



State of the College Fall 2014

Costas Tsatsoulis

Dean

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Our College of Engineering



Fall 2013

- 87.45 (94) Faculty
- 3,487 students

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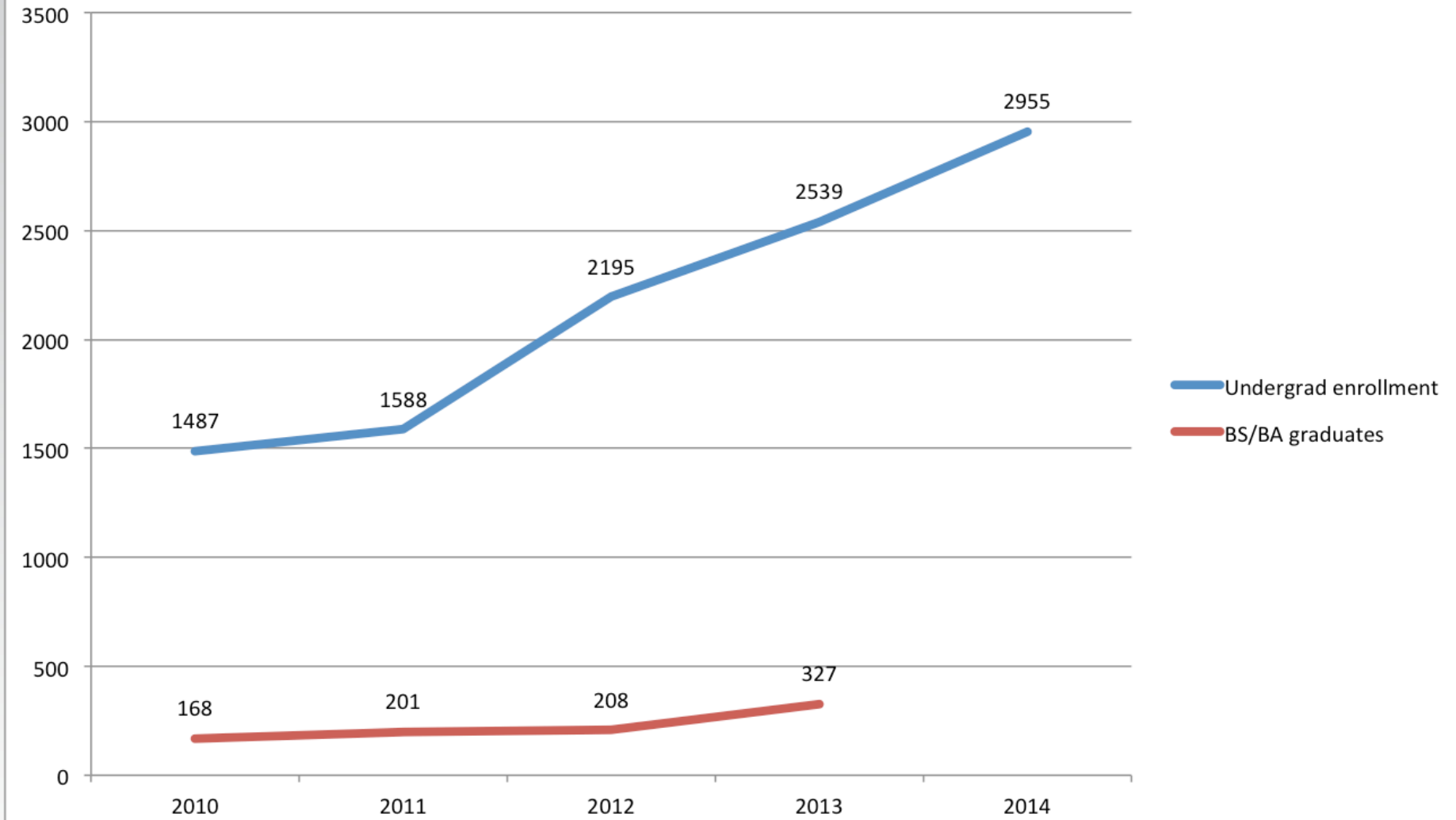
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Undergraduate Program

