# **Department of Engineering Technology**

Overview Briefing for LICA: Association of Dutch Higher Education Professionals



Dan Solarek, Professor and Chairman October 13, 2009

# **One of Six Engineering Departments**

- Bioengineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering & Computer Science
- Mechanical, Industrial & Manufacturing Engineering
- Engineering Technology (ET)





- College of Engineering
  - -Twice as big as any other department
  - -Almost 40% of the undergraduate population
- University
  - -Twice as big as any other department
  - Nearly as big as some colleges, bigger than some

999 undergrads



- College of Engineering
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  - -Almost 40% of the undergraduate population
- Universit
  - -Twice
  - Nearly bigger

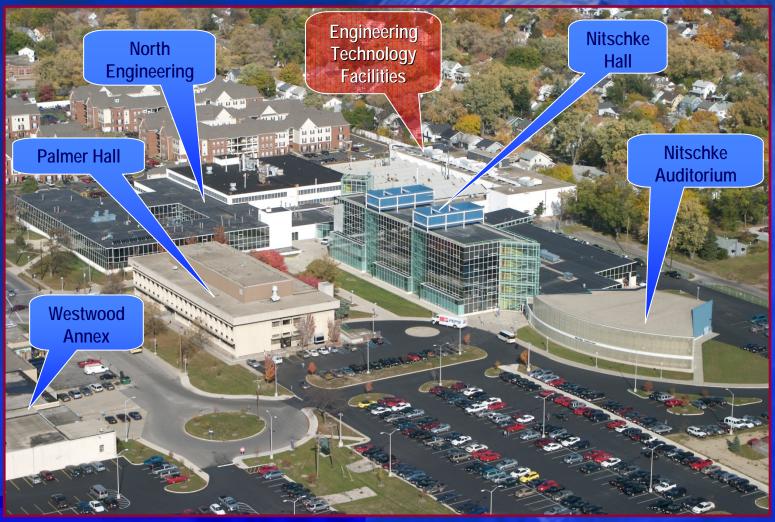
College	Department	Fall 09 Enroll
COE	ET	999
HSHS	Criminal Justice	543
COE	MIME	495
A&S	Psychology	486
HSHS	Exercise Science	456
JHCOE	Early Childhood	447
A&S	Biology	413
COE	EECS	407
A&S	Communication	384
JHCOE	Ad & Young Adult	368
UC	Indiv Programs	358
COBA	Marketing	350



999 undergrads



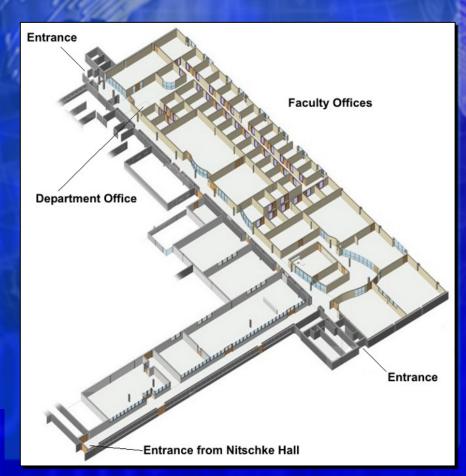
## **ET Location**





### **ET Facilities**

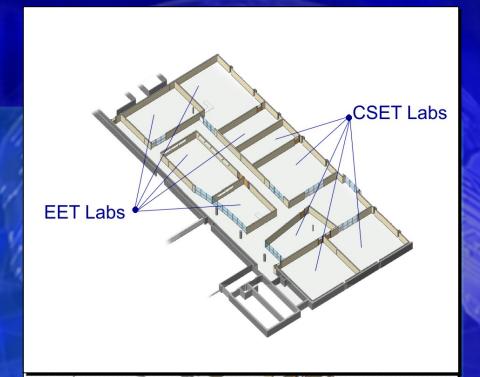
- Our recent move from Scott Park has had a positive impact on faculty and students
- Achieves physical integration with the rest of the College

