

# **ABET: Criteria for Accrediting Engineering Programs** 2013 CIRP Surveys

#### Introduction

Accreditation is an assurance that the professionals that serve us have a solid educational foundation and are capable of leading the way in innovation, emerging technologies, and in anticipating the welfare and safety needs of the public.

--http://www.abet.org/why-accreditation-matters/ retrieved August 12, 2012

For more than 45 years, CIRP surveys have helped institutions understand and demonstrate their strengths as well as focus improvement efforts. Our survey program asks students for information as they begin college on the CIRP Freshman Survey (TFS), at the end of their first year on the Your First College Year Survey (YFCY), in their sophomore and junior years with the Diverse Learning Environments (DLE) survey, and at the end of their senior year on the College Senior Survey (CSS). Faculty are asked for their perspective on many of the same outcomes every three years on the HERI Faculty Survey. While ABET accreditation is voluntary, we know the information programs gain from going through the process can be valuable in delivering the best possible education to students. CIRP surveys are comprehensive in that they cover a wide variety of topic areas relevant to the college experience. Used together, CIRP surveys measure outcomes and tie those outcomes to activities in which students engage, program practices, and the overall climate on campus. Putting these together longitudinally can help programs illustrate the complex issues related to student success and improve the student experience.

#### **How Can CIRP Surveys be Useful in the ABET Process?**

Specialized accreditation agencies like ABET are intentionally and specifically emphasizing student learning outcomes, and examining the processes and practices programs have in place to promote, assess and enhance student learning. Results from CIRP surveys can demonstrate the impact of curriculum and pedagogy as well as student expectations and experiences on student learning, and suggest practices that contribute to success. This guide provides suggestions for utilizing CIRP survey results in the ABET accreditation process to address student learning outcomes, program educational objectives, the curriculum, as well as the roles of faculty and facilities in demonstrating continuous improvement.

 Because CIRP surveys are comprehensive, they can be used to address more than student learning. They allow a program to fully explore the broader picture of program impact while

- linking together the various aspects of the program—faculty, facilities, curriculum, and technology--that come together to foster student learning and success.
- Used longitudinally, CIRP survey results illustrate that a program measures success based on learning outcomes not teaching inputs, and is serious about advancing the quality of its programs and preparing students who are ready to enter the profession.
- Faculty Survey addresses many of the same issues as the student surveys, including the
  participation in specific learning activities, importance of specific areas of student learning,
  nature and frequency of student/faculty interaction, and importance of educational and program
  goals. Pairing these results provides additional context to student results, and can be used as
  evidence of areas of strength as well as to deepen discussions of areas that present opportunities
  for improvement.
- CIRP surveys provide information on aspects of a broad range of program experiences that can help programs identify ABET student learning outcomes as well as how students are performing in program educational objectives.
- Institutions have the ability to compare their performance with comparison groups and national norms on individual items and relevant CIRP Constructs, providing important context for discussions of program goals and objectives.
- Results from CIRP surveys can be used to examine assumptions about the student educational experience and how students use the institution's resources for learning, growth and development.
- Programs can benchmark against themselves over time to examine trends or longitudinally to assess growth and development in their process of continuous improvement.

#### **CIRP in ABET Timelines**

Results from CIRP surveys are well-suited in all parts of the ABET accreditation process, including:

- Assessment Planning
- Self-Study
- On-Site Visit
- Due Process response

When and how often to gather evidence for use in the accreditation process are decisions each program will make for itself. The answers to these questions will vary depending on the needs of a given program, its institution and how they intend to use the results as evidence. Some institutions use CIRP results to establish a baseline for programs and other initiatives. Generally speaking, baseline data from three years preceding a review gives an institution ample time to analyze, interpret and disseminate results for the broad-based institutional process required as part of ABET accreditation. This also allows for follow up at appropriate times to demonstrate whether actions and programs are having their intended effect.

Many institutions have data from longitudinal administrations of CIRP surveys. Examining the results longitudinally allows programs to compare results over time and examine areas in which the student experience is changing. Results may also be used as evidence that the program has set appropriate goals, is carefully monitoring its student learning outcomes and has integrated data into decision-making processes.

ABET accreditation may not coincide with regional accreditation or other priorities (e.g., strategic planning) that drive survey participation. ABET review committees will want to collaborate with campus constituencies who have input into institutional decisions about CIRP participation to establish

participation timelines, develop a strategy for the sampling of engineering students (if necessary, see below) and ensure baseline data.

Sampling. Many institutions participating in CIRP surveys administer the surveys to a census of their students (e.g., all first year students, all graduating seniors), however some institutions administer CIRP surveys to a random sample of the population of eligible students (25% of graduating seniors). One important issue for schools using CIRP surveys in ABET accreditation is making sure enough engineering students are surveyed to ensure valid results. Institutions can choose to oversample the engineering population by simply increasing the percentage of engineering students in their sample. While this seems like a straightforward approach, individual programs will need to determine how best to do this. Identifying first-year engineering students may be complicated, especially if students have not yet declared their major. The program might elect to include all students who have enrolled in specific classes, or any student who has identified themselves as interested in engineering, for example.

#### **Data Services**

CIRP offers specialized data services that allow for more specific analyses than just comparing students at your institution with those in your comparison groups. For example, institutions seeking ABET accreditation in might wish to compare engineering students at your institution with engineering students in similar programs at similar institutions. There are additional fees associated with data services. More information can be found at <a href="http://www.heri.ucla.edu/dsdownloads\_reports.php">http://www.heri.ucla.edu/dsdownloads\_reports.php</a>

#### **Forming a Consortium**

Engineering programs that use CIRP survey results to support their ABET accreditation may want to explore forming a consortium, a group of schools participating in CIRP surveys in the same administration cycle that agree to share comparative, aggregated data among the group. For more information on forming a consortium, please see <a href="http://www.heri.ucla.edu/dsdownloads\_special.php">http://www.heri.ucla.edu/dsdownloads\_special.php</a>

#### Using CIRP Surveys in ABET Engineering Criteria

Every program approaches ABET accreditation differently, taking into account the mission, goals, practices and policies in place within the program. An important part of the accreditation process is to understand how practices and evidence currently in use can be linked to ABET Criteria.

In preparing this guide, CIRP staff, working in conjunction with several institutions that have undergone ABET accreditation in engineering at the undergraduate level, reviewed ABET Criteria and aligned CIRP survey items that closely corresponded. The goal is to facilitate the use of data and CIRP survey results not only as evidence of how well a program prepares students to enter the profession, but as an element in continuous improvement activities.

This guide is not a toolkit or a comprehensive codebook for mapping CIRP surveys to ABET Criteria. It is a guide to aid institutions in organizing information already available, and to facilitate future planning. Looking systematically at CIRP survey results aligned with ABET Criteria provides an opportunity for discussion about what the results mean for the program, what other evidence can be brought to bear, and what additional information is necessary to further improvement efforts and planning for the future. Both individual survey items and CIRP Constructs can be used to demonstrate and document program effectiveness. When they are presented in context with additional measures of student learning, such as

portfolios, direct assessment, and results from student focus groups or interviews, these results will be most meaningful to program improvement efforts and most persuasive to a visiting team in demonstrating a deep and sustained commitment to student learning.