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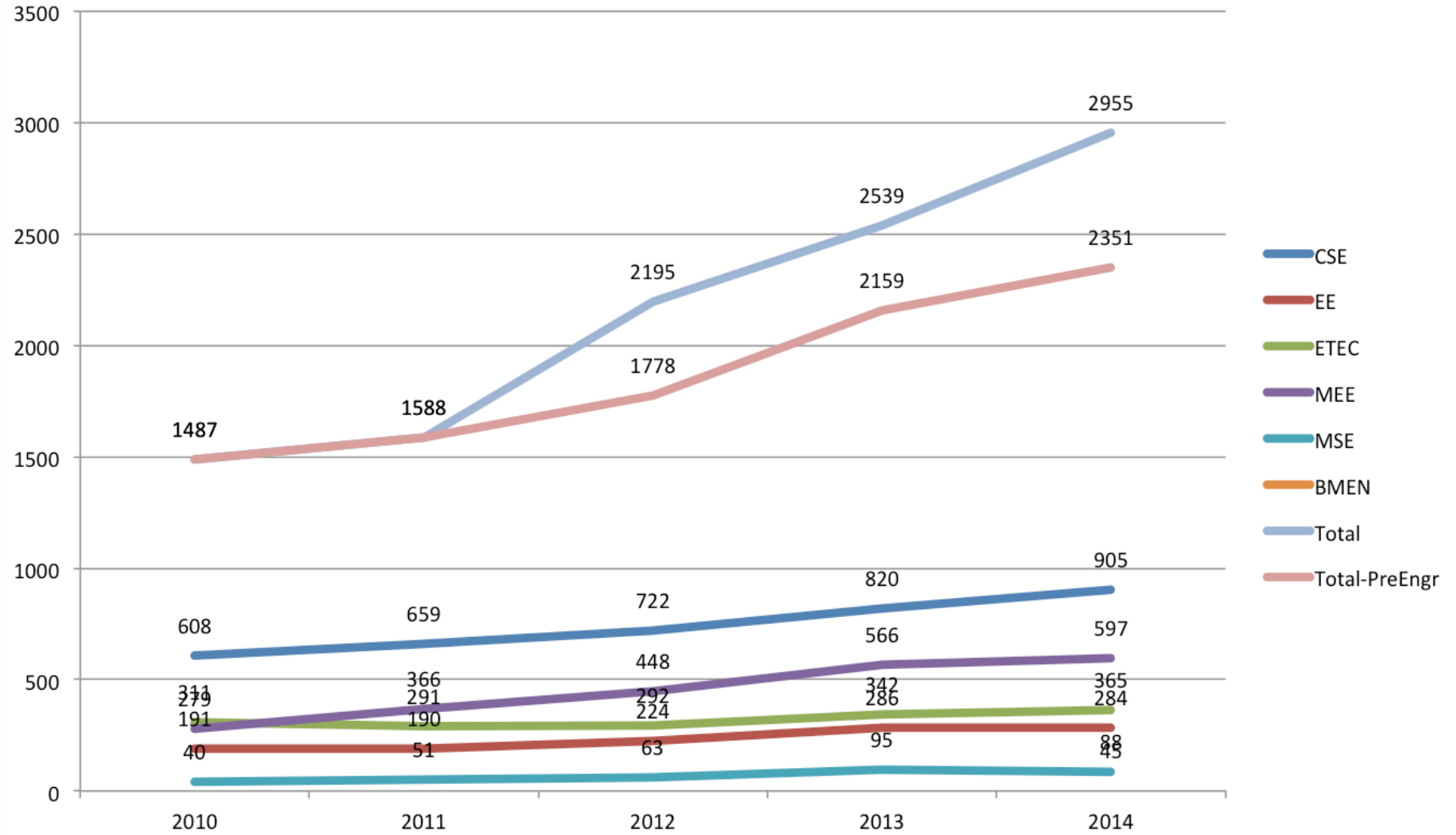
Engineering Undergraduates



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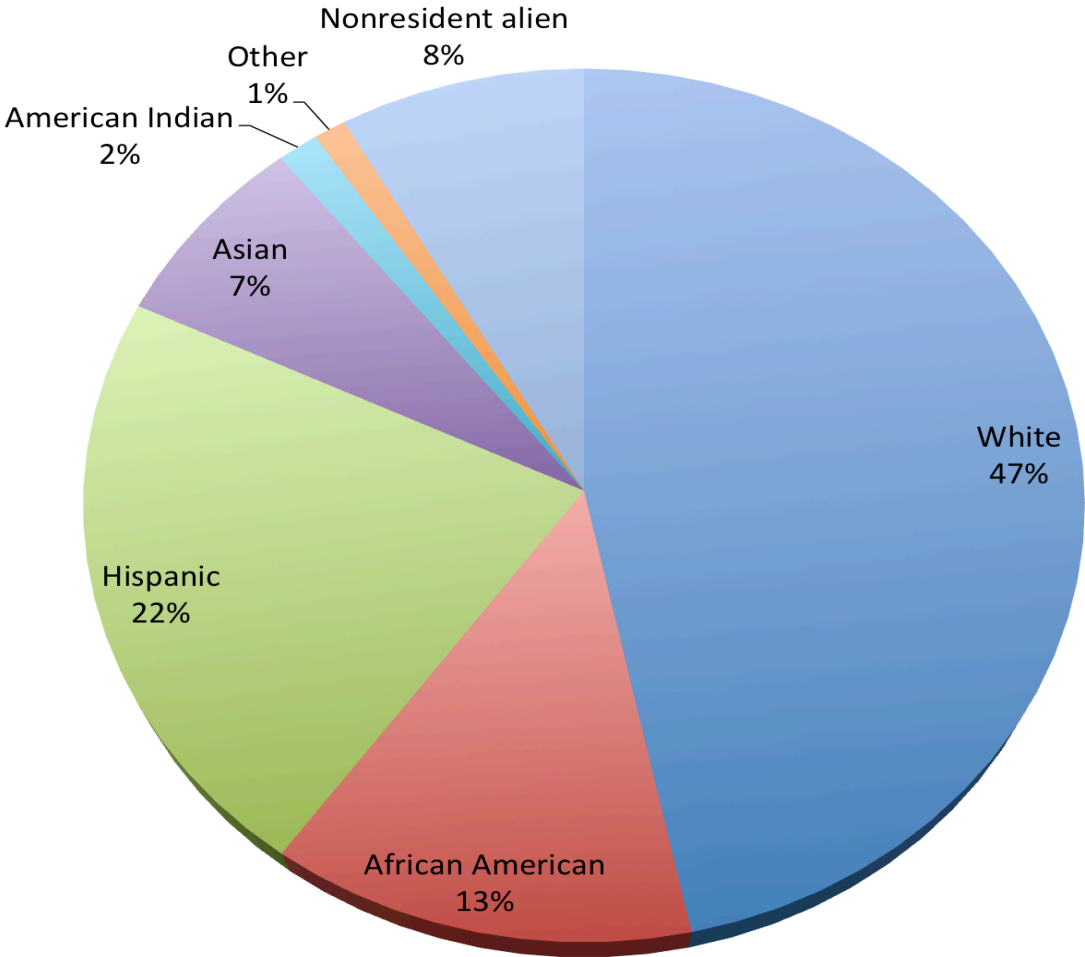
Engineering Undergraduates



