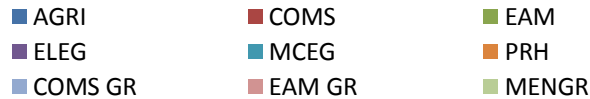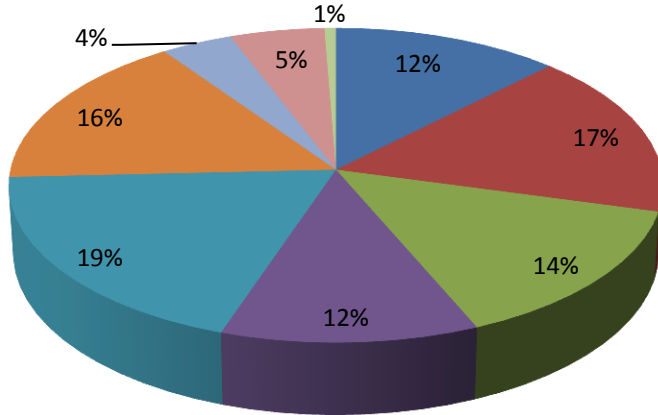# College of Engineering & Applied Science

Strategic Planning Information Session

EAS Enrollment
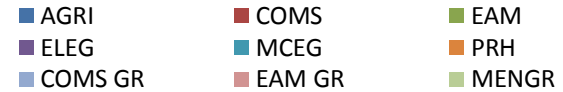
EAS Enrollment By Deparment 2011

Legend: AGRI, COMS, EAM, ELEG, MCEG, PRH, COMS GR, EAM GR, MENGR

Values shown: 12%, 17%, 14%, 12%, 19%, 16%, 4%, 5%, 1%

EAS Enrollment By Department 2015

Legend: AGRI, COMS, EAM, ELEG, MCEG, PRH, COMS GR, EAM GR, MENGR

Values shown: 16%, 17%, 15%, 12%, 21%, 12%, 3%, 4%, 1%
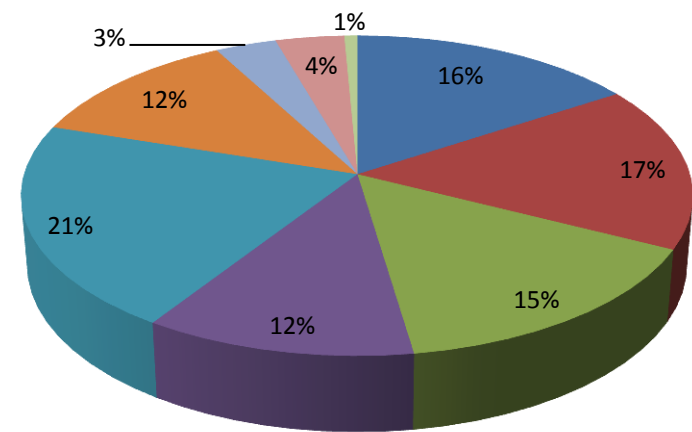
2011 College	
American Indian/Alaska Native	1%
Asian/Pacific Islander	2%
Black	5%
Hawaiian	0%
Hispanic	2%
Multiple Ethnicities	1%
Non-resident Alien	11%
White	78%
Female	22%

2011 Engineering Data	
American Indian/Alaska Native	1%
Asian/Pacific Islander	2%
Black	5%
Hawaiian	0%
Hispanic	4%
Multiple Ethnicities	0%
Non-resident Alien	7%
White	80%
Female	5%

2015 College Data	
American Indian/Alaska Native	1%
Asian/Pacific Islander	1%
Black	7%
Hawaiian	0%
Hispanic	4%
Multiple Ethnicities	3%
Non-resident Alien	13%
White	72%
Female	26%

2015 Engineering Data	
American Indian/Alaska Native	0%
Asian/Pacific Islander	1%
Black	6%
Hawaiian	0%
Hispanic	4%
Multiple Ethnicities	3%
Non-resident Alien	20%
White	66%
Female	8%

