Graduate Programs
MAE Department
Industrial Advisory Board Meeting
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teD iwasaki
Vice Chair for Graduate Affairs
GRADUATE PROGRAMS

• The MAE Department offers programs leading to the M.S. and Ph.D. degrees in Mechanical Engineering or Aerospace Engineering, as well as to the M.S. degree in Manufacturing Engineering.
• The Ph.D. degree program is based on major fields of engineering science that provide support for the two engineering disciplines.

Major Fields of Study:
• Dynamics
• Fluid Mechanics
• Heat and Mass Transfer
• Manufacturing and Design
• MEMS/Nanotechnology
• Structural and Solid Mechanics
• Systems and Control

Minor Fields of Study:
• Applied Mathematics
• Applied Plasma Physics
Graduate Student Recruitments

A fellowship method has been employed in the last five years in order to engage the faculty actively in graduate student recruitment.

- Budget:
  - Graduate Division: $738,169, $709,761, $689,374, $544,506, $546,000
  - Deans Office: $132,000, $129,000, $144,000, $141,285, $141,000
  - Matching NRT: $75,000, $90,612, $105,714, $105,714, $117,552
  - IAB: $0, $0, $0, $35,000, $25,000
  - TOTAL: $945,169, $929,373, $939,088, $826,505, $829,552

- 36 Departmental Fellowship offers were made (22 accepted, 61%), among those accepted, Fellowships varied from $30,000 to $45,000 which consisted of a stipend, registration fees (and nonresident tuition if necessary).

- 17 students were offered Non-Resident Tuition (11 accepted, 65%).

- Awarded 7 Cota-Robles Fellowships (for PhD Students). This four-year fellowship currently provides a stipend of $21,000.00 plus registration fees and nonresident tuition (for the first year only) if necessary. During the student's fourth year, the Graduate Division provides a second year of support in the form of a Graduate Research Mentorship Award upon activation of the award by the student and the department. The student's department is obligated to provide two or more years of equivalent support.

- Awarded 1 G.O.F.P. Fellowships (for MS Students). This one-year fellowship program provides recipients with a $18,000.00 stipend plus registration fees (and nonresident tuition if necessary).
Graduate Applications

Increasing for 5 years!
Mechanical Foreign Male

Applied

Aerospace

Mechanical

Foreign

Males

Females

MS

PhD

Applied
Graduate Admissions

Steady increase over 10 years
Less domestic
More foreign
Graduate Enrollments

Steady Increase

Foreign Ph.D
F12 => F14
Applied, Admitted, Enrolled Students

Applied
Admitted
Enrolled
Admitted/Applied (Selectiveness)

Getting more selective in the past 5 years
Enrolled/Admitted (Competitiveness)

Staying competitive
Graduate Total Enrollments

Dean’s Target = 360
Ph.D = 240
MS = 120
Graduate Diversity

National Grad.AE/ME

Female

Minority

14%

9%

MS: F-AE=14.8%, F-ME=13.3%, MIN=11.2%
Ph.D: F-AE=15.0%, F-ME=14.3%, MIN=7.7%