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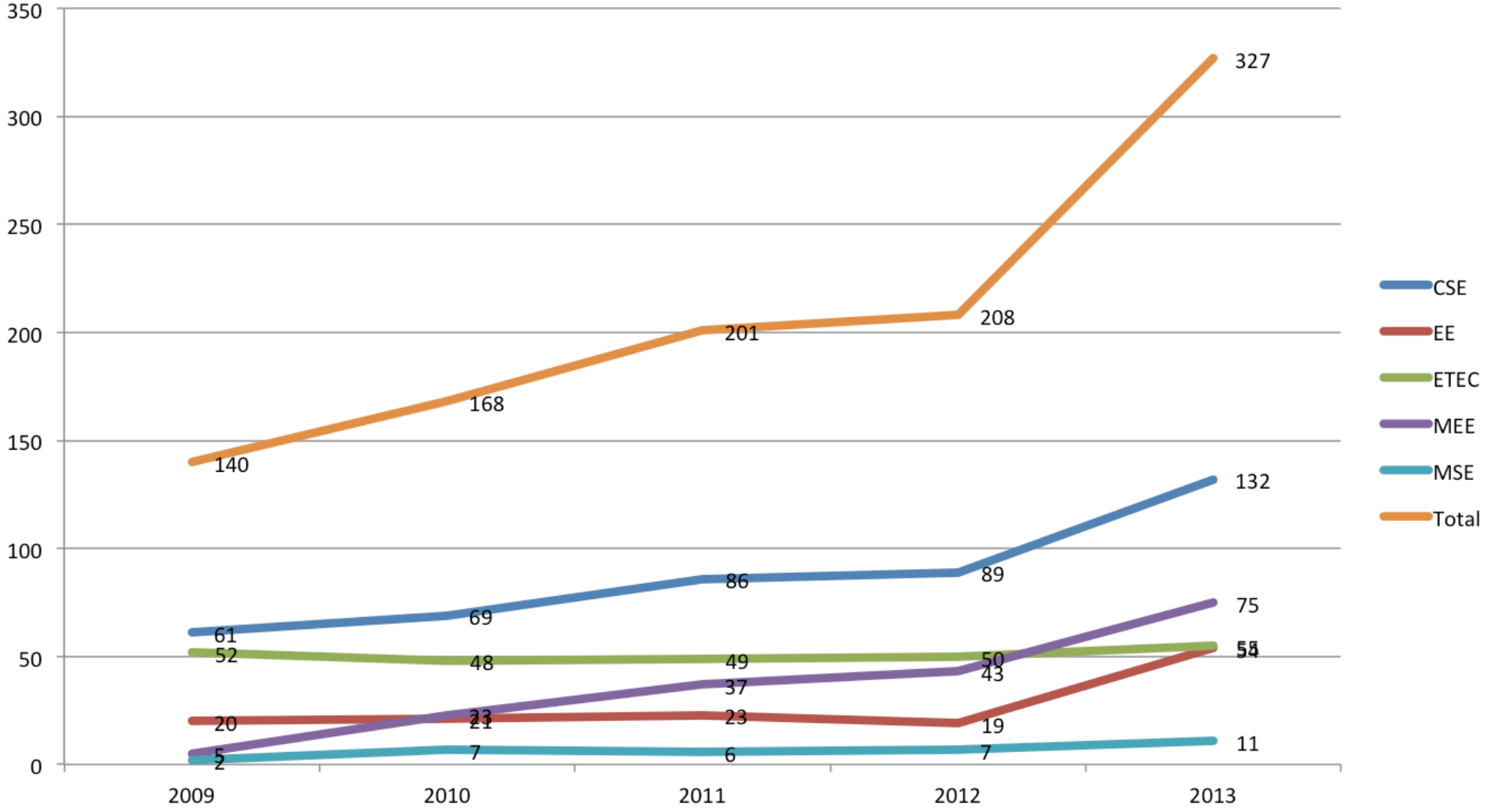
Undergraduate Student Ethnicity