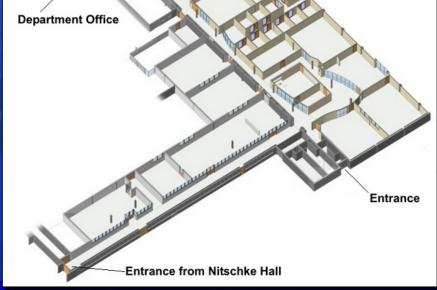




### **ET Facilities**

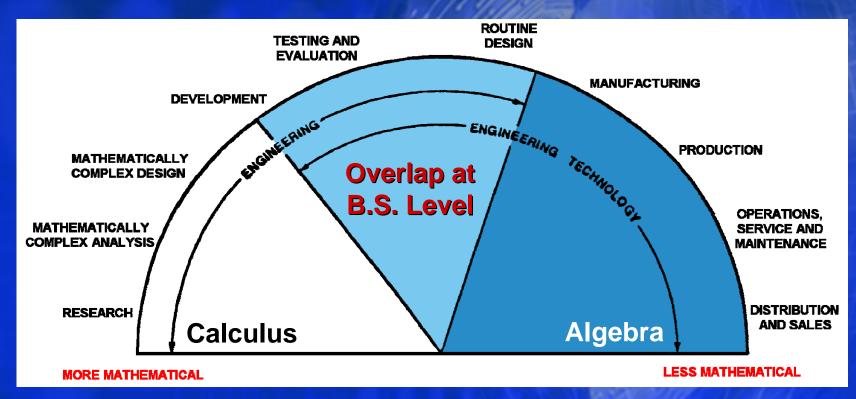
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- Achieves physical integration with the rest of the College







# **Engineering and Engineering Technology**



... ET course emphasis is on applications -----



# **Degree Programs Offered by ET**

- Undergraduate, BS Degrees
  - –Computer Science & Engineering Technology (CSET)
  - –Construction Engineering Technology (CET)
  - –Electrical Engineering Technology (EET)
  - –Information Technology (IT)
  - –Mechanical Engineering Technology (MET)

**DHS** 



### **ET Faculty and Staff**

- 16 T/TT Faculty
  - average 10 years of industrial experience
  - -8 P.E., 1 Arch.

- 4 Staff
  - 1 secretarial
  - 2 computer/lab support
  - 1 advising/retention





# **Degree Programs Offered by ET**

- Graduate, MS Degree
  - -General engineering
    - Practice oriented
    - Project, not thesis
    - Business component
    - Available online
  - –Admits
    - Employed "engineers"
    - ET or engineering BS grads



### **Professional Technical Programs**







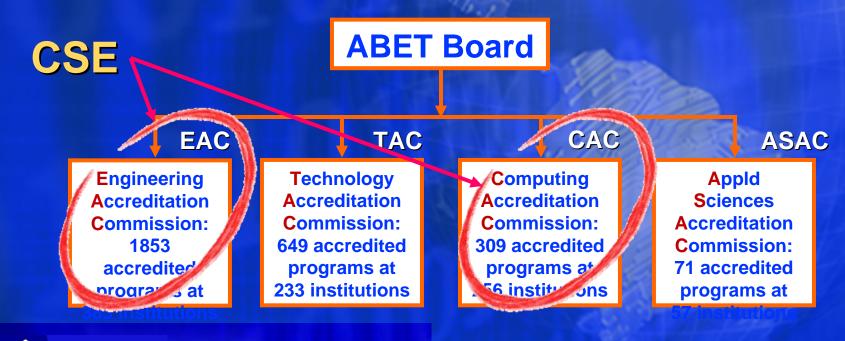






### **Accreditation**

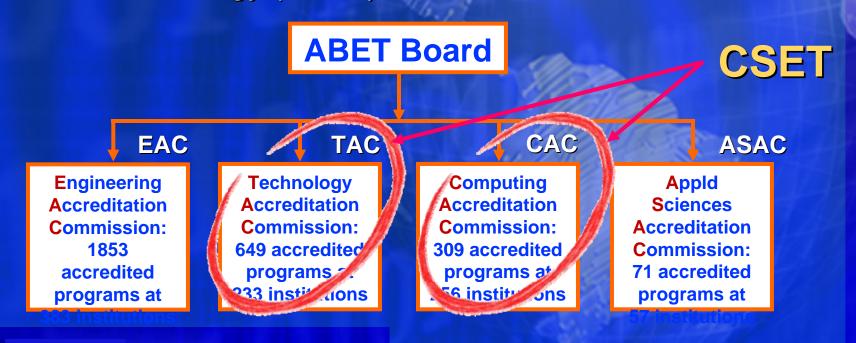
- Programmatic accreditation
  - All programs within the College of Engineering are accredited by the Accreditation Board for Engineering and Technology (ABET):





