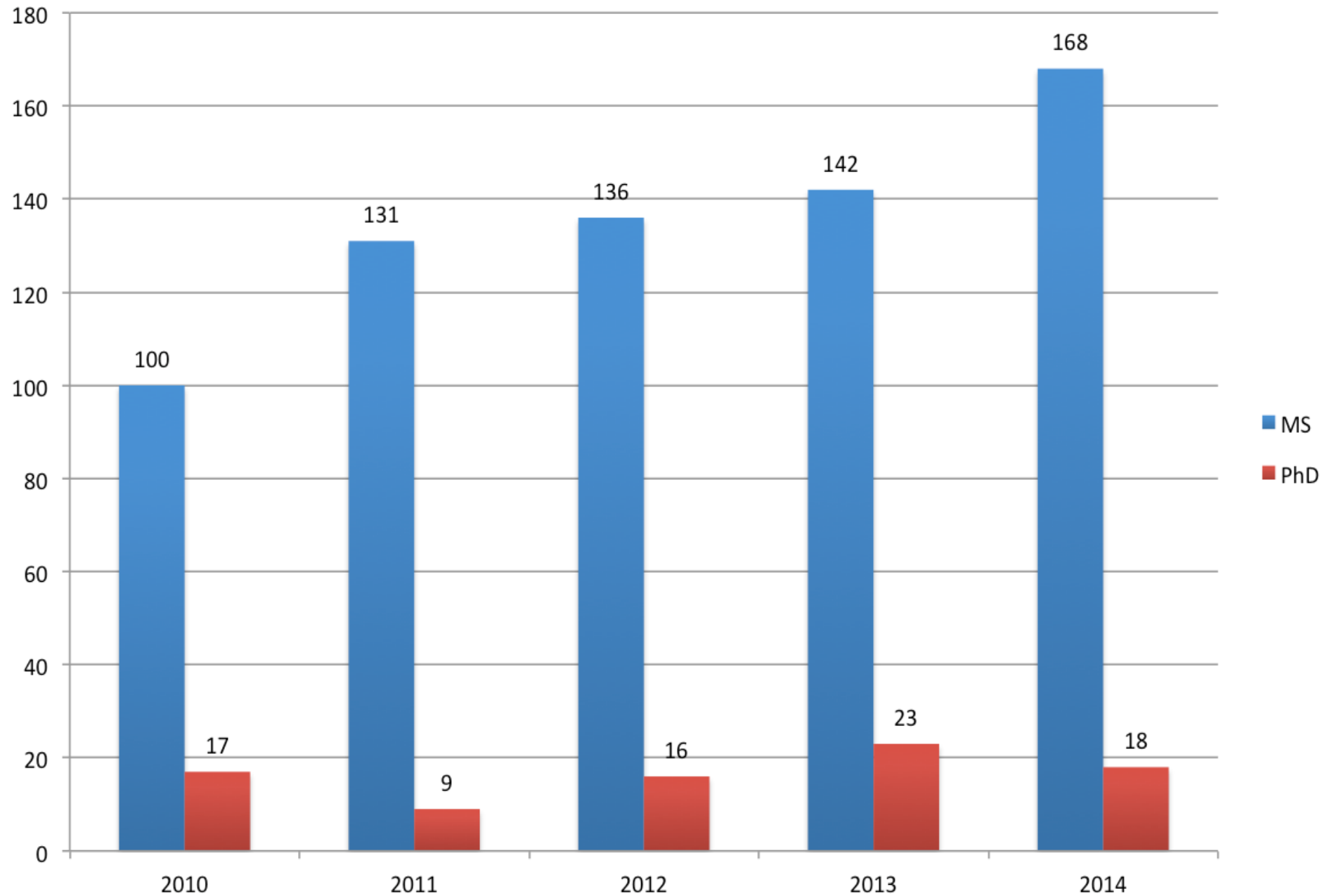
# MS Enrollments



# PhD Enrollments



# Graduate Degrees Awarded



# 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

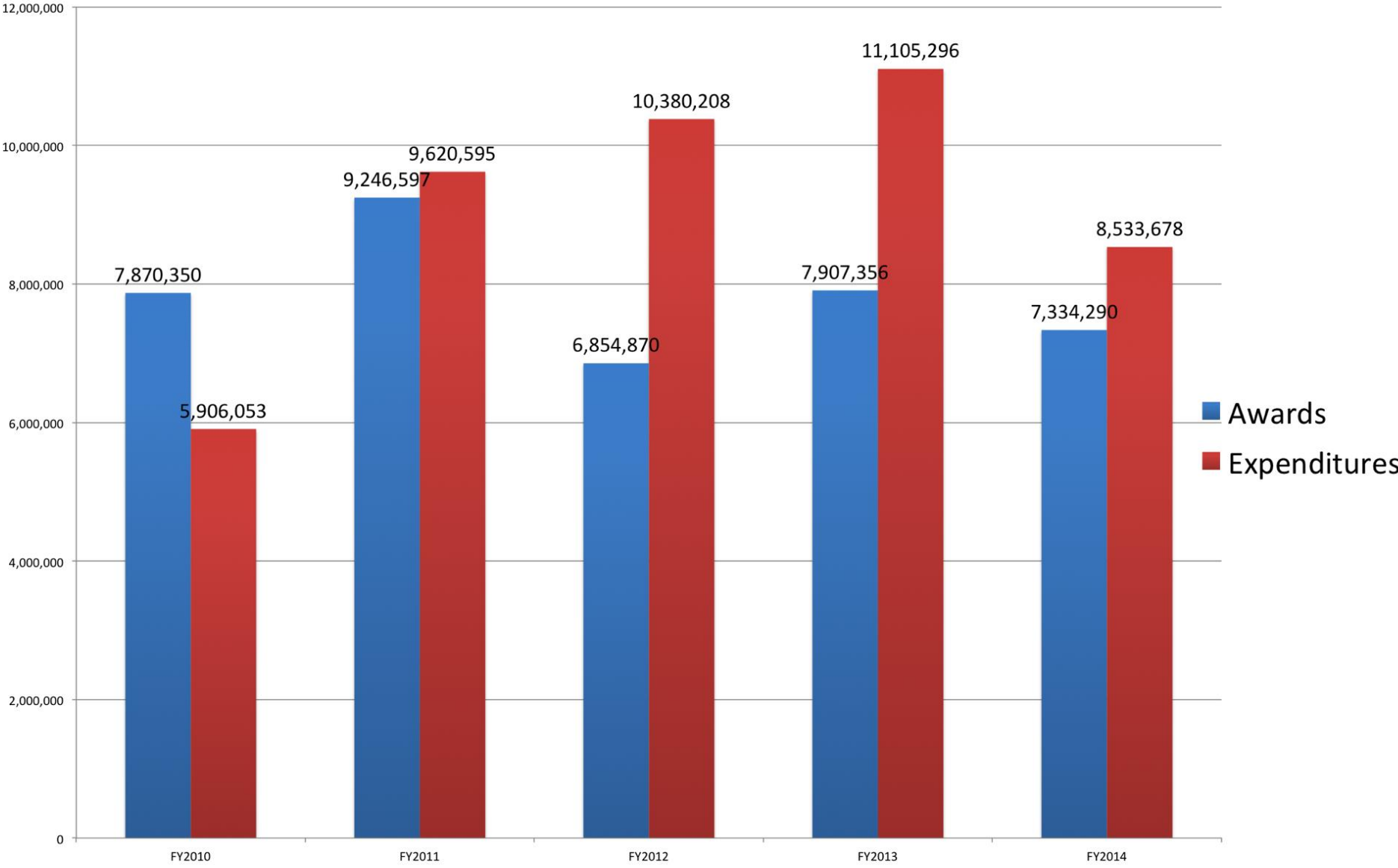


# Research and Scholarship