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Undergraduate Degrees



Other

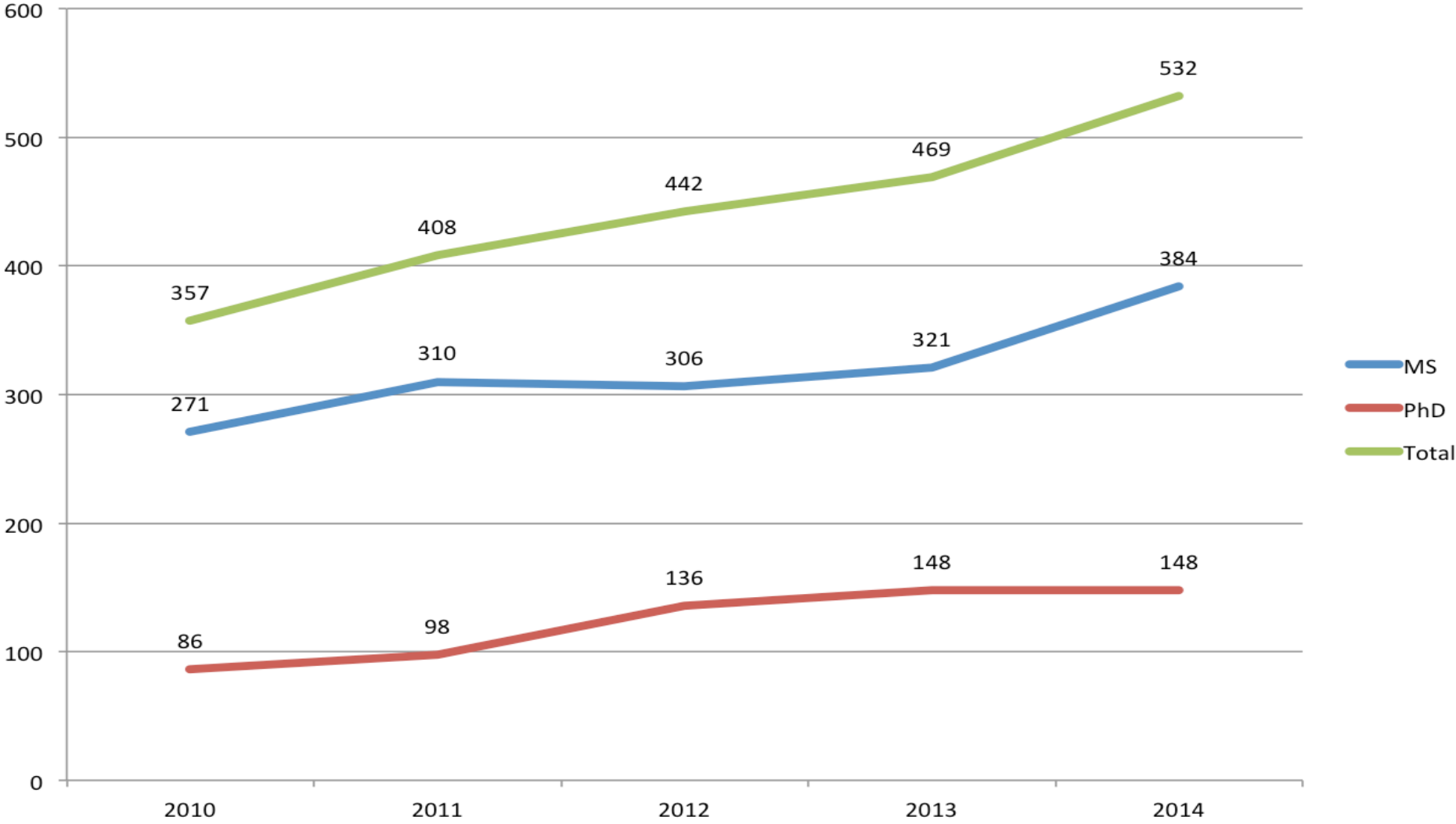
- BMEN BS and MS approved
- Successful ABET visits for EE, CE, IT, CNET, MEET, ELET
- Engineering Community in Crumley Hall now has 150 students
- We have used the Engineering Fee (EF) very successfully for scholarships, peer tutors, and professional development of our students
- Continued with SUPER bringing in 24 undergraduates from Thailand and Mexico
- We added ΠΤΣ, the MEE Honor Society; and BEMS, the BMEN Professional Society
- Departments continue to work on on-line and blended courses
- Implemented the increase of our admissions criteria
- Departments working on program-based foundation courses