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# **Information Technology**





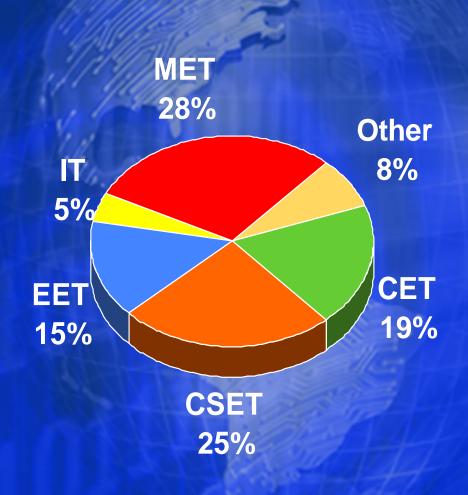






# **ET Enrollment By Program**

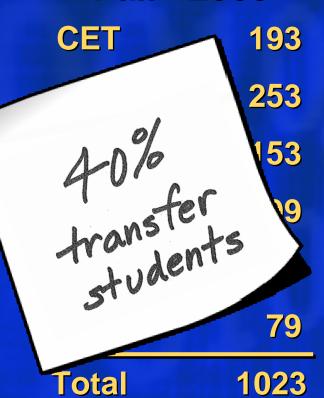
Fall	2009
CET	193
CSET	253
EET	153
MET	299
IT	46
Other	79
Total	1023





### **ET Enrollment By Program**

Fall 2009

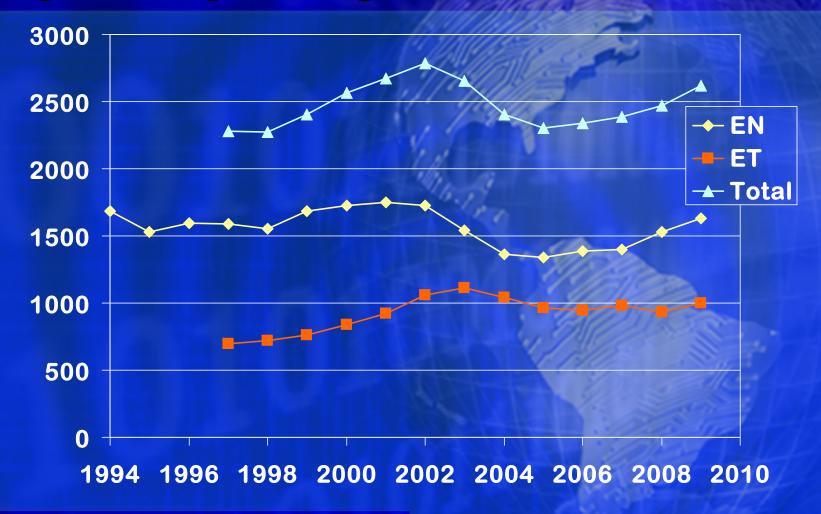


#### MET

	College or Department	Fall 08 DHS		
1	Undecided	620		
2	Pre-Pharmacy	391		
3	Nursing	329		
4	Pre-Business	292		
5	ET	133		
6	Pre-Medical	129		
7	Exercise Science	128		
8	Pre-Major	120		
9	Mechanical Engineering	109		
10	General Studies	100		



# **Engineering Undergraduate Enrollments**





- We are the only institution in NW Ohio to offer the BS degree in ET
- We enroll more ET students than any other institution in the state
- We award more ET degrees