Enrollment Trends

EAS Positive Enrollment Trends

AGRI — COMS — ELEG — MCEG
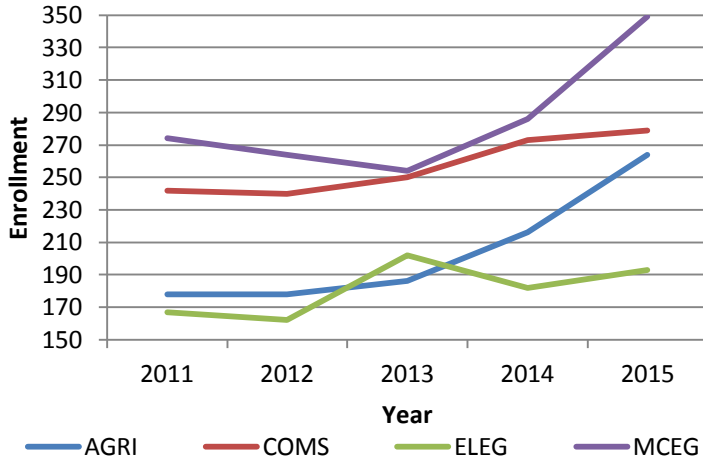
EAS Negative Enrollment Trends
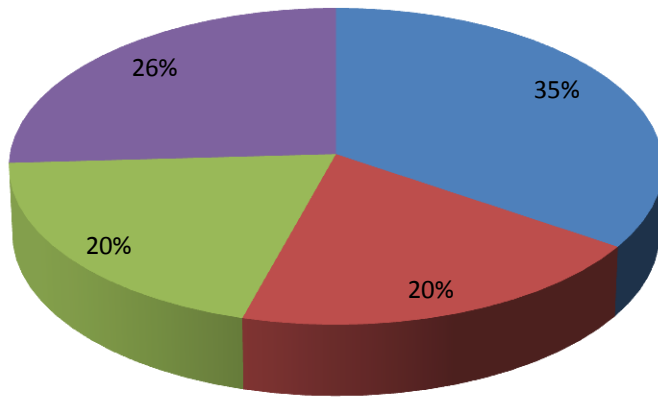

EAM — PRH
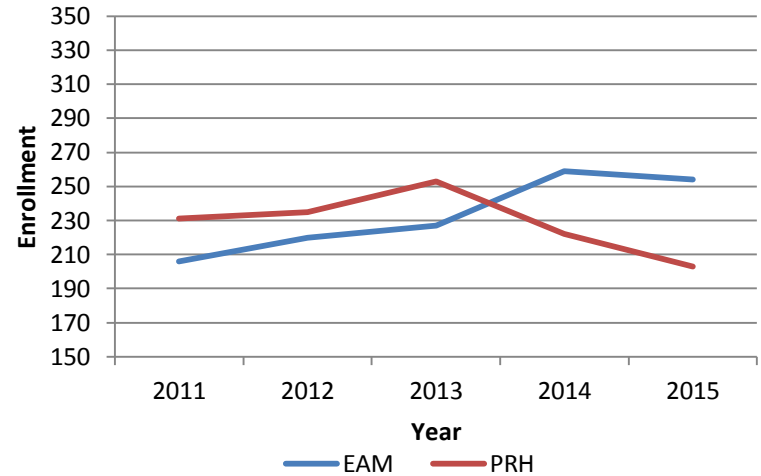
Graduate Program Enrollment Trends

EAM — IT — MENGR
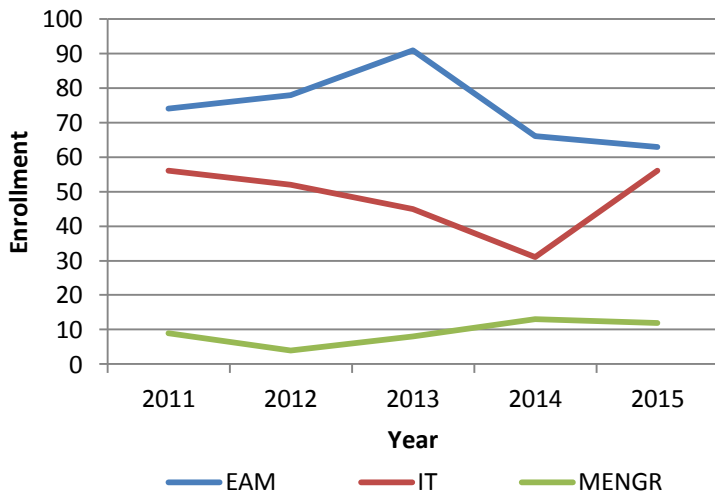
Largest Growth – International
  (Saudi, Chinese, Japan, etc)
Negative Trend - Emergency Management
  (Instability, MS potential)

