SURVEY OF ENGINEERING PROGRAM CHANGES

(SPONSORED BY ABET)

You	have	been s	electe	ed to	compl	ete th	is sur\	/ey	because	you	admin	ister a	at lea	ast c	one o	f the	fol	lowir	ng e	engin	eerir	ng p	rogr	ams
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- Aerospace
- Chemical
- Civil
- Computer
- Electrical
- Industrial
- Mechanical

While you may also administer another program, this survey focuses only on those programs listed above.

Instructions: If circles are provided, please completely fill in the circle next to your answer If

		Not At	Very
4. How important are the follo	wing in assessing learn	ning outcomes in your program?	
O Policy requires passing	the FE	O Policy requires passing the FE	
O Policy requires taking the	e FE	 Policy requires taking the FE 	
O Policy is to recommend	taking the FE	O Policy is to recommend taking the FE	
O No policy or position		 No policy or position 	
10 years ago:		Currently:	
3. What is your program's po	licy on the Fundamenta	als of Engineering (FE) Examination? (Check one in	each row.
O Policy is to require for g	raduation		
O Policy is to recommend			
O No policy, but most fact	•		
O No policy or position			
2. What is your program's po	iicy on co-op experient	ces for students?	
2. What is your program's ma	liov on oo on ovneriens	and for students?	
O Third year or later			
O End of second year			
O End of first year			
O Upon entrance to the in	stitution		

Importance of:	Not At All	Slightly	Moderately	Very Important
FE data	0	0	0	0
GRE scores	0	0	0	0
Locally-designed instrument(s)	0	0	0	0

5. Over the past decade how, if at all, has your program's emphasis on these curricular topics changed?

Change in program emphasis on:	Significant Decrease	Some Decrease	No Change	Some Increase	Significant Increase
Engineering design	0	0	0	0	0
Interpersonal/group communication	0	0	0	0	0
Engineering in global and social contexts	0	0	0	0	0
Professional ethics	0	0	0	0	0
Professional responsibility	0	0	0	0	0
Technical writing	0	0	0	0	0
Verbal communication	0	0	0	0	0
Knowledge of contemporary issues	0	0	0	0	0
Experimental methods	0	0	0	0	0
Foundational math	0	0	0	0	0
Basic science	0	0	0	0	0
Basic engineering science	0	0	0	0	0
Project management	0	0	0	0	0
Use of modern engineering tools	0	0	0	0	0
Engineering problem solving	0	0	0	0	0
Teamwork	0	0	0	0	0
Importance of life-long learning	0	0	0	0	0
Other (please specify)	0	0	0	0	0

6. To what extent were these changes (listed in question 5 above) influenced by each of the following?

Extent of influence on curricular change:	Not At All	Slightly	Moderately	A Great Deal
Collective faculty decision	0	0	0	0
Change in program goals	0	0	0	0
Organizational restructuring	0	0	0	0
ABET accreditation	0	0	0	0
Student feedback	0	0	0	0
Increased resources	0	0	0	0
Decreased resources	0	0	0	0
Industry/employer feedback	0	0	0	0
Decision by Dean or other administrator	0	0	0	0
NSF coalition	0	0	0	0
Research on undergraduate engineering education	0	0	0	0
My own initiative	0	0	0	0

7. To what extent, if at all, has ABET's EC2000 influenced your program's emphasis on these curricular components?

Change in program emphasis on:	Not At All	Slightly	Moderately	A Great Deal
Required courses in science	0	0	0	0
Required courses in engineering	0	0	0	0
Elective courses in major	0	0	0	0
Required courses in social sciences and/or humanities	0	0	0	0
Design course(s)	0	0	0	0
Internships	0	0	0	0
Program-related out-of-class activities (e.g. design competition, field trips)	0	0	0	0
Other (please specify)	0	0	0	0

8. To what extent do you agree or disagree with the following statements about **current curriculum planning and revision practices** in your program?

Statements about curriculum planning and revision:	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
Faculty in my program periodically review the program mission and objectives.	0	0	0	0	0
Faculty in my program generally resist new curricular ideas or experimentation.	0	0	0	0	0
Program faculty collaborate on curriculum development and revision.	0	0	0	0	0
The program curriculum is a frequent agenda item at program meetings.	0	0	0	0	0
Curriculum revisions are typically made in response to some problem rather than through a periodic planning process.	0	0	0	0	0
Curriculum planning in my program is systematic.	0	0	0	0	0
Curriculum decisions are usually based on opinions rather than data.	0	0	0	0	0
Faculty are knowledgeable about the program's curriculum beyond their own courses.	0	0	0	0	0

9. What proportion of your program faculty generally supports the following activities?

Proportion of faculty who support:	Almost None	Less than Half	About Half	More than Half	Almost All
Ongoing, systematic efforts to improve program quality	•	0	0	0	0
Curriculum/course development and revision	0	0	0	0	0
Assessment of student learning	0	0	0	0	0
Greater emphasis on students' "soft" skills (e.g. teamwork, communication)	0	0	0	0	0
Using assessment information in decision-making	0	0	0	0	0