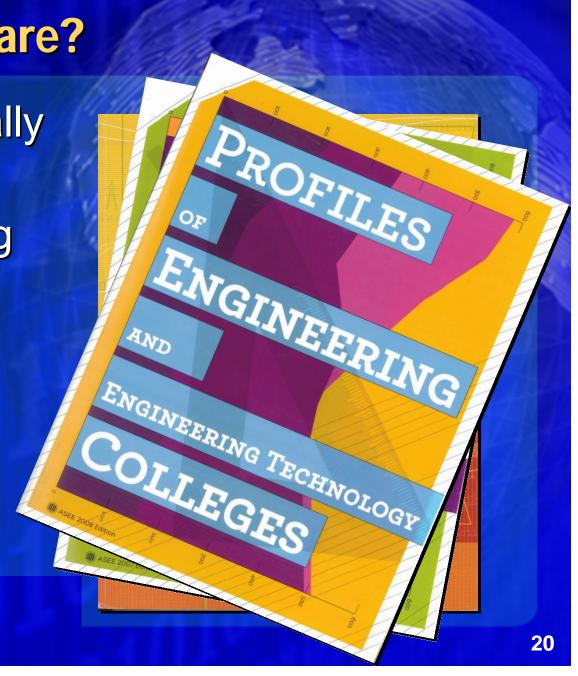




Published annually by ASEE

 Both Engineering and Engineering Technology

 Widely used by students and parents





- Undergraduate
   Enrollment in ET
- Ranked 7<sup>th</sup>
- Poised to move up
  - IT marketing
  - expanded degree completion
  - additional staff and faculty resources

# ENGINEERING TECHNOLOGY ENROLLMENT BY SCHOOL\*

1.	Ferris State University	2,046		
2.	Southern Polytechnic State University	1,646		
3.	Indiana U. Purdue U., Indianapolis	1,417		
4.	Rochester Institute of Technology	1,279		
5.	Purdue University	1,062		
6.	Wentworth Institute of Technology	941		
7.	University of Toledo	911		
8.	Old Dominion University	899		
9.	University of Houston	821		
10.	10. University of Cincinnati			



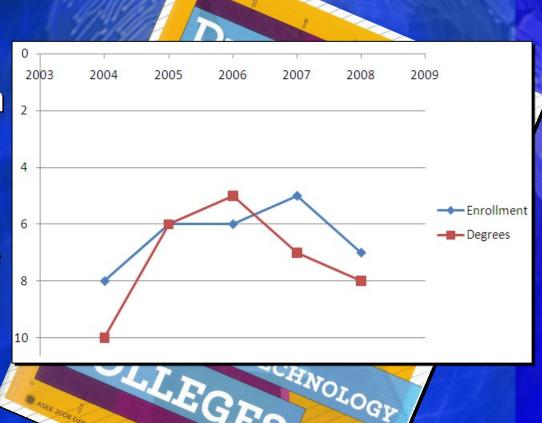
- Bachelor's Degrees
   Awarded in ET
- Now 8<sup>th</sup>
- None have significantly better productivity
  - degrees per enrollment
  - most have a better student/faculty ratio

# ENGINEERING TECHNOLOGY BACHELOR'S DEGREES AWARDED BY SCHOOL

1	Ferris State University	408
2	Southern Polytechnic State Universit	y 246
3	Indiana U. Purdue U., Indianapolis	225
4	Purdue University	224
5	University of Houston	210
6	Rochester Institute of Technology	208
7	Wentworth Institute of Technology	183
8	University of Toledo	180
9	University of Cincinnati	172
1	0. Old Dominion University	163



- Our ET department has consistently ranked in the top ten
- Past five years shown at right
- Slight drop when we eliminated our AAS offerings