EAS Student Financial Need

EAS Financial Need 2011

35% — Low Need
20% — Medium
20% — High Need
26% — Unknown

Legend: ■ Low Need ■ Medium ■ High Need ■ Unknown

EAS Financial Need 2015

33% — Low Need
20% — Medium
20% — High Need
28% — Unknown
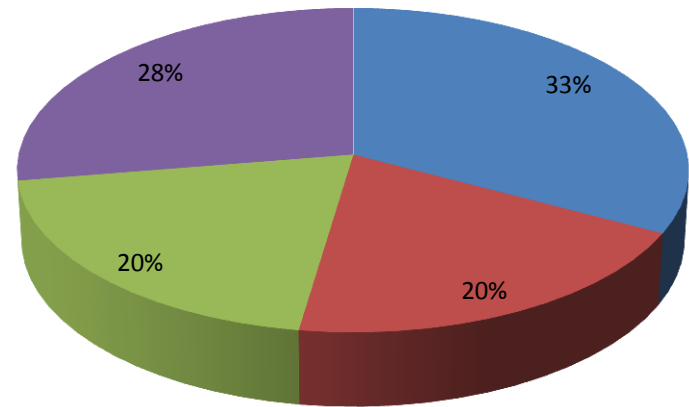
Legend: ■ Low Need ■ Medium ■ High Need ■ Unknown

Initiatives

- Add/Increase Lab Fees
- Biomedical Option to EE program
- Interdisciplinary - BS
  - Systems Technology/Precision Agr (Engr/Agr)
  - Engr Technology (Engr Fusion)
  - Turf Management (Agr/PRHA)
  - Meat Processing/Food safety (Agr/on-line)
- Computer Education Degree
- Research/Project Based Education (industry
- Increase Master's Degrees (PhD)
  - Agr Bus/Com, Engr,
- Interdisciplinary Projects, Courses & Programs
- Assessment Standardization
- Leadership Training (Department Heads)
- Diversity Training (Faculty)

Proposed Degree Plan for Curriculum in Computing Education
for Teacher Licensure

Freshman

Fall		Spring	
ENGL 1013 Composition I1,T	3	ENGL 1023 Composition II1,T	3
U.S. History/Government1,T	3	Social Sciences1,T	3
TECH 1001 Orientation to the University	1	Fine Arts & Humanities1,T	3
COMS 1403 Orientation to Computing, Info, and Technology	3	COMS 2903 Discrete Structures for Technical Majors	3
COMS 1411 Computer Science Lab	1	COMS 2104 Foundations of Computer Programming I	4
MATH 1113 College Algebra	3		
Total Hours	**14**	**Total Hours**	**16**

Sophomore

Fall		Spring	
Science w/lab	4	Science w/lab	4
SPH 2003 Public SpeakingT or SPH 2173 Business and Professional Speaking	3	ElectiveT	3
COMS 2203 Foundations of Computer Programming II	3	Social Sciences1,T	3
COMS 1333 Web Publishing I	3	COMS 2213 Data Structures	3
SEED 2002 Education as a Profession	2	COMS 2703 Computer Networks and Architecture	3
		COMS 2700 Networking and Architecture Laboratory	0
Total Hours	**15**	**Total Hours**	**16**

Junior

Fall		Spring	
Fine Arts & Humanities1,T	3	COMS 3243 Data Mining	3
ElectiveT	3	COMS 3403 App Development (new)	3
COMS 3053 Implications of Tech/Society	3	COMS 4703 Data Communication	3
COMS 3233 Database Design and Implementation	3	COMS 4700 Networking Laboratory	0
SEED 3552 Child and Adolescent Development	2	SEED 4052 Educating Diverse and Exceptional Learners	2
SEED 3702 Introduction to Educational Technology	2	ElectiveT	3
		ElectiveT	1
Total Hours	**16**	**Total Hours**	**15**

Senior

Fall		Spring	
COMS 4033 Systems Analysis and Design I	3	SEED 4503 Seminar in Secondary Education	3
COMS 4813 Teaching Methods in Computing (new)	3	SEED 4809 Teaching in the Elementary & Secondary School	9
ElectiveT	3	COMS 4801 Special Methods in Computing (new)	1
SEED 4556 Classroom Application of Educational Psychology	6		
Total Hours	15	Total Hours	13

Initiatives

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- Research/Project Based Education (industry
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  - Agr Bus/Com, Engr,
- Interdisciplinary Projects, Courses & Programs
- Assessment Standardization
- Leadership Training (Department Heads)
- Diversity Training (Faculty)

Roadblocks

- Resources –KEY!!!!!!
- Industry (Arkansas Nuclear One) Support – unable to attend class
- Assessment & Continuous Improvement
- Marketing
  - (e.g. SAU has TV spots on Engr-Just stood up - No separate spots for Tech programs)
  - State Wide advertising ?
- Better Donor Support