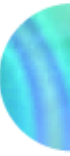
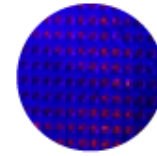


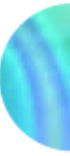
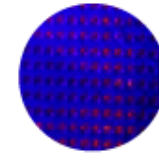
Undergraduate Program

Issues for the Advisory Board to consider

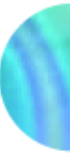
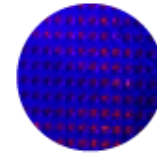
Mel Gomez
Associate Chair for Undergraduate Education



Attributes you would like to see in graduating students from ECE ?



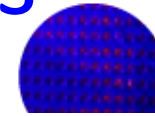
What added training would you like to see our students have, what industry standards must they learn?



Ideas to have the programs be more hands on/improve graduation rates.

Graduation Rates

(ECE)



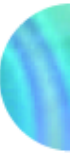
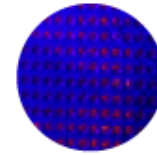
	Retained or Graduated				Graduated		
	Cohort Size	After 1 Year	After 2 Years	After 3 Years	After 4 Years	After 5 Years	After 6 Years
Fall 2005	101	75.20%	52.50%	49.50%	37.60%	44.60%	48.50%
Fall 2006	95	73.70%	63.20%	62.10%	38.90%	56.80%	56.80%
Fall 2007	89	84.30%	64.00%	59.60%	38.20%	53.90%	56.20%
Fall 2008	100	80.00%	72.00%	64.00%	48.00%	61.00%	
Fall 2009	103	84.50%	71.80%	69.90%	47.60%		
Fall 2010	125	80.00%	67.20%	63.20%			
Fall 2011	126	81.70%	66.70%				
Fall 2012	136	83.80%					

(ME)

	Retained or Graduated				Graduated		
	Cohort Size	After 1 Year	After 2 Years	After 3 Years	After 4 Years	After 5 Years	After 6 Years
Fall 2005	76	71.10%	53.90%	48.70%	31.60%	48.70%	48.70%
Fall 2006	89	71.90%	60.70%	58.40%	43.80%	53.90%	55.10%
Fall 2007	76	81.60%	68.40%	63.20%	44.70%	57.90%	59.20%
Fall 2008	66	86.40%	75.80%	75.80%	62.10%	74.20%	
Fall 2009	101	85.10%	75.20%	69.30%	58.40%		
Fall 2010	98	86.70%	79.60%	76.50%			
Fall 2011	113	85.80%	78.80%				
Fall 2012	112	84.80%					

(AJC)

	Retained or Graduated				Graduated		
	Cohort Size	After 1 Year	After 2 Years	After 3 Years	After 4 Years	After 5 Years	After 6 Years
Fall 2005	558	81.90%	66.80%	62.70%	42.70%	57.90%	60.00%
Fall 2006	590	84.40%	73.70%	68.10%	48.60%	62.70%	64.10%
Fall 2007	601	86.70%	73.50%	69.20%	51.90%	64.40%	65.70%
Fall 2008	608	86.00%	75.20%	70.40%	53.80%	67.30%	
Fall 2009	668	89.20%	80.10%	76.60%	59.60%		
Fall 2010	685	90.20%	82.30%	78.20%			
Fall 2011	744	88.30%	78.50%				
Fall 2012	683	90.20%					



How we are meeting Program Educational Objectives?

(<http://www.ece.umd.edu/undergraduate>)



Heads Up

(Sometime next year) you will be asked to write a response on the following questions:

1. In your opinion, how well do these objectives meet the needs of the EE/CpE constituencies you represent.
2. How could the program educational objectives be changed to better meet the needs of the EE constituencies you represent? (Essay answer)



Program Educational Objectives (UMD ECE)

Technical Accomplishments: Have our graduates establish a reputation for technical expertise and excellence among colleagues and achieve professional recognition for their work, in graduate or professional school and/or the technical workforce.

Invention, Innovation, and Creativity: Have our graduates utilize their skills and resourcefulness to invent, design and realize novel technology; to find creative and innovative solutions to engineering problems; and to identify, research and solve new technical challenges in electrical engineering and related fields.

Professional Development: Have our graduates stay abreast of emerging technologies, continually learn new skills, and actively participate in professional communities to nourish ever-developing careers.

Professionalism & Citizenship: Have our graduates embrace cultural societal, environmental, and ethical issues in their work to help fulfill their professional responsibilities to themselves, employers, employees, co-workers, and the local and global communities.

Communication & Teamwork: Have our graduates excel on multi-disciplinary and multi-cultural teams, demonstrate leadership, and effectively employ their oral and written communications skills to respond to problems and inform, educate and persuade diverse audiences.



PEOs: UC Berkeley EECS

- Preparing graduates to pursue post-graduate education in electrical engineering, computer science, or related fields
- Preparing graduates for success in technical careers related to electrical and computer engineering, or computer science and engineering, and
- Preparing graduates to become leaders in fields related to electrical and computer engineering or computer science and engineering



PEOs: UC San Diego

- The **Educational Objectives** of the USD **Electrical Engineering** Program are to develop graduates who:
- Are able to apply their electrical engineering and broad academic backgrounds in their professional and personal endeavors;
- Can adapt to evolving job responsibilities;
- Can contribute effectively on a team and provide leadership in their professional careers.