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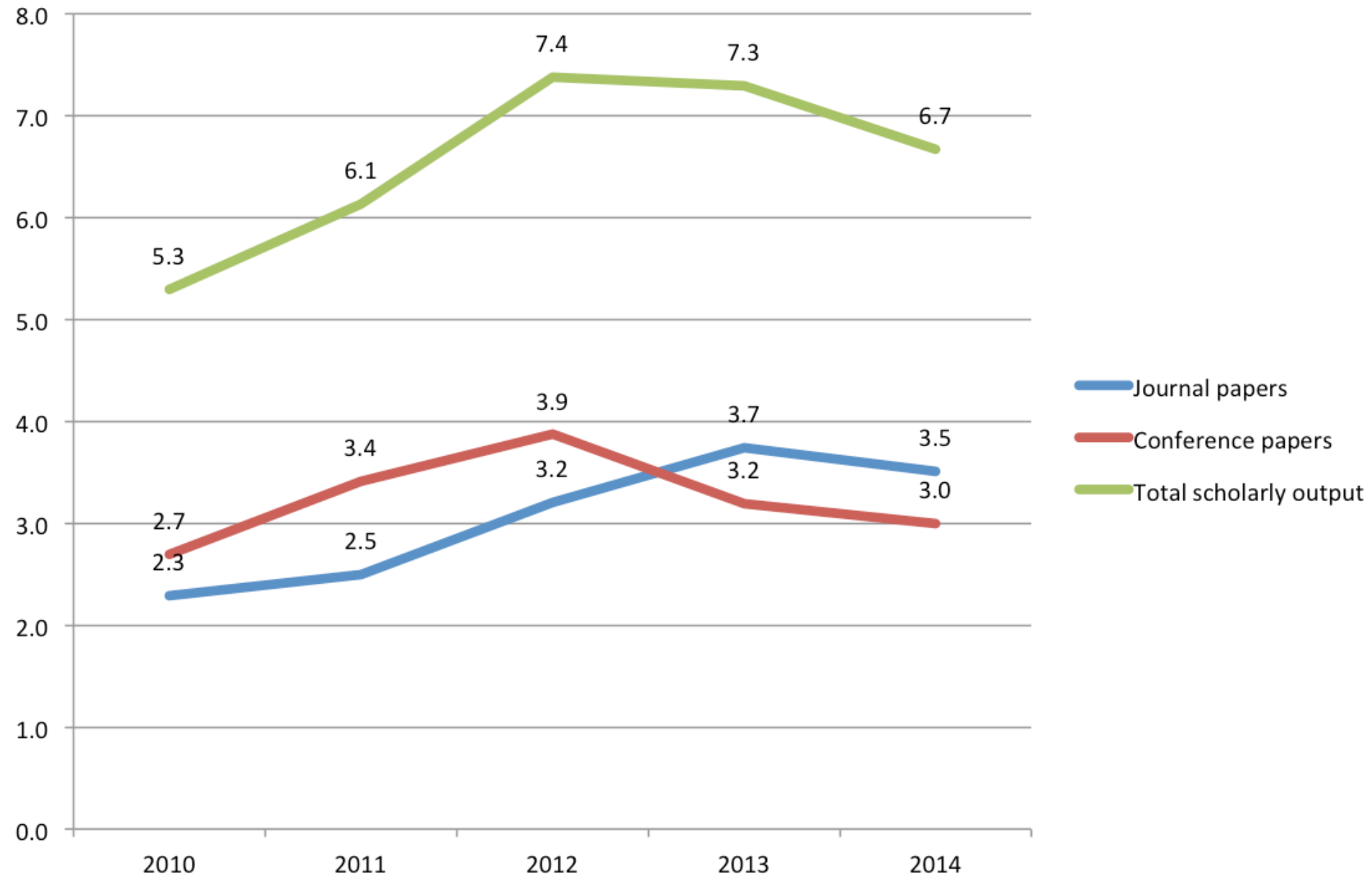
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# Funded Research Performance





# Scholarly output per capita



# Others

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# 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 (BME<sub>Ex1</sub>, EEx<sub>1</sub>, MTSE<sub>Ex1</sub>, MEE<sub>Ex3</sub>, CSE<sub>Ex3</sub>) 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?

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