The following CIRP survey items are mapped to the ABET General Criteria for Baccalaureate Level Programs and do not address specialized program criteria for each engineering subdicsipline.

All programs seeking accreditation from the Engineering Accreditation Commission of ABET must demonstrate that they satisfy all of the following General Criteria for Baccalaureate Level Programs.

				estion placement					
Criterion 1. Students	Item	TFS	YFCY	DLE	CSS	FAC			
Student performance must be	Interacted with: Faculty during office hours		3						
evaluated. Student progress must be	Interacted with: Graduate students/teaching assistants		3						
monitored to foster success in	How often: Academic advising		7						
attaining student outcomes, thereby	How often: Received from your professor advice or guidance about		23		24				
enabling graduates to attain program	your educational program		23						
educational objectives. Students must	Utilized: Academic advising			8					
be advised regarding curriculum and	How often: Career counseling and advising			8					
career matters.									
The program must have and enforce	Talking to a counselor/academic advisor			TM					
policies for accepting both new and	Before transferring: I received helpful advice about the right courses			TR4					
transfer students, awarding	to complete the requirements to transfer								
appropriate academic credit for	Before transferring: The guidelines for transferring to this institution			TR4					
courses taken at other institutions,	were easy to understand			THE A					
and awarding appropriate academic	At this college: Campus administrators care about what happens to			TR4					
credit for work in lieu of courses	transfer students			TD 4					
taken at the institution. The program	At this college: I have received helpful advice about how to succeed			TR4					
must have and enforce procedures to ensure and document that students	here as a transfer student			TD 4					
	Figure out which requirements I need to graduate			TR4					
who graduate meet all graduation requirements.	Counselors make transfer a priority at this institution			TR2					
requirements.	Met with a community college counselor about transferring			TR2					
	Talked with a transfer admissions counselor from a four-year			TR2					
	Discussed my academic goals with faculty			TR2					
	How often: Met with an advisor/counselor about your career plans				9				
	Satisfaction: Academic advising				15				
	Satisfaction: Career counseling and advising				15				
	Advising and counseling of students					22			

TFS = The Freshman Survey; YFCY = Your First College Year; DLE = Diverse Learning Environments Survey; CSS = College Senior Survey; FAC = The HERI Faculty Survey

The DLE has five modules: TR2 = Climate for Transfer at Two-Year Institutions; TM = Transition to Major; TR4 = Climate for Transfer Students at Four-Year Institutions; IGR = Intergroup Relations; CC = Classroom Climate

The TFS is administered at the beginning of the freshman year; The YFCY is administered at the end of the first year; The DLE is administered during the second and/or third years; The CSS is administered at the end of the senior year; The FAC is administered every three years to faculty.

All programs seeking accreditation from the Engineering Accreditation Commission of ABET must demonstrate that they satisfy all of the following General Criteria for Baccalaureate Level Programs.

		Questi						
Criterion 2. Program Educational Objectives	Item	TFS	YFCY	DLE	CSS	FAC		
The program must have published								
program educational objectives that								
are consistent with the mission of the								
institution, the needs of the								
program's various constituencies, and								
these criteria. There must be a								
documented and effective process,								
involving program constituencies, for								
the periodic review and revision of								
these program educational objectives.						i		
TFS = The Freshman Survey; YFCY = Your First C	College Year; DLE = Diverse Learning Environments Survey; CSS = College Senior Sur	vey; FAC	C = The $1$	HERI Fa	culty Sur	vey		

documented and effective process,						
involving program constituencies, for						
the periodic review and revision of						
these program educational objectives.						
TFS = The Freshman Survey; YFCY = Your First C	College Year, DLE = Diverse Learning Environments Survey; CSS = College Senior Su	rvey; FA	C = The $B$	HERI Fa	culty Surv	vey
The DLE has five modules: TR2 = Climate for Tran Intergroup Relations; CC = Classroom Climate	nsfer at Two-Year Institutions; TM = Transition to Major; TR4 = Climate for Transfer	Students	at Four-	Year Insti	tutions; I	GR =
	hman year; The YFCY is administered at the end of the first year; The DLE is administr; The FAC is administered every three years to faculty.	tered dur	ing the se	econd and	l/or third	l years;
NOTES:						

All programs seeking accreditation from the Engineering Accreditation Commission of ABET must demonstrate that they satisfy all of the following General Criteria for Baccalaureate Level Programs.

Criterion 3. Student Outcomes: The program must have documented student outcomes that prepare graduates to attain the program educational objectives. Student outcomes are outcomes (a) through (k) plus any additional outcomes that may be articulated by the

		Question placement					
Criterion 3a.	Item	TFS	YFCY	DLE	CSS	FAC	
An ability to apply knowledge of	Integrate skills and knowledge from different sources and experiences	34	1	19	2	18	
mathematics, science, and	That your courses inspired you to think in new ways		5				
	Rate yourself: Mathematical ability	38	8	17	18		
	Perceived growth: Critical thinking skills	39	17		14		
	Perceived growth: Problem-solving skills	39	17		14		
	How often: Apply/ied concepts from courses to everyday life/real life situations		23	13	17		
	How often: Worked on independent study projects				9		
	Completed a culminating experience for your degree (e.g., capstone course/project, thesis, comp exam)				10		
	Received from your professor: An opportunity to work on a research project				24		
	To get training for a specific career	37					
	Engaged in academic research that spans multiple disciplines					10	
	Instructional techniques/methods: Using real-life problems					19	
	Undergraduate goals: Develop ability to think critically					21	
	Undergraduate goals: Prepare students for employment after college					21	
	Undergraduate goals: Develop creative capacities					21	
Criterion 3b.							
An ability to design and conduct	Support your opinions with a logical argument	34	1	19	2	18	
experiments, as well as to analyze	Seek solutions to problems and explain them to others	34	1	19	2	18	
and interpret data.	Evaluate the quality or reliability of information you received	34	1	19	2	18	
	Seek alternative solutions to a problem	34	1	19	2	18	
	Integrate skills and knowledge from different sources and experiences	34	1	19	2	18	
	That your courses inspired you to think in new ways		5				
	Perceived growth: Ability to conduct research	39	17				
	Perceived growth: Critical thinking skills	39	17				
	How often: Worked on a professor's research project		23		9		
	How often: Worked on independent study projects				9	į	
	Participated in an undergraduate research program				10		
	Completed a culminating experience for your degree (e.g., capstone course/project, thesis, comp exam)				10		
	- · · · · · · · · · · · · · · · · · · ·				24		
	To get training for a specific career	project					
	Engaged undergraduates on <u>your</u> research project					10	
	Worked with undergraduates on a research project					10	
	Taught a capstone course					10	
	Supervised an undergraduate thesis					10	
	Instructional techniques/methods: Experiential learning/Field studies					19	