Graduate Program

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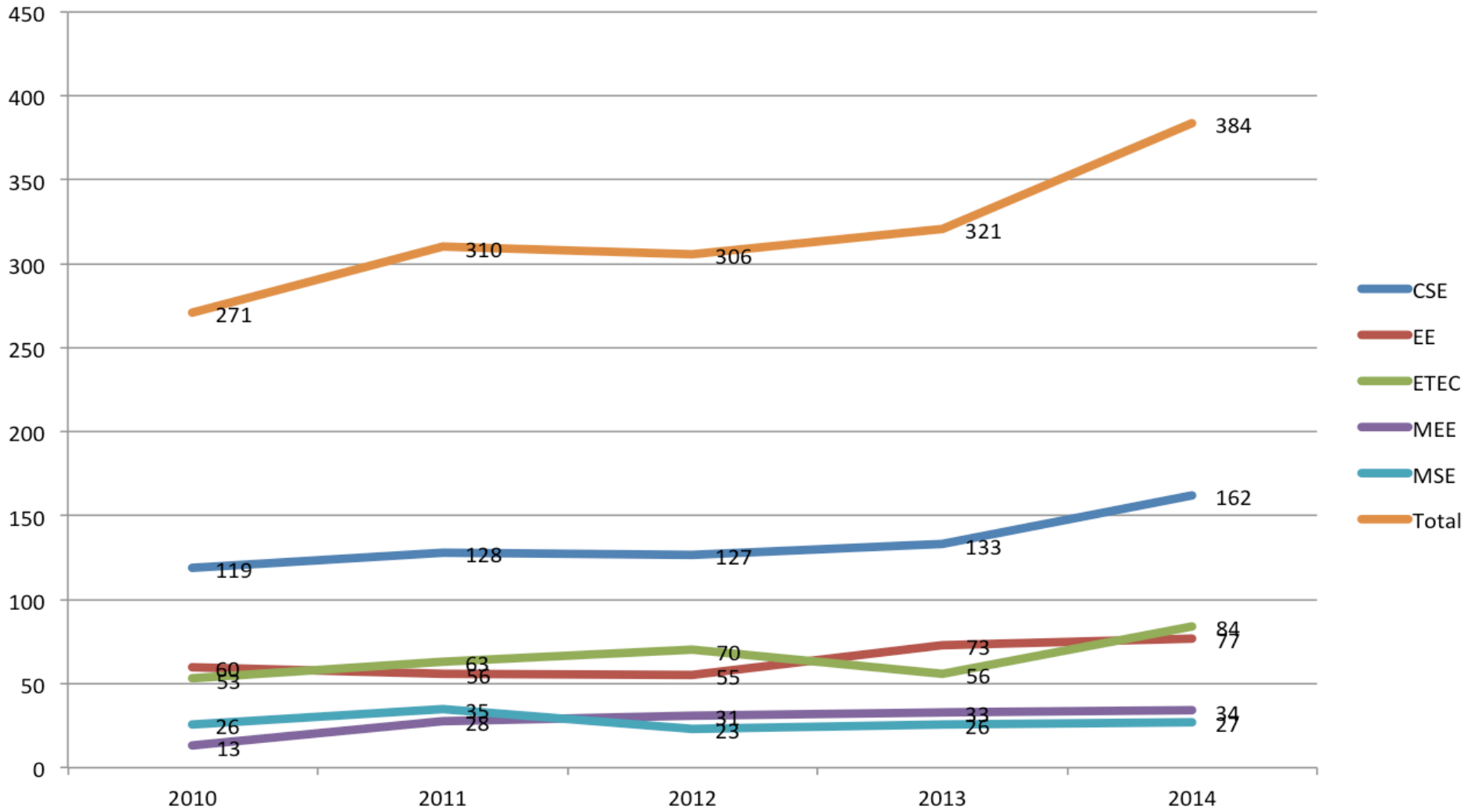
Graduate Enrollments



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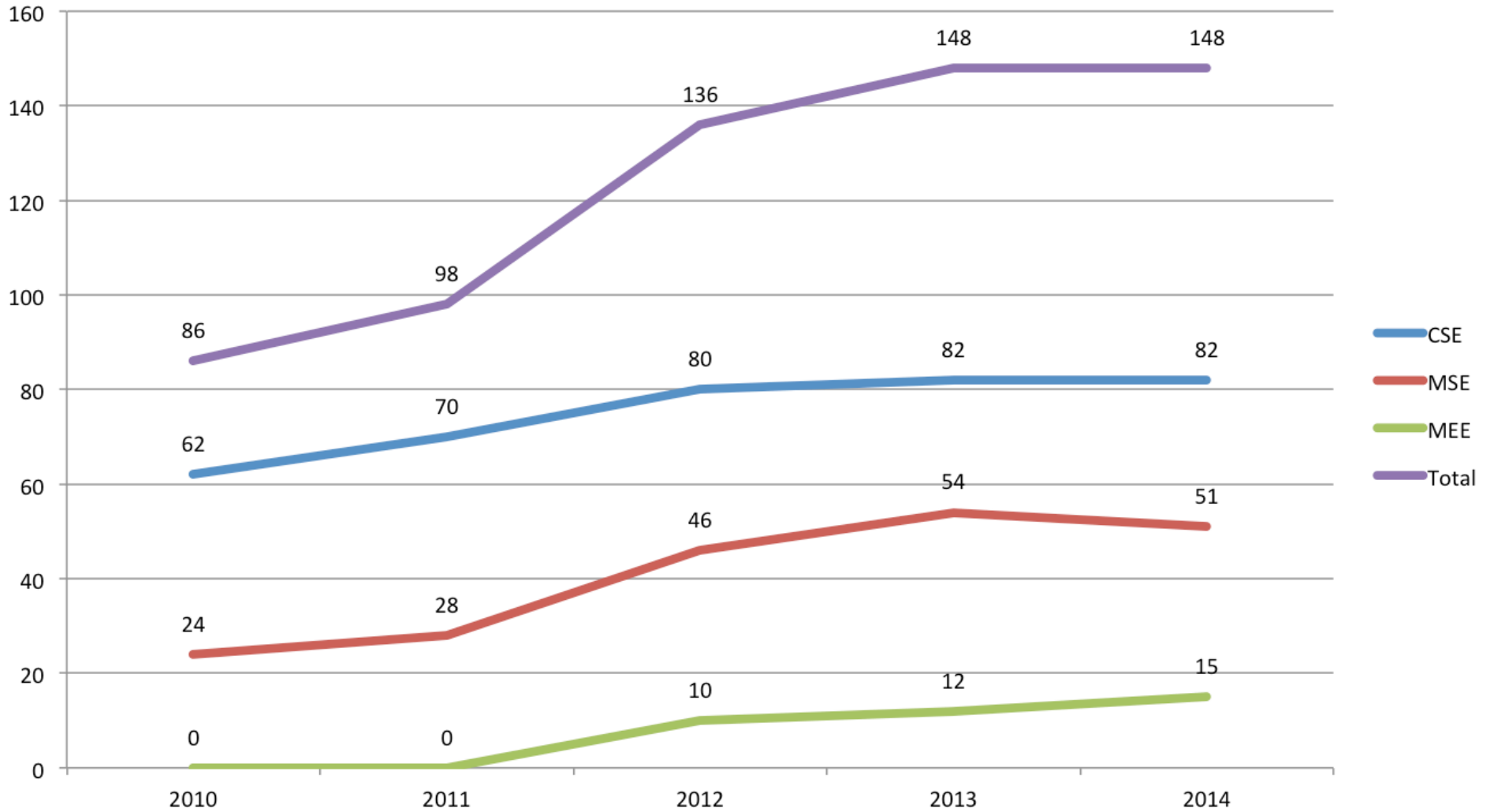
MS Enrollments