**DHS** 

# **Serving Students**

transfer

AAS



	Fall Semeste	r	Spring S	Semes	ster	alo	lult		
nan	WATH 1040 Callege Alge ENGT 1000 Intra To Eng ENGT 1050 Camputers (ENGL 1110 Callege Cam EET 1010 Resistive Circ.		Fall Semester		Spring Semester	Spring Semester Summer Semester			
eshr Yea			MATH 1340 Callege Algebra & Tria. ENGT 1000 Intra. Ta Engin		4 cr. CSET 1200 GUI Programming	Ger.	ENGL 1110 Callege Campasition I	Ger.	
표			ENGT 1030 Computers for Total 8 hours		Fall Semester	Spi	ring Semester	Summe	r Semester
Sophomore Year	TSPS 1010 Tech, Physic MATH 2450 Technical C: CSET 2100 Small Compi EET 2210 Digital Logic F	ear 2	MATH 2450 Technical Calc EET 2010 Electronic Princij	eshman Year	ENGT 1000 Intra. Ta Engineering Tech. 1 ENGT 1050 Camputers (ar Eng. Tech. 3 ENGL 1110 Callege Campas kian I 3	er. EET 10 er. EET 20 er. ENGL2	1200 GUI Programming G.cr. 1200 Reactive Circuits 4.cr. 100 Electronic Principles 4.cr. 2950 Sci. & Tech. Report Writing G.cr. Science Elective G.cr.	OPEN	
Sopt	Total 16 hou								
Junior Year									
ior ar	Total 17 hou  CSET 4830 F  EET 4250 Mi				Γand IT pr	ogr	ams		echnology 4 cr. Net. & Data Comm 4 cr. opment Elective 4 cr. sective Ocr.
Senior Year	CSET 4100 CSF Progravi Ham /Soc. Sci / Makicaka Total 14 hours	Үеаг	Hum/Soc. Sci/Mukicukural Total 7 hours	Pre-J Ye	Multicultural Elective (U.S.) 3  Total 17 hours	=r.	As an in Grade Experience 4.5	Total 15 hours	matrix 30.
Full-time  Day  CSET 4250 Applied Prog. L CSET 2200 Client-Server C Total 6 hours				Junior Year	ENGT 3940 Carap Experience #3	CSET 4 CSET 4 Profess	050 Digital Systems Besign 4 cr. 4830 Field Prog. Logic Dev. 4 cr. 4100 CGI Prog With Perl & Java 3 cr. sional Development Elective 3 cr. 4 hours	cr. ENGT 3940 Carap Experience #4	
			rt-time Night	Senior Year	EET 4250 Microcomputer Architecture 4 CSET 3200 Client/Server Computing 3 CSET 4250 Applied Prog. Languages 3	or. or. or. or. or.			

**Optional Co-op** 



## **Degree Completion Partners**

- Central Ohio
- Cincinnati State
- Columbus State
- Cuyahoga
- Lakeland
- Rhodes
- Lorain County
- Northwest State
- Sinclair
- Stark State





## **Degree Completion Program**

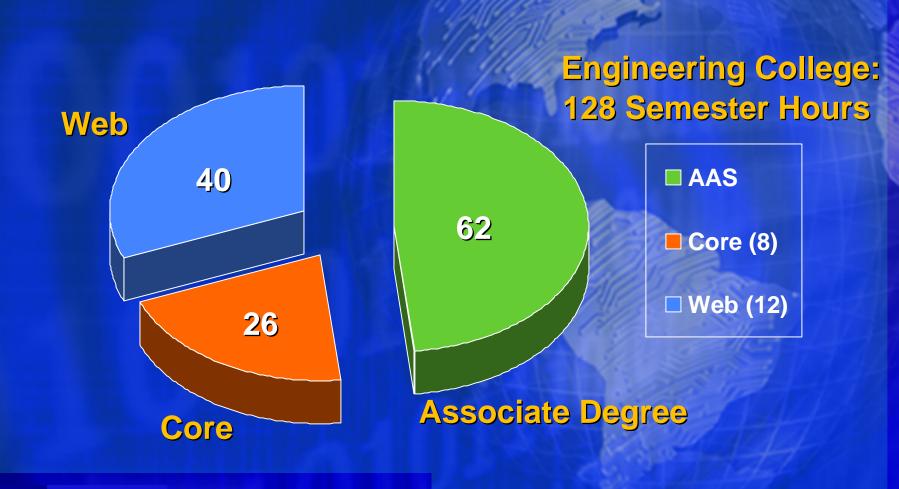


Web-based Distance Learning Courses

- Dual admission: UT and CC
- First two years:
  - Articulated AAS program
- Second two years:
  - Social sciences, etc. at CC
  - Technical web-based courses
    - Taught by full-time faculty
  - Optional on-site courses
- Earn a UT BS in Engineering Technology Degree
- All without leaving home!



# **Degree Completion Distribution**





### **Questions / Discussion**

# Your questions and comments are welcome



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