		Question placemen			t	
Criterion 3b, Cont.						
	Instructional techniques/methods: Reflective writing/journaling					19
	Instructional techniques/methods: Using real-life problems					19
	Undergraduate goals: Develop ability to think critically					21
	Undergraduate goals: Prepare students for employment after college					21
	Undergraduate goals: Develop creative capacities					21
	Undergraduate goals: Help students evaluate the quality and reliability					21
_	of information					
Criterion 3c.			YFCY		CSS	FAC
An ability to design a system,	Integrate skills and knowledge from different sources and experiences	34	1	19	2	18
component, or process to meet desired needs within realistic	That your courses inspired you to think in new ways		5			
constraints such as economic,	Rate yourself: Risk-taking	38	8		18	
environmental, social, political,	Rate yourself: Creativity	38	8		18	
ethical, health and safety,	Tolerance of others with different beliefs	32	11	7	20	
• •	Openness to having my own views challenged	32	11	7	20	
	Perceived growth: Critical thinking skills		17			
	Perceived growth: Problem-solving skills	39	17		14	
	How often: Apply/ied concepts from courses to everyday life/real		23	13	17	
	life situations					
	How often: Worked on independent study projects				9	
	Participated in an undergraduate research program				10	
	Completed a culminating experience for your degree (e.g., capstone				10	
	course/project, thesis, comp exam)  Received from your professor: An opportunity to apply classroom learning to "real life" issues				24	
	Received from your professor: An opportunity to work on a research				24	
	project	25				
	To get training for a specific career					
	Importance: Adopting "green" practices to protect the environment	46				
	Engaged in academic research that spans multiple disciplines					10
	Taught a capstone course					10
	Supervised an undergraduate thesis					10
	Instructional techniques/methods: Using real-life problems					19
	Undergraduate goals: Develop ability to think critically					21
	Undergraduate goals: Prepare students for employment after college					21
	Undergraduate goals: Develop creative capacities					21
	Undergraduate goals: Help students evaluate the quality and reliability of information					21
	Undergraduate goals: Teach students tolerance and respect for different beliefs					21
Criterion 3d.						
An ability to function on	Rate yourself: Competitiveness	39	8			
multidisciplinary teams.	Rate yourself: Cooperativeness	38	8		18	
	Rate yourself: Leadership ability	38	8		18	
	Ability to work cooperatively with diverse people	32	11	7	20	
	How often: Studied with other students		12		9	
	How often: Perfored community service as part of a class		12		9	

		Question placemen			cemen	t
Criterion 3d, Cont.						
	How often: Performed volunteer work	31	12			
	I have effectively led a group to a common purpose		14		19	
	Perceived growth: Ability to work as part of a team		17			
	Perceived growth: Leadership ability		17		14	
	Experiences with other racial/ethnic groups: Studied or prepared for class		20			
	Participated in leadership training		22	27	10	
	Been a leader in an organization		22		10	
	How often: Discussed course content with students outside of class		23			İ
	How often: Worked with classmates on group projects: During class		23		9	
	How often: Worked with classmates on group projects: Outside of class		23		9	
	How often: Participated in study groups			8		
	Instructors: Encourage students from diverse backgrounds to work			CC		İ
	together			65		
	How many courses involve: Group projects			CC		
	Participated in an undergraduate research program				10	
	Completed a culminating experience for your degree (e.g., capstone course/project, thesis, comp exam)				10	
	Participated in: Student government				10	
	Work with other students on group projects	31				
	Advised student groups involved in service/volunteer work					10
	Evaluation methods: Student evaluations of each others' work					19
	Instructional techniques/methods: Cooperative learning (small groups)					19
	Instructional techniques/methods: Group projects					19
	Instructional techniques/methods: Community service as part of					19
	Institutional priority: To facilitate student involvement in community					30
	Institutional priority: To provide resources for faculty to engage in					30
	Institutional priority: To create and sustain partnerships with surrounding communities					30
	Institutional priority: To develop leadership ability among students					30
Criterion 3e.						
An ability to identify, formulate, and	Support your opinions with a logical argument	34	1	19	2	18
solve engineering problems.	Seek solutions to problems and explain them to others	34	1	19	2	18
	Evaluate the quality or reliability of information you received	34	1	19	2	18
	Integrate skills and knowledge from different sources and experiences	34	1	19	2	18
	Perceived growth: Critical thinking skills	39	17			
	Perceived growth: Ability to conduct research		17			
	Perceived growth: Problem-solving skills	39	17		14	
	How often: Apply/ied concepts from courses to everyday life/real		23	13	17	
	How often: Worked on a professor's research project		23		9	
	How often: Use different points of view to make an argument			13		
	Seek alternative solutions to a problem			19		
	How often: Worked on independent study projects				8	
	Participated in an undergraduate research program				10	

			Questi	on plac	cemen	t
Criterion 3e, Cont.						
	Completed a culminating experience for your degree (e.g., capstone				10	
	course/project, thesis, comp exam) Received from your professor: An opportunity to work on a research				24	
	Received from your professor. An opportunity to work on a research				24	
	learning to "real life" issues				24	İ
	To gain a general education and appreciation of ideas					
	Engaged in academic research that spans multiple disciplines					10
	Taught a capstone course					10
	Supervised an undergraduate thesis					10
	Instructional techniques/methods: Reflective writing/journaling					19
	Instructional techniques/methods: Using real-life problems					19
	Undergraduate goals: Develop ability to think critically					21
	Undergraduate goals: Prepare students for employment after college					21
	Undergraduate goals: Help students evaluate the quality and reliability					21
	of information					
Criterion 3f.						
An understanding of professional and	Take a risk because you feel you have more to gain	34	1	19	2	18
ethical responsibility.	Accept mistakes as part of the learning process	34	1	19	2	18
	That your courses inspired you to think in new ways		5			
	Rate yourself: Self-understanding	38	8		18	
	Ability to discuss and negotiate controversial issues	32	11	7	20	
	Tolerance of others with different beliefs		11	7	20	
	Openness to having my own views challenged		11	7	20	
	Ability to see the world from someone else's perspective		11	7	20	
	How often: Asked a professor for advice after class		12			
	Perceived growth: Understanding of the problems facing your community	39	17			
	Perceived growth: Understanding of national issues	39	17		14	į
	Perceived growth: Understanding of global issues	39	17		14	
	Importance: Developing a meaningful philosophy of life	46	19		23	20
	How often: Feel challenged to think more broadly about an issue			13		
	How often: Recognize the biases that affect your own thinking			13		
	How often: Critically evaluated your own position on an issue			13		
	It is hard to listen to points of view that challenge my values			IGR		
	Instructors: Teach students tolerance and respect for different beliefs			CC		
	Undergraduate goals: Prepare students for employment after college					21
	Undergraduate goals: Develop moral character					21
	Undergraduate goals: Help students develop personal values					21
	Undergraduate goals: Enhance students' self-understanding					21
	Undergraduate goals: Instill in students a commitment to community					21
	Undergraduate goals: Engage students in civil discourse around controversial issues					21
	Undergraduate goals: Teach students tolerance and respect for					21

