

Pittsburg State University's Academic Program Review – 1999-2003
(Review Performed During FY 2004)

1. Program

Department:	Engineering Technology
Program Area:	Graduate
Degree:	Masters of Engineering Technology
Option/Specialization:	Construction, Mechanical, Manufacturing, Plastics
Program Faculty:	Hahn, Ibeh, Leland, Otter, Susnik, Thomas, Tullis, Williamson

2. Departmental Credit Hour Production Profile (developed from information supplied by Institutional Research)

		FY/99	FY/00	FY/01	FY/02	FY/03
Student Credit Hours:	UD					
		374	413	560	568	788
GR						
Cost Per Credit Hour:	UD					
(based on actual expenditures)	GR	231	240	266	271	305
OOE Budget: (from dept. records)						

3. Program Profile (developed from information supplied by Institutional Research)

	FY/99	FY/00	FY/01	FY/02	FY/03
Number of Program Majors:	11	20	20	18	30
Number of Graduates:	0	5	5	12	16
Retention Rate:					
ACT Scores of Majors:					

Ethnicity	FY/99	FY/00	FY/01	FY/02	FY/03
Native American					
Asian					
Black					1
Hispanic				1	2
White	5	6	5	4	10
NRA	1	1	3	4	10
Other					1
N/A	4	12	12	9	2
Gender					
Male	9	17	17	16	27
Female	1	3	3	2	3

4. Program Foundation

a. Program Purpose:

The Department of Engineering Technology provides a graduate Masters of Engineering Technology education to the State of Kansas, to the surrounding Midwest region, and to expanding national and international regions. This is accomplished through the combined efforts of Engineering Technology programs in Construction, Manufacturing, Mechanical, and Plastics. The Department of Engineering Technology is committed to assisting the University in fulfilling its statewide mission in technology development by providing a professional multi-disciplinary team and project oriented approach to graduate education.

b. Program Goals and Objectives:

- 1 Goal: To establish a quality Masters of Engineering Technology education.
- 2 Goal: Establish the Graduate Program in Engineering Technology as the premier engineering technology graduate program in the Midwest region.
- 3 Goal: Market and promote the Masters of Engineering Technology program.
- 4 Goal: Obtain funding to support graduate students with assistantships.

c. Program Theoretical and Conceptual Frameworks:

d. Response to Previous Program Review:

This is first review. This program started in 1998.

e. Strategic Planning Initiatives Directly Related to Program:

Strategies - Comprehensive examinations of students in selected courses (ETECH 804, ETECH 809 and ETECH 831).

Strategies - Graduate faculty to review team projects.

Strategies - Graduate faculty to be technically current

Strategies - Develop on-line courses that have the same educational value as campus taught course.

Strategies - To recruit by direct mail and web page.

Strategies - to solicit former graduate students for ideas on obtaining funds for graduate students.

5. Program Course Information - Include only courses Offered by this Department

No.	Course	Type of Faculty T = Tenure Track GA = Grad. Asst. O = Other Note % of sections taught by each.	Enrollment trend (3 yrs) ++ = >25% inc. + = 10-25% inc. “±” = w/in ±10% - = 10-25% decr. -- = >25 decr.	When Scheduled F = Fall S = Spring R = Summer	Type of Course R = Required E = Elective C = Cognate/ Support CAP = Capstone/ Assessment	Rationale (Why course?)
1.	ETECH 804 Quality: Management & Control	T		VARIES	R	
2.	ETECH 805 Current Issues in Engineering Technology	T		F/R	R	
3.	ETECH 807 Systems Engineering & Analysis	T		S	R	
4.	ETECH 809 Engineering Management	T		F	R	
5.	ETECH 810 Collaborative Projects for Engineering Technology	T		S	R/CAP	
6.	ETECH 831	T		VARIES	R	
7.	CMCET 832 Land Development	T		VARIES	E	
8.	CMCET 833 Estimating and Bidding Strategy	T		VARIES	E	
9.	CMCET 834 Advanced Construction Management	T		VARIES	E	
10.	CMCET 835 Advance Construction Structures	T		VARIES	E	
11.	ETECH 852 Integrated Design and Manufacturing Concepts	O		F	E	
12.	ETECH 882 Advanced Plastics Materials and Processes	T		S	E	
13.	PET 888 Design of Experiments	T		S	E	
14.	ETECH 895 Advanced Topics in Engineering Technology	T		F/S/R	E	
15.						
16.						
17.						
18.						
19.						
20.						

6. Support Course Information - Courses Offered by Other Departments

No.	Course No.	Course	Rationale (Why course?)	Comments (Critique)
1.	GRT 888	Product Design & Development		Taught by ETECH faculty
2.	GRT 899	Quantitative Decision Making		Taught by ETECH faculty
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

7. Sequence of Courses in Major

Sequence of Courses	Rationale for Sequence
ETECH 810 should be taken in last semester	Capstone course

8. Admission Requirements to Program

Requirements	Justification for Requirements
B.S in Engineering or Engineering Technology GPA 2.7/4.0	Needs background to be successful
International Students TOEFL 540	Courses taught in English

9. Program Advisement

a. Advisement Model Used:

b. Training Preparation of Advisors:
c. Advisement Link to Faculty Appraisal:

10. Evidence of Program Quality (May include instruments, etc. in appendices)

	Evidence of Quality	Yes or No	Description	Results
a.	Undergraduate Assessment Instrument	Yes	GPA	2/7/4.0
b.	Graduate Comprehensive Instrument	No		
c.	Evidence of Impact of Assessment/Comprehensives on the Curriculum/Program			
d.	Student Satisfaction Survey	Yes	One page survey	Excellent
e.	Graduate Satisfaction Survey	No		
f.	Employer Satisfaction Survey	No		
g.	Advisory Council Input	No		
h.	Placement of Graduates	Yes	Jobs in Engineering	Good
i.	Accreditation/Certification Reviews	No		
j.	Departmental Process for Course/Program Revision(s)	Yes	Graduate Council Approval	
k.	Advisement			
l.	Other:			
m.	Other:			

11. Program Summary

	Narrative
a. Strengths	<ul style="list-style-type: none">• Unique Program. Very few schools offer a Masters in Engineering Technology.• Excellent feedback from students on overall program.
b. Weakness	<ul style="list-style-type: none">• Do not offer electronics as a specialty area.• Needs more graduate courses in mechanical and manufacturing.
c. Plans for Improvement	<ul style="list-style-type: none">• Requested additional faculty in electronics.• Review curriculum to determine additional classes.