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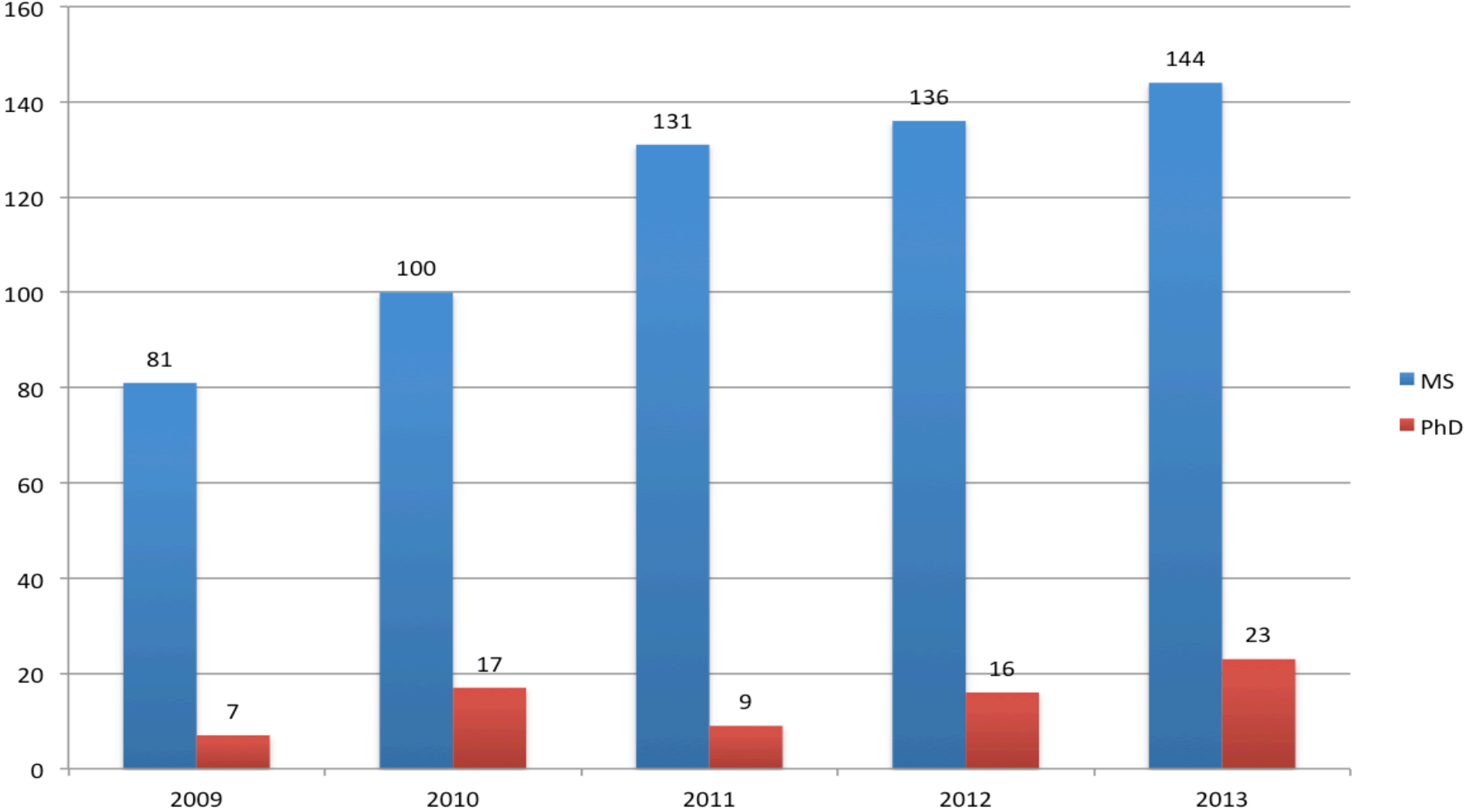
PhD Enrollments