			Questi	uestion placement			
Criterion 3g.							
An ability to communicate effectively.	Ask questions in class		1	19	2	18	
	Support your opinions with a logical argument	34	1	19	2	18	
	Seek solutions to problems and explain them to others	34	1	19	2	18	
	Revise your papers to improve your writing	34	1	19	2	18	
	Integrate skills and knowledge from different sources and experiences	34	1	19	2	18	
	Rate yourself: Public speaking ability	38	8		18		
	Rate yourself: Writing ability	38	8		18		
	Ability to discuss and negotiate controversial issues	32	11	7	20		
	How often: Publicly communicated my opinion about a cause (e.g., blog, email, petition)	31	12	25	8		
	Importance: Writing original works (poems, novels, etc.)	46	19		23		
	Experiences with other racial/ethnic groups: Had meaningful and		20	10	21		
	honest discussions about race/ethnic relations outside of class						
	Experiences with other racial/ethnic groups: Had intellectual discussions outside of class		20	10			
	Experiences with other racial/ethnic groups: Studied or prepared for		20				
	class How often: Contributed to class discussions		22		0		
			23	0	8		
	How often: Discussed course content with students outside of class		23	8	8		
	How often: Worked with classmates on group projects: During class		23				
	How often: Worked with classmates on group projects: Outside of class		23				
	How often: Made a presentation in class		23		8		
	How often: Use different points of view to make an argument			13			
	I feel comfortable sharing my own perspectives and experiences in			CC			
	class						
	I don't feel comfortable contributing to class discussions			CC			
	How many courses involve: Class discussions			CC			
	How many courses involve: Student presentations			CC			
	How many courses involve: Multiple short papers			CC			
I	How many courses involve: One or more research papers of 10+ pages			CC			
	How many courses involve: Multiple drafts of written work			CC			
	Improve my English reading, writing, or speaking skills			TR2			
	Perceived growth: Foreign language ability				2		
	Perceived growth: Interpersonal skills				2		
	How often: Challenged a professor's ideas in class				7		
	How often: Took a class that required one or more 10+ page papers				7		
	How often: Took a class that required multiple short papers				7		
	Communicate/d regularly with your professors	47			7		
	Work with other students on group projects						
	Evaluation methods: Student presentations					19	
	Evaluation methods: Term/research papers					19	
	Instructional techniques/methods: Class dicussions					19	
	Instructional techniques/methods: Recitals/Demonstrations					19	
	Instructional techniques/methods: Reflective writing/journaling					19	
	Instructional techniques/methods: Multiple drafts of written work					19	
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		(	Question placement			
Criterion 3g, Cont.						
	Undergraduate goals: Promote ability to write effectively					21
	Undergraduate goals: Engage students in civil discourse around					21
Criterion 3h.	controversial issues					
The broad education necessary to	Rate yourself: Understanding of others	38	8		18	
understand the impact of engineering	,	32	11	7	20	
solutions in a global, economic,	Tolerance of others with different beliefs	32	11	7	20	
environmental, and societal context.	Openness to having my own views challenged		11	7	20	
	How often: Socialized with someone of another racial/ethnic group	31	12	/	20	
	How often: Socialized with someone of another racial/ethnic group  How often: Performed volunteer work	31	12			
		31				
	My college experiences have exposed me to diverse opinions, cultures, and values		14			
	Perceived growth: Knowledge of people from different races/cultures	39	17		14	
	Perceived growth: General knowledge	39	17		14	
	Perceived growth: Understanding of the problems facing your community	39	17		14	
	Perceived growth: Understanding of national issues	39	17		14	
	Perceived growth: Understanding of global issues	39	17		14	
	Importance: Improving my understanding of other countries and cultures	46	19		23	
	Importance: Developing a meaningful philosophy of life	46	19		23	20
	Experiences with other racial/ethnic groups: Had meaningful and honest discussions about race/ethnic relations outside of class		20	10	21	
	Have/had a roommate of a different ethnicity	46	22		10	
	How often: Apply/ied concepts from courses to everyday life/real life situations		23	13	17	
	Interact with someone: From a country other than your own			12		
	Interact with someone: From a religion different from your own			12		
	Interact with someone: From a socioeconomic class different from your own			12		
	Interact with someone: Of a sexual orientation different from your own			12		
	Interact with someone: With a disability			12		
	Instructors: Encourage students to contribute different perspectives in class			CC		
	Instructors: Include diverse perspectives in class discussions/assignments			CC		
	Perceived growth: Ability to get along with people of different races/cultures				14	
	Taken an ethnic studies course				10	
	Taken a women's studies course				10	
	Attended a racial/cultural awareness workshop				10	
	Participate in a study abroad program	47			10	
	I am interested in seeking information about current social and political issues				19	
	To gain a general education and appreciation of ideas	37				
	To make me a more cultured person	37				
	To get training for a specific career	37				

			Questi	on plac	emen	t
Criterion 3h, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	To prepare myself for graduate or professional school	37				
	Importance: Adopting "green" practices to protect the environment	46				
	Socialize with someone of another racial/ethnic group	47				
	Engaged in academic research that spans multiple disciplines					10
	Instructional techniques/methods: Using real-life problems					19
	Undergraduate goals: Prepare students for employment after college					21
	Undergraduate goals: Help students develop personal values					21
	Undergraduate goals: Instill in students a commitment to community service					21
	Undergraduate goals: Enhance students' knowledge of and					21
	appreciation for other racial/ethnic groups					24
	Undergraduate goals: Teach students tolerance and respect for different beliefs					21
	Institutional priority: To help students learn how to bring about					30
	change in society					
	Institutional priority: To develop an appreciation for multiculturalism					30
Criterion 3i.						
A recognition of the need for, and an	Look up scientific research articles and resources	34	1	19	2	18
ability to engage in life-long learning.	Explore topics on your own, even though it was not required for a class	34	1	19	2	18
	Accept mistakes as part of the learning process	34	1	19	2	18
	Integrate skills and knowledge from different sources and experiences	34	1	19	2	18
	Rate yourself: Academic ability	38	8	17	18	
	Ability to see the world from someone else's perspective	32	11			
	Tolerance of others with different beliefs	32	11	7	20	
	Openness to having my own views challenged	32	11	7	20	
	Ability to discuss and negotiate controversial issues	32	11	7	20	
	Ability to work cooperatively with diverse people	32	11	7	20	
	My college experiences have exposed me to diverse opinions,		14			
	cultures, and values	20	47		4.4	
	Perceived growth: General knowledge	39	17		14	
	Perceived growth: Understanding of the problems facing your community	39	17		14	
	Perceived growth: Understanding of national issues	39	17		14	
	Perceived growth: Understanding of global issues	39	17		14	
	How often: Critically evaluated your own position on an issue			13		
	Perceived growth: Preparedness for graduate or advanced education				14	
	Used an online instructional website (e.g., Khan Academy, Coursera)	31				
	to learn something on your own					
	To learn more about things that interest me	37				
	Engaged in academic research that spans multiple disciplines					10
	Undergraduate goals: Help students evaluate the quality and reliability of information					21