10. Over the past decade, how has the emphasis your program gives to teaching changed?

Change in program emphasis on teaching in:	Significant Decrease	Some Decrease	No Change	Some Increase	Significant Increase
Faculty recruiting and hiring	0	0	0	0	0
Faculty promotion and tenure	0	0	0	0	0
Faculty salary and merit increases	0	0	0	0	0
Professional development activities	0	0	0	0	0

11. Over the past decade, have there been any changes in your program's use of assessment information for:

Change in program's use of assessment data for:	Significant Decrease	Some Decrease	No Change	Some Increase	Significant Increase
Ongoing, systematic efforts to improve program quality	0	0	0	0	0
External funders/sponsors	0	0	0	0	0
Internal budget allocations	0	0	0	0	0
ABET accreditation	0	0	0	0	0

If you have gone through an EC2000 re EC2000 increased your knowledge of the					am.		
○ No EC2000 review ——> Go to	ŭ			, , ,			
○ Not at all							
○ Some							
○ Moderately							
O A great deal							
3. If weaknesses were identified, which o	ne of the fo	ollowing bes	t describ	es your pro g	gram's fi	nancial res	ponse?
O No weaknesses identified							
O No financial action taken							
O Secured additional institutional fund	ds to addre	ss weaknes	ss(es)				
O Reallocated funds to address weak	ness(es)						
O Raised external funds to address w	/eakness(e	s)					
4. How adequate are resources to sustain	and suppo	ort EC2000	accredita	ation?			
O Not adequate							
○ Adequate							
O More than adequate							
5. Over the past decade, approximately changed?	how much	have the fol	llowing in	istitutional re	sources	for your pr	ogram
5. Over the past decade , approximately l		have the fol	llowing in	estitutional re		for your pr	ogram
5. Over the past decade , approximately l			llowing in				ogram
5. Over the past decade , approximately be changed? Approximate change in program		Decrease		- No		Increase	
5. Over the past decade, approximately changed? Approximate change in program resources over the past 10 years:		Decrease 5 - 10%	< 5%	No Change	< 5%	Increase 5 - 10%	>10%
5. Over the past decade, approximately changed? Approximate change in program resources over the past 10 years: Instructional staff	>10%	Decrease 5 - 10%	< 5%	No Change	< 5%	Increase 5 - 10%	>10%
5. Over the past decade, approximately changed? Approximate change in program resources over the past 10 years: Instructional staff Support staff	>10% O	5 - 10%	< 5%	No Change	<5% •	5 - 10%	>10%
5. Over the past decade, approximately changed? Approximate change in program resources over the past 10 years: Instructional staff Support staff Instructional resources	>10% O O	5 - 10%	< 5%	No Change	< 5%	5 - 10%	>10%
5. Over the past decade, approximately changed? Approximate change in program resources over the past 10 years: Instructional staff Support staff Instructional resources Institutional funds for innovations	>10% O O O	5 - 10%	< 5%	No Change	< 5%	5 - 10%	>10%
5. Over the past decade, approximately changed? Approximate change in program resources over the past 10 years: Instructional staff Support staff Instructional resources Institutional funds for innovations Faculty professional development	>10%	5 - 10%	<5%	No Change	<5%	5 - 10%	>10%
Approximate change in program resources over the past 10 years: Instructional staff Support staff Instructional resources Institutional funds for innovations Faculty professional development Research resources	>10% O O O O	5 - 10%	< 5%	No Change	<5%	5 - 10%	>10% O O O O O
Approximate change in program resources over the past 10 years: Instructional staff Support staff Instructional resources Institutional funds for innovations Faculty professional development Research resources	>10%	5 - 10%	<5%	No Change	<5%	5 - 10%	>10%

O Very Familiar

17. How long have you been administratively responsible, to some degree, for your undergraduate engineering program?	Years
18. How many years have you been employed by your current institution?	Years
19. How many years have you been teaching as an engineering faculty member?	Years
20. What is your gender? O Male O Female	
21. What is your ethnic background? (Indicate all that apply.)	
O White/European American	
O Black/African American	
O Hispanic or Latino	
○ Asian	
O American Indian or Alaska Native	
O Hawaiian or other Pacific Islander	
Other (please specify)	
22. What is the major field of your highest degree?	
O Aerospace Engineering	
O Chemical Engineering	
○ Civil Engineering	
O Computer Engineering	
O Electrical Engineering	
O Industrial Engineering	
Mechanical Engineering	
Other (please specify)	

. Please provide any additional comments that will help us understand changes in your undergraduate engineering program.

Thank you for your participation!

Please return your completed survey in the prepaid envelope provided.