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Graduate Degrees Awarded



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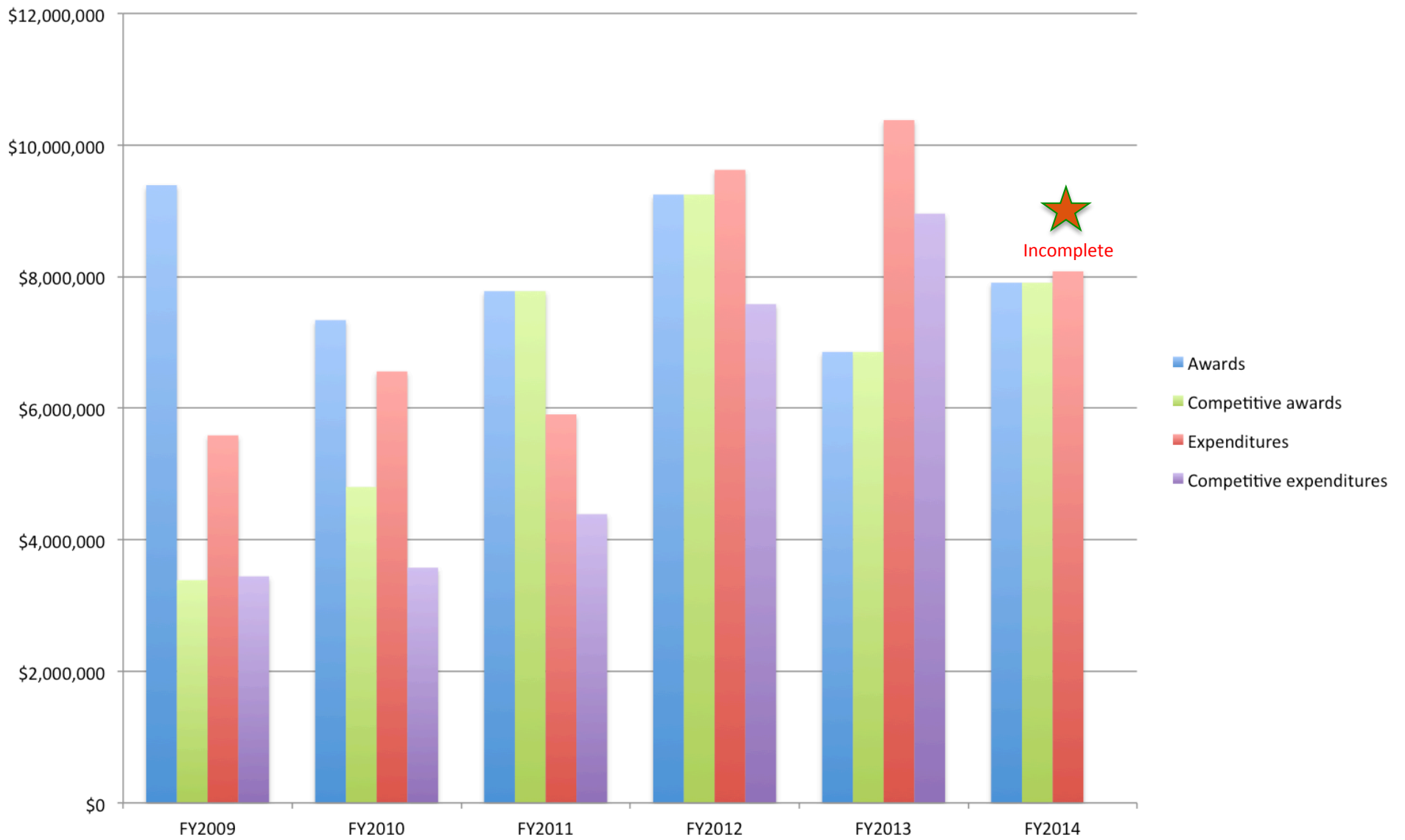
Other

- MEE PhD proposal approved by THECB subcommittee – Final vote 10/23
- EE PhD proposal submitted to the THECB
- GradTrack approved across CENG – First students enrolled
- The EF allowed us to offer tuition scholarships, support for conference travel, and now full time writing tutoring