			Questi	on pla	cemen	t
Criterion 3j.						
A knowledge of contemporary issues.	How often: Worked on a local, state, or national political campaign	31	12	26	17	
	I am interested in seeking information about current social and political issues		14	6	19	
	Satisfaction: Relevance of coursework to everyday life		15		16	
	Importance: Keeping up to date with political affairs	46	19	11	23	20
	How often: Apply/ied concepts from courses to everyday life/real life situations		23	13	17	
	How often: Helped raise money for a cause or campaign			26	9	
	How often: Discussed politics			26		
	Received from your professor: An opportunity to apply classroom learning to "real life" issues				24	
	Undergraduate goals: Help students develop personal values					21
Criterion 3k.						
An ability to use the techniques,	Integrate skills and knowledge from different sources and experiences	34	1	18	2	18
skills, and modern engineering tools	That your courses inspired you to think in new ways		5			
necessary for engineering practice.	Rate yourself: Mathematical ability	38	8	17	18	
	Rate yourself: Computer skills	38	8	19	18	
	Manage your/my time effectively		9	TR4		
	Satisfaction: Relevance of coursework to future career plans		15		16	
	Perceived growth: Critical thinking skills	39	17		14	
	Perceived growth: Problem-solving skills	39	17		14	
	Perceived growth: Ability to conduct research	0,	17		- '	
	Importance: Becoming an authority in my field	46	19		23	20
	Importance: Becoming successful in a business of my own	46	19		23	20
	How often: Worked on a professor's research project	10	23		9	
	How often: Apply/ied concepts from courses to everyday life/real life situations		23	13	17	
	Joined a club or organization related to your major			27		
	Perceived growth: Manage your time effectively				14	
	Perceived growth: Preparedness for employment after college				14	
	Participated in an undergraduate research program					
	Completed a culminating experience for your degree (e.g., capstone course/project, thesis, comp exam)				10	
	Participated in: An internship program				10	
	Received from your professor: An opportunity to apply classroom					
	learning to "real life" issues				24	
	Received from your professor: An opportunity to publish				24	
	Importance: Opportunity for innovation			10 10 10 24		
	To get training for a specific career	37				
	To prepare myself for graduate or professional school	37				
	Collaborated with the local community in research/teaching					10
	Conducted research or writing focused on: International/global issues					10
	Engaged undergraduates on <u>vour</u> research project					10
	Worked with undergraduates on a research project					10
	Taught a capstone course					10
	Supervised an undergraduate thesis					10
	Received incentives to integrate new technology into your classroom					13

		Quest	tion pla	cemen	t
Criterion 3k, Cont.					
	Instructional techniques/methods: Electronic quizzes with immediate feedback in class				19
	Instructional techniques/methods: Using real-life problems				19
	Undergraduate goals: Prepare students for employment after college				21
	Undergraduate goals: Prepare students for graduate or advanced education				21
	Faculty are rewarded for their efforts to use instructional technology				20
·	College Year; DLE = Diverse Learning Environments Survey; CSS = College Senior Survey unsfer at Two-Year Institutions; TM = Transition to Major; TR4 = Climate for Transfer Studies			·	
0 0	eshman year; The YFCY is administered at the end of the first year; The DLE is administered ar; The FAC is administered every three years to faculty.	d during the	second an	nd/or thir	d yeai

		Question place			olacement			
Criterion 4. Continuous Improvement	Item	TFS	YFCY	DLE	CSS	FAC		
The program must regularly use								
appropriate, documented processes								
or assessing and evaluating the								
extent to which both the program								
educational objectives and the								
student outcomes are being attained.								
The results of these evaluations must								
be systematically utilized as input for								
the continuous improvement of the								
program. Other available information								
may also be used to assist in the								
continuous improvement of the								
program.								
	ollege Year; DLE = Diverse Learning Environments Survey; CSS = College Senior	Survey; FA	C = The $B$	HERI Fa	culty Su	rvey		
The DLE has five modules: TR2 = Climate for Tran Intergroup Relations; CC = Classroom Climate	sfer at Two-Year Institutions; TM = Transition to Major; TR4 = Climate for Transf	er Students	at Four-Y	Year Insti	tutions;	IGR =		
	nman year; The YFCY is administered at the end of the first year; The DLE is admin; The FAC is administered every three years to faculty.	nistered dur	ing the se	cond and	l/or thir	d years		
NOTES:								

All programs seeking accreditation from the Engineering Accreditation Commission of ABET must demonstrate that they satisfy all of the following General Criteria for Baccalaureate Level Programs.

Criterion 5. Curriculum: The curriculum requirements specify subject areas appropriate to engineering but do not prescribe specific courses. The faculty must ensure that the program curriculum devotes adequate attention and time to each component, consistent with the outcomes and objectives of the program and institution. The professional component must include:

		(	Questi	on plac	cemen	t
Criterion 5a.	Item	TFS	YFCY	DLE	CSS	FAC
One year of a combination of college	Seek solutions to problems and explain them to others	34	1	19	2	18
level mathematics and basic sciences	Revise your papers to improve your writing	34	1	19	2	18
(some with experimental experience)	Evaluate the quality or reliability of information you received	34	1	19	2	18
appropriate to the discipline. Basic sciences are defined as biological,	Seek alternative solutions to a problem	34	1	19	2	18
chemical, and physical sciences.	Look up scientific research articles and resources	34	1	19	2	18
	Seek feedback on your academic work	34	1	19	2	18
	How often: Asked a professor for advice after class		12		8	
	Perceived growth: Ability to conduct research		17			
	Taken an honors course		22		10	
	Taken a remedial or developmental course		22		10	
	Participated in an academic support program		22			
	How often: Work/ed on a professor's research project	47	23		9	
	Mostly online instruction			20		
	Not been able to get into the classes you need because they were full			21		
	Not been able to take the classes you need because they were not			21		
	offered/were cancelled					
	Courses at another institution: To fulfill degree requirements			24		
	Courses at another institution: To complete my degree quicker			24		
	Courses at another institution: Courses I needed to take were not			24		
	offered at this college Courses at another institution: To take a class to explore my interests			24		
	Courses at another institution: To earn a degree or certificate that is			24		
	not offered at this college			21		
	Taking a variety of classes from different programs/majors			TM		
	I had expected to get better grades than the grades I have earned so far			TM		
	How many courses involve: Lab work			CC		
	Figure out which courses count towards your goals			TR2		
	Schedule classes for next semester			TR2		
	Complete course pre-requisites for an intended major			TR2		
	How often: Took a class that required one or more 10+ page papers				9	
	How often: Took a class that required multiple short papers				9	
	How often: Made a presentation in class				9	
	Satisfaction: Courses in your major field				16	
	Satisfaction: Class size				16	
	Used an online instructional website (e.g., Khan Academy, Coursera)					
	to learn something on your own Part-time instructors: Are primarily responsible for introductory					2
	classes					4.0
	Engaged undergraduates on <u>your</u> research project					10

