

Mechanical Engineering Department Metrics

| Metric | Department Goal | 2008 Performance | |
|---|---|---|-----|
| Faculty Statistics | | | |
| Faculty Diversity | Institutional Equity goals met | 1 female faculty member. | Yes |
| Student/Faculty Ratio (Headcount/Group I) | < 20 | 25 | No |
| Percent SCH taught by Group I | > 90% | 100.00% | Yes |
| Section Size - Small | <25% small sections actual courses | Yes (5 Ugrad classes < 10 students, not counting Summer session) | Yes |
| Section Size - Large | all below 70 | 1 class (ME101) exceeded the limit because all incoming ME students take the course. | Yes |
| Cost of Instruction | | | |
| Direct instructional expenditure per student FTE (Delaware Study) | all engg. programs within 10% of peer average | Unable to find recent data | |
| SUMS Space Study | Inventory within 10% of need | Unable to find recent data | |
| Student Statistics | | | |
| Total Majors | | | |
| ugrads | 255 | 251 (Fall '08) | No |
| masters | 25 | 21 (active registered Fall 08) | No |
| phd | 10 | 10 (ME track of Integrated Engineering) | Yes |
| Female Enrollment (50% higher than national) | 26% | 5% | No |
| Minority Enrollment | Top 20% of peers | 3.6% | ? |
| Student retention rate | >80% Freshman to Sophomore | 80% | Yes |
| Average enrolled time to grad (less coop quarters) | <4.67 | 4.64 (2001 cohort) | Yes |
| Entering student profile (Undergrad) | mean ACT new freshmen >24.0 | Unable to find departmental data | |
| Entering student profile (Grad) | 80th percentile or better GRE (quantitative) | | |
| Teaching | | | |
| Student Engagement | All selected NSSE responses >3 | Unable to find departmental data | |
| Grade Stability (undergraduate) | Faculty discussions of fair and appropriate grading | No problems evident. Will continue to monitor and discuss. | |
| Scholarship | | | |
| Journal Publications | average 1 per FTGI grad faculty per year | 9 total, or 1 per FTGI grad faculty | Yes |
| Conference Publications | average 1 per FTGI per year | 11 total, or 1.2 per FTGI grad faculty | Yes |
| Unrefereed Publications | as appropriate | | |
| Conference Presentations (Faculty) | average 1 per FTGI per year | 10 total, or 1.1 per FTGI grad faculty | Yes |
| Conference Presentations (Students) | average 1 per FTGI per year | 4 total, or 0.5 per FTGI grad faculty | No |
| Books published | one every 6 years | no new books, but still at 1 over past 2 years. | Yes |
| Book chapters published | as appropriate | 1 | Yes |
| Conferences Attended | average 1 per FTGI per year | 11 total, or 1.2 per FTGI grad faculty | Yes |
| Patents awarded | 1 every 2 years | 0 | Yes |
| Patent applications | 1 | 2 | Yes |
| Patent disclosures | 2 | 4 | Yes |
| External Funding | \$200k per FTGI grad faculty per year | \$218,344 in 2007-2008 ORSP research awards report (\$148K fed, 24K State, 46K other) which is \$27.5 K per FTGI grad faculty, but when averaged with the \$3.46 Million in 2006-2007 results in a 2-year running average >\$200K per FTGI grad faculty). | ? |
| Proposals written | 2 per FTGI grad faculty per year, each >\$50K | 22 total, or ~2.5 per FTGI grad faculty | Yes |
| External Graduate Student Support + Fee Paying Students | 60% | 55% (the number increases if including part-time students) | No |
| University Service | | | |
| University Committee Participation Rate | 25% | 60% | Yes |

| | | | |
|---|--|--|-----|
| Accreditation | ABET Accredited | Yes | Yes |
| Development (fundraising) activities | Support Dean as appropriate | Increased fundraising efforts for department, primarily for student projects | Yes |
| Professional Activities | | | |
| Federal Agency Review Panel Service | 1 | 1. Dave Bayless served on DOE STTR Review panel for Department of Energy SBIR/STTR solicitation (section 18b), 2008. | Yes |
| Papers Reviewed | average 2 per FTGI grad faculty per year | 35 total, or ~4 per FTGI grad faculty | Yes |
| Conference/Workshop chairs | 1 every 3 years | 2 | Yes |
| Technical session chairs | avg 1 per FTGI grad faculty per 2 years | 3 | Yes |
| Professional Certification (e.g., PE) | 25% of eligible GI | 20% | No |
| Journal Editor/Associate Editor | 1 every 6 years | 0 | ? |
| Professional Organization Officer (National) | 1 every 6 years | 1 [National (Central Region) Vice President for Pi Tau Sigma] | Yes |
| Professional Organization Membership | 100% | 100% | Yes |
| Accreditation visits conducted | NA (no ABET reviewers on staff) | | |
| Collaboration University Wide or With Other Institutions | | | |
| Collaborative or Interdisciplinary Participation (Joint grants & contracts) | 20% of FTGI grad faculty with active grants or contracts | 33% | Yes |
| Courses Co-taught (within university) | Will look for opportunities | 2 | Yes |
| Courses Co-taught (outside university) | Will look for opportunities | 0 | ? |
| Co-Author Papers (within university) | 1 per year | 10 | Yes |
| Co-Author Papers (outside university) | Will look for opportunities | 0 | No |
| Prominence Misc | | | |
| Fellow of national/international society | ≥ 1 | 2 ASME fellows. | Yes |

Note: 11 FTG1 in 2007-2008, 12 FTG1 in 2008-2009. 9 FTG1 w/ grad faculty status (3 pre-tenure), 1 with associate grad faculty status.