Research and Scholarship

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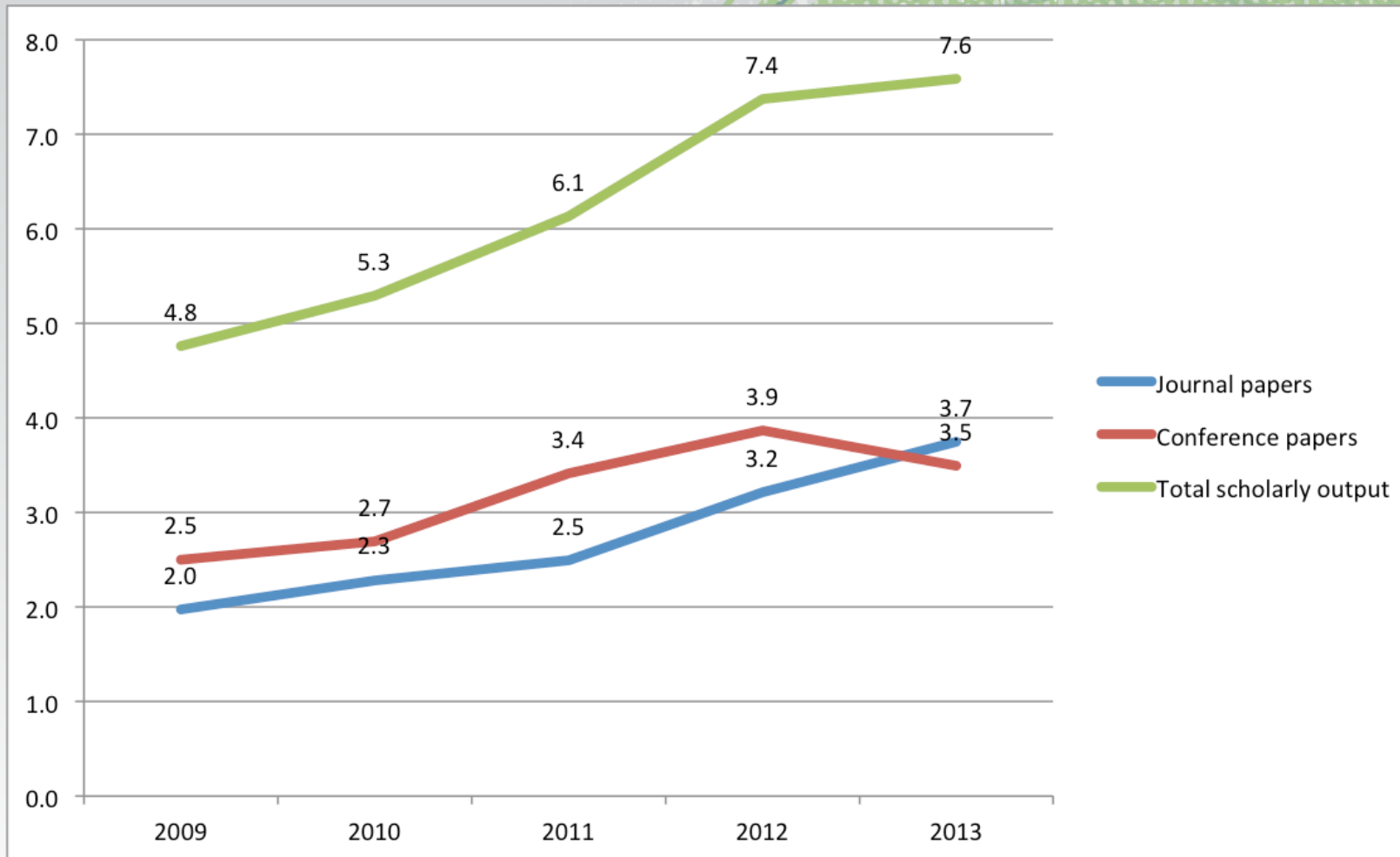
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Scholarly output per capita



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Others

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Policy

- College completed strategic plan for 2014-19
 - Departments finalizing theirs
- New P&T policies
- Examination of all departmental policies
 - Merit, bylaws, etc.

Faculty Additions

- Three new faculty hires
- Three new positions (MTSE, MEE, CSE) for next year
- UNT is expecting much more aggressive hiring the following year
 - You may have heard this before

Construction and Renovations

- Old CART space renovations – completed
- Engineering Testing Facility – completed
- Programming for renovations of Discovery Park – to be completed by mid-October

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International Relations

- Continued SUPER
- MEE working on 3+2 MOU with National Cheng Kung U., Taiwan
- Working with CIDESI, Mexico, on “sandwich” PhD degree
- Inst. Tecnológico de Saltillo will work with us on 3+2 and 2+2 degrees
- Upcoming visit to Thammasar U. to finalize 2+2 degree in CE and EE
- Upcoming visit to Mahidol U. to discuss 2+2 and 3+2 degrees
- Faculty continue to teach, visit, do research overseas
- We have a robust international research visitor program

Challenges

- How will our enrollments look with the new admissions criteria?
- With no immediate increase in faculty and TA resources, how do we best serve our students?
- Department evaluation and ranking – what will be the actions after Phase I, and what does Phase II entail?
- Eagle Express: a train to where??
 - Graduation and retention rates, engineering fee income, recruitment, 4-year graduation promise, advising, etc.
- Ever better PhD students
 - As of today no PhD applicants for F15
 - Who is recruiting? Where? How?
 - Postdocs vs. PhD
 - UNT plan to pay all PhD student tuition – a double edged sword

Challenges

- How can we generate more income?
 - Short courses, on-line courses, certificates
 - Who will teach them?
- 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 2013-14our faculty participated in 11 proposals with budgets greater than \$1,000,000
 - Cluster hires, collaborations, use of consultants
- UNT budget uncertainty
 - To be resolved in the next 3-4 months

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Opportunities

- 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
- Department evaluation and ranking – what will be the actions after Phase I, and what does Phase II entail?
 - Engineering and its departments have robust enrollments at all levels, excellent scholarship, and very good funding record. This evaluation can only benefit us
- Eagle Express: a train to where??
 - Graduation and retention rates, recruitment, 4-year graduation promise, advising, etc.

Challenges and Opportunities

If you have any thoughts on these or other issues, if you have concerns about your department, the College, UNT, our students, anything, please come and talk to me. Together we can meet every challenge and turn it into an opportunity

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