		(	Questi	on plac	cemen	t
Criterion 5a, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	Worked with undergraduates on a research project					10
	How many courses are you teaching: Course required for an					11
	undergraduate major					
	Undergraduate goals: Help master knowledge in a discipline					21
	Institutional priority: To promote the intellectual development of					30
	students					
Criterion 5b.						
One and one-half years of	Seek solutions to problems and explain them to others	34	1	19		18
engineering topics, consisting of	Revise your papers to improve your writing	34	1	19		18
engineering sciences and engineering	Evaluate the quality or reliability of information you received	34	1	19		18
design appropriate to the student's	Seek alternative solutions to a problem	34	1	19		18
field of study. The engineering sciences have their roots in	Seek feedback on your academic work	34	1	19		18
mathematics and basic sciences but	Integrate skills and knowledge from different sources and experiences	34	1	19		18
carry knowledge further toward	That courses inspired you to think in new ways		5	17		10
creative application. These studies	* '				0	
provide a bridge between	How often: Asked a professor for advice after class		12		9	
mathematics and basic sciences on	Perceived growth: Knowledge of a particular field or discipline		17		14	
the one hand and engineering	Perceived growth: Ability to conduct research		17			
practice on the other. Engineering	Importance: Developing a meaningful philosophy of life	46	19		23	20
design is the process of devising a	Taken an honors course		22		10	
system, component, or process to	Taken a remedial or developmental course		22		10	
meet desired needs. It is a decision-	Participated in an academic support program		22			
making process (often iterative), in	How often: Work/ed on a professor's research project	47	23		9	
which the basic sciences,	Mostly online instruction			20	,	
mathematics, and the engineering	Opportunities to study and serve communities in need (e.g., service			20		
sciences are applied to convert resources optimally to meet these	learning)			20		
stated needs.	Courses at another institution: To fulfill degree requirements			24		
otatea needo.	Courses at another institution: To complete my degree quicker			24		
	Courses at another institution: Courses I needed to take were not			24		
	offered at this college			27		
	Courses at another institution: To take a class to explore my interests			24		
	Courses at another institution: To earn a degree or certificate that is			24		
	not offered at this college					
	Taking a variety of classes from different programs/majors			TM		
	There are too many steps to declare a major here			TM		
	I had expected to get better grades than the grades I have earned so			TM		
	far			TM		
	I am considering changing my major in the future			TM		
	How many courses involve: Lectures (exclusively or almost			CC		
	exclusively)  How many courses involve: Class discussions			CC		
	How many courses involve: Student presentations			CC		
	•					
	How many courses involve: Multiple short papers			CC		
	How many courses involve: One or more research papers of 10+ pages			CC		
	How many courses involve: Multiple drafts of written work			CC		
	How many courses involve: Group projects			CC		
	How many courses involve: Lab work			CC		
	How many courses involve: Cooperative learning (small groups)			CC		

		Question placement			t	
Criterion 5b, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	How many courses involve: Reflective writing/journaling			CC		
	How many courses involve: Electronic quizzes with immediate			CC		
	feedback in class (e.g., clickers)					
	Class sections are available in the evening			TR2		
	Figure out which courses count towards your goals			TR2		
	Schedule classes for the next semester			TR2		
	Complete course pre-requisites for an intended major			TR2		
	How often: Took a class that required one or more 10+ page papers				9	
	How often: Took a class that required multiple short papers				9	
	How often: Made a presentation in class				9	
	Satisfaction: Courses in your major field				16	
	Satisfaction: Class size				16	
	Part-time instructors: Are primarily responsible for introductory classes					2
	Taught an interdisciplinary course					10
	Collaborated with the local community in research/teaching					10
	Engaged undergraduates on <u>your</u> research project					10
	Worked with undergraduates on a research project					10
	How many courses are you teaching: Course required for an					11
	undergraduate major					
	Instructional techniques/methods: Class discussions					19
	Instructional techniques/methods: Cooperative learning (small groups)					19
	Instructional techniques/methods: Experiential learning/Field studies					19
	Instructional techniques/methods: Recitals/Demonstrations					19
	Instructional techniques/methods: Group projects					19
	Instructional techniques/methods: Extensive lecturing					19
	Instructional techniques/methods: Multiple drafts of written work					19
	Instructional techniques/methods: Student-selected topics for course content					19
	Instructional techniques/methods: Reflective writing/journaling					19
	Instructional techniques/methods: Community service as part of coursework					19
	Instructional techniques/methods: Using real-life problems					19
	Instructional techniques/methods: Using student inquiry to drive learning					19
	Undergraduate goals: Help master knowledge in a discipline					21
	Institutional priority: To promote the intellectual development of students					30

		(	Questi	on plac	emen	t
Criterion 5c.						
A general education component that	Seek solutions to problems and explain them to others	34	1	19	2	18
complements the technical content of	1 1	34	1	19	2	18
the curriculum and is consistent with	Evaluate the quality or reliability of information you received	34	1	19	2	18
the program and institution	Seek feedback on your academic work	34	1	19	2	18
objectives.	·	34		19	2	10
Students must be prepared for	Satisfaction: General education and core curriculum courses		6			
engineering practice through a	Satisfaction: Your overall academic experience		6			
curriculum culminating in a major	Satisfaction: First-year programs (e.g., first-year seminar, learning		6			
design experience based on the	community, linked courses)		0	TR4		
knowledge and skills acquired in earlier course work and incorporating	Develop effective study skills		9	1 K4		
appropriate engineering standards	Adjust to the academic demands of college		9			
and multiple realistic constraints.	How often: Asked a professor for advice after class		12			
One year is the lesser of 32 semester	Satisfaction: Overall college experience		15			
hours (or equivalent) or one-fourth of	Perceived growth: General knowledge	39	17		14	
the total credits required for	Importance: Writing original works (poems, novels, etc.)	44	19		23	
graduation.	Importance: Developing a meaningful philosophy of life	44	19		23	20
	Experiences with other racial/ethnic groups: Had intellectual		20			
	discussions outside of class					
	Experiences with other racial/ethnic groups: Studied or prepared for		20			
	Attending classes/labs		21		13	
	Studying/homework		21		13	
	Taken an honors course		22			
	Taken a remedial or developmental course		22			
	•					
	Enrolled in a formal program where a group of students takes two or more courses together (e.g., FIG, learning community, linked		22			
	courses)  Participated in an academic support program		22			
	Taken a course or first-year seminar designed to: Connect faculty and		22			
	students in focused academic inquiry		22			
	Taken a course or first-year seminar designed to: Help students adjust to college-level academics		22			
	Taken courses from more than one institution simultaneously		22		10	
	Taken a course exclusively online: At this institution		22		10	
	Mostly online instruction			20		
	Opportunities to study and serve communities in need (e.g., service learning)			20		
	Materials/readings about race/ethnicity			20		
	Materials/readings about socioeconomic class differences			20		
	Not been able to get into the classes you need because they were full			21		
	· · · · · · · · · · · · · · · · · · ·					
	Not been able to take the classes you need because they were not offered/were cancelled			21		
	Courses at another institution: To fulfill degree requirements			24		
	Courses at another institution: To complete my degree quicker			24		
	Courses at another institution: Courses I needed to take were not			24		
	offered at this college Courses at another institution: To take a class to explore my interests			24		
	- · ·			24		
	Courses at another institution: To earn a degree or certificate that is not offered at this college			24		
	Taking a variety of classes from different programs/majors			TM		

		Question placement				t
Criterion 5c, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	How many courses involve: Lectures (exclusively or almost			CC		
	exclusively)  How many courses involve: Class discussions			CC		
	How many courses involve: Class discussions  How many courses involve: Student presentations			CC		
	How many courses involve: Multiple short papers			CC		
	How many courses involve: One or more research papers of 10+			CC		
	pages			00		
	How many courses involve: Multiple drafts of written work			CC		
	How many courses involve: Group projects			CC		İ
	How many courses involve: Lab work			CC		
	How many courses involve: Cooperative learning (small groups)			CC		į
	How many courses involve: Reflective writing/journaling			CC		
	How many courses involve: Electronic quizzes with immediate feedback in class (e.g., clickers)			CC		
	Schedule classes for the next semester			TR2		
	Complete course pre-requisites for an intended major			TR2		
	How often: Took a class that required one or more 10+ page papers				7	
	How often: Took a class that required multiple short papers				7	
	How often: Made a presentation in class				7	
	Satisfaction: General education or core curriculum courses				14	
	Satisfaction: Humanities courses				14	
	Satisfaction: Social science courses				14	
	Satisfaction: Class size				15	
	Part-time instructors: Are primarily responsible for introductory classes					2
	Collaborated with the local community in research/teaching					10
	Engaged undergraduates on <u>your</u> research project					10
	Worked with undergraduates on a research project					10
	How many courses are you teaching: General education course					11
	Evaluation methods: Multiple-choice exams					19
	Evaluation methods: Essay exams					19
	Evaluation methods: Short-answer exams					19
	Evaluation methods: Quizzes					19
	Evaluation methods: Weekly essay assignments					19
	Evaluation methods: Student presentations					19
	Evaluation methods: Term/research papers					19
	Evaluation methods: Student evaluations of each others' work					19
	Instructional techniques/methods: Class discussions					19
	Instructional techniques/methods: Cooperative learning (small					19
	groups) Instructional techniques/methods: Experiential learning/Field studies					19
	Instructional techniques/methods: Recitals/Demonstrations					19
	Instructional techniques/methods: Group projects					19
	Instructional techniques/methods: Extensive lecturing					19
	Instructional techniques/methods: Multiple drafts of written work					19
	Instructional techniques/methods: Student-selected topics for course content					19

			Questi	on plac	cemen	t
Criterion 5c, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	Instructional techniques/methods: Reflective writing/journaling					19
	Instructional techniques/methods: Community service as part of					19
	coursework					
	Instructional techniques/methods: Using real-life problems					19
	Instructional techniques/methods: Using student inquiry to drive					19
	learning					
	Instructional techniques/methods: Experiential learning/Field studies					19
	Institutional priority: To promote the intellectual development of					30
	students					

	Instructional techniques/methods: Community service as part of coursework				19
	Instructional techniques/methods: Using real-life problems				19
	Instructional techniques/methods: Using student inquiry to drive				19
	learning				
	Instructional techniques/methods: Experiential learning/Field studies				19
	Institutional priority: To promote the intellectual development of				30
TFS = The Freshman Survey; YFCY = Your First C	students College Year; DLE = Diverse Learning Environments Survey; CSS = College Senior Sur	vey; FAC	C = The I	HERI Fa	culty Survey
The DLE has five modules: TR2 = Climate for Tran Intergroup Relations; CC = Classroom Climate  The TFS is administered at the beginning of the fresh	usefer at Two-Year Institutions; TM = Transition to Major; TR4 = Climate for Transfer Schman year; The YFCY is administered at the end of the first year; The DLE is administer; The FAC is administered every three years to faculty.	Students	at Four-Y	Year Insti	itutions; IGR =

All programs seeking accreditation from the Engineering Accreditation Commission of ABET must demonstrate that they satisfy all of the following General Criteria for Baccalaureate Level Programs.

		(	Questi	on plac	emen	t
Criterion 6. Faculty	Item	TFS	YFCY	DLE	CSS	FAC
The faculty must be of sufficient	Interacted with: Faculty during office hours		3			
number and must have the	Interacted with: Faculty outside of class or office hours		3			
competencies to cover all of the	Interacted with: Academic advisors/counselors		3			
curricular areas of the program.	Interacted with: Graduate students/teaching assistants		3			
There must be sufficient faculty to	That faculty provided me with feedback that helped me assess my		5			
accommodate adequate levels of	progress in class		3			
student-faculty interaction, student	That my contributions were valued in class		5			
advising and counseling, university service activities, professional	That faculty encouraged me to ask questions and participate in		5			
development, and interactions with	discussions		3			
industrial and professional	Satisfaction: Academic advising		6		15	
practitioners, as well as employers of	How often: Academic advising		7	8		
students.	Understand what your/my professors expect of you/me academically		9	TR4		
The program faculty must have		21	12	11/4	9	
appropriate qualifications and must	How often: Was a guest in a professor's/teacher's home	31				
have and demonstrate sufficient	How often: Asked a professor/teacher for advice after class	31	12		9	
authority to ensure the proper	Faculty show/ed concern about my progress		14	6	19	
guidance of the program and to	Faculty empower me to learn here		14	6	19	
develop and implement processes for	Faculty believe in my potential to succeed academically		14	6	19	
the evaluation, assessment, and	Staff encouraged me to get involved in campus activities		14		19	
continuing improvement of the	In class, I have heard faculty express stereotypes based on		14		19	
program, its educational objectives	race/ethnicity, gender, sexual orientation, or religious affiliation		- '			
and outcomes. The overall	Staff recognize my achievements		14	6	19	
competence of the faculty may be	Faculty encourage/d me to meet with them outside of class		14	6	19	
judged by such factors as education,	At least one faculty member has taken an interest in my development		14	6	19	
diversity of backgrounds, engineering				U		
experience, teaching effectiveness	Satisfaction: Amount of contact with faculty		15		16	
and experience, ability to communicate, enthusiasm for	Satisfaction: Racial/ethnic diversity of faculty		15			
developing more effective programs,	Satisfaction: Overall quality of instruction		15		16	
level of scholarship, participation in	Communicate/d regularly with your professors	47	22		9	
professional societies, and licensure	Taken a course or first-year seminar designed to: Connect faculty and		22			
as Professional Engineers.	students in focused academic inquiry					
	How often: Worked on a professor's research project		23		9	
	How often: Received from your professor advice or guidance about your educational program		23		24	
	At least one staff member has taken an interest in my development			6	19	
	How often: Career counseling and advising			8		
	How often: Attended a professor's office hours			8		
	-			22		
	Faculty were able to determine my level of understanding of the course material					
	Felt that faculty provided me with feedback that helped me assess my progress in class			22	17	
	Felt that my contributions were valued in class			22	17	
	Felt that faculty encouraged me to ask questions and participate in discussions			22	17	
	Finding a supportive faculty member in the major			TM		
	Talking to a counselor/academic advisor			TM		
	0 .					

		Question placement				
Criterion 6, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	Faculty are approachable			TM		
	The faculty and staff demonstrate a strong commitment to diversity			TM		
	There is high quality teaching			TM		
	Faculty are interested in my development as a student			TM		
	Faculty here take an interest in the success of transfer students			TR4		
	Get to know faculty			TR4		
	Instructors: Encourage students from diverse backgrounds to work together			CC		
	Instructors: Encourage students to contribute different perspectives in class			CC		
	Instructors: Treat all students in class as though they are capable learners			CC		
	Instructors: Include diverse perspectives in class			CC		
	Instructors: Motivated me to work harder than I thought I could			CC		
	Instructors: Are passionate about what they teach			CC		
	Instructors: Teach students tolerance and respect for different beliefs			CC		
	Faculty make transfer a priority at this institution			TR2		
	Faculty and staff understand the academic, cultural, social, and economic needs of students who go here			TR2		
	Discussed my academic goals with faculty			TR2		
	Was encouraged by faculty or staff to participate in an academic			TR2		
	summer program linked with a four-year institution					
	How often: Met with an advisor/counselor about your career plans				9	
	How often: Challenged a professor's ideas in class				9	
	Satisfaction: Career counseling and advising				15	
	Satisfaction: Ability to find a faculty or staff mentor				16	
	Received from your professor: Encouragement to pursue graduate/professional study				24	
	Received from your professor: An opportunity to work on a research project				24	
	Received from your professor: Emotional support and encouragement				24	
	Received from your professor: A letter of recommendation				24	
	Received from your professor: Honest feedback about your skills and abilities				24	
	Received from your professor: Help to improve your study skills				24	
	Received from your professor: Feedback on your academic work (outside of grades)				24	
	Received from your professor: Intellectual challenge and stimulation				24	
	Received from your professor: An opportunity to discuss coursework outside of class				24	
	Received from your professor: Help in achieving your professional goals				24	
	Received from your professor: An opportunity to apply classroom learning to "real life" issues				24	
	Received from your professor: An opportunity to publish				24	
	Taught an interdisciplinary course					10
	Participated in a teaching enhancement workshop					10
	Collaborated with the local community in research/teaching					10

		Question placement				t
Criterion 6, Cont.	Item	TFS	YFCY	DLE	CSS	FAC
	Engaged undergraduates on <u>your</u> research project					10
	Worked with undergraduates on a research project					10
	Supervised an undergraduate thesis					10
	Published op-ed pieces or editorials					10
	Received funding for your work from: Foundations					10
	Received funding for your work from: State or federal government					10
	Received funding for your work from: Business or industry					10
	Paid workshops outside the institution focused on teaching					13
	Internal grants for research					13
	Training for administrative leadership					13
	Received incentives to develop new courses					13
	Received incentives to integrate new technology into your classroom					13
	Importance: Mentoring the next generation of scholars					20
	Advising and counseling of students					22
	It is easy for students to see faculty outside of regular office hours					26
	Faculty here respect each other					26
	Faculty are rewarded for being good teachers					26
	Faculty are rewarded for their efforts to use instructional technology					26
	Source of stress: Students					27
	Source of stress: Research or publishing demands					27
	Source of stress: Teaching load					27
	Source of stress: Keeping up with information technology					27
	Source of stress: Working with underprepared students					27
	Satisfaction: Teaching load					28
	Satisfaction: Quality of students					28
	Satisfaction: Office/lab space					28
	Satisfaction: Autonomy and independence					28
	Satisfaction: Professional relationships with other faculty					28
	Satisfaction: Departmental leadership					28
	Satisfaction: Course assignments					28
	Satisfaction: Freedom to determine course content					28
2S - The Erechman Sugrey, VECV - Vous Eiget	Satisfaction: Overall job satisfaction					28

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The DLE has five modules: TR2 = Climate for Transfer at Two-Year Institutions; TM = Transition to Major; TR4 = Climate for Transfer Students at Four-Year Institutions; IGR = Intergroup Relations; CC = Classroom Climate

The TFS is administered at the beginning of the freshman year; The YFCY is administered at the end of the first year; The DLE is administered during the second and/or third years; The CSS is administered at the end of the senior year; The FAC is administered every three years to faculty.

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			Questi	on plac	cemen	t
Criterion 7. Facilities	Item	TFS	YFCY	DLE	CSS	FAC
Classrooms, offices, laboratories, and	Satisfaction: Classroom facilities		6			
associated equipment must be	Satisfaction: Computer facilities/labs		6			
adequate to support attainment of the	Satisfaction: Library facilities		6		15	
student outcomes and to provide an	Satisfaction: Laboratory facilities and equipment		6		15	
atmosphere conducive to learning.	Satisfaction: Computing assistance		6		15	
Modern tools, equipment, computing resources, and laboratories	How often: Study skills advising		7	8	10	
appropriate to the program must be	How often: Writing center		7	8		
available, accessible, and	9		· ·	0	0	
systematically maintained and	How often: Accessed your campus' library resources electronically		23		9	
upgraded to enable students to attain	How often: Tutoring or other academic assistance			8		
the student outcomes and to support	How often: Disability resource center			8		
program needs. Students must be	How often: Posted on a course-related on-line discussion board				9	
provided appropriate guidance	Satisfaction: Tutoring or other academic assistance				15	
regarding the use of the tools,	Satisfaction: Office/lab space					28
equipment, computing resources,	•					
and laboratories available to the						
program.						
The library services and the						
computing and information						
infrastructure must be adequate to						
support the scholarly and professional activities of the students						
and faculty.						
·	College Very DIE - Diverse Leaguing Environments Survey CSS - College Senior Sur					

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Criterion 8. Institutional Support	Item	Question placement				
		TFS	YFCY	DLE	CSS	FAC
Institutional support and leadership						
must be adequate to ensure the						
quality and continuity of the						
program.						
Resources including institutional						
services, financial support, and staff						
(both administrative and technical)						
provided to the program must be						
adequate to meet program needs.						
The resources available to the						
program must be sufficient to attract,						
retain, and provide for the continued						
professional development of a						
qualified faculty. The resources						
available to the program must be						
sufficient to acquire, maintain, and						
operate infrastructures, facilities, and						
equipment appropriate for the						
program, and to provide an						
environment in which student						
outcomes can be attained.						

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