Appendix 4-A Longitudinal Cohort (PIE) Survey Examples

Survey 1, Winter 2004	4A-2
Survey 4, Spring 2005	
Survey 7, Spring 2007	

Academic Pathways Study Winter'04 Survey

Please click the SUBMIT button only after you have completed the survey. You will then need to enter your login and password. For best viewing results, please maximize your browser window.

1.	What	is your expected year of graduation from college?
	$) \cap $	○2003
	$) \in$	□2004
		ℂ□2005
		℃2006
		□2007
	()	□2008
		2009
		2010 or later
2		
۷.		do you intend to major in? (Currently, your first choice)
) (-	Aeronautical Engineering
		Chemical Engineering
		Civil and Environmental Engineering
)(© Computer Science
		© Electrical Engineering
		☐ Management Science and Engineering
	$\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}}}}}$	☐ Materials Science and Engineering
	$) \cap $	☐ Mechanical Engineering
	$) \cap $	C □Other Engineering
	$) \in$	☐ Arts and Humanities
	$) \cap$	□Education
		☐Physical Science/Math
		Social Science
		Other:
3.	What	do you intend to major in? (Currently, your second choice)
٠.		Aeronautical Engineering
		Chemical Engineering
		Civil and Environmental Engineering
		Computer Science
		© Electrical Engineering
		Management Science and Engineering
		Materials Science and Engineering
		©Mechanical Engineering
		Other Engineering
		☐ Arts and Humanities
		Education
		☐Physical Science/Math
	$) \cap$	C Social Science
	$) \in$	C N/A
	$) \ \bigcirc$	○Other:
4.	What	is the highest academic degree that you intend to obtain in engineering? (Mark one)
		None
		☐Bachelor's
		☐ Master's
		Ph.D.
		Other
		© I do not know

5. If you are thinking of going to graduate school (NOT in engineering), please mark your probable area of study.
୬ େ ି Business
୍ର େ ାEducation
୍ର ୍ଲ Medicine
୍ର ପ୍ରାଧିକ Market State
୍ର ୍ଲ MA/Ph.D.
UC C□Public Service
୍ର ୍ ୁ Other
or con/a
6. About how many hours do you spend in a typical 7-day week doing each of the following? 0 1-5 6-10 11-15 16-20 21-25 26-30 more than 30
Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data,
rehearsing, and other academic activities)
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UN RESULTED FOR SET OF RESULTED SET OF RESULTE
Working for pay off campus
Participating in co-curricular activities (organizations, campus publications, student government,
social fraternity or sorority, intercollegiate or intramural sports, etc.)
The colocies he colocies he coloc he colocies
Relaxing and socializing (watching TV, partying, exercising, etc.)
Providing care for dependents living with you (parents, children, spouse, etc.)
Toviding care for dependents living with you (parents, children, spouse, etc.)
Commuting to class (driving, walking, etc.)
7. For each reason for studying engineering, please indicate how strongly you disagree or agree with the statement:
Strongly Disagree Disagree Neutral Agree Strongly Agree
I enjoy figuring out how things work
Technology plays an important role in solving society's problems
Engineers make more money than most other professionals
My parent(s) are making me study engineering
Engineers are innovative
っててロッとてロッとでロッとでロッとでロッとでロッとでロッとでは Engineers have contributed greatly to fixing problems in the world
Engineers have contributed greatly to fixing problems in the world
Engineers are well paid
Engineering is an occupation that is respected by other people
My parents want me to be an engineer
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
Engineers are creative

8. For each statement, please indicate how strongly you disagree or agree with the statement: Strongly Disagree Disagree Neutral Agree Strongly Agree
I prefer working/studying alone
I enjoy the subjects of science and mathematics the most
Creative thinking is one of my strengths
ン
I have strong problem solving skills
ファイトロット トロット トロット トロット トロット トロット トロット トロット
I enjoy problems that can be solved in different ways
My instructors often remind students that they need to do better than other students to obtain high grades
I have easy access to work spaces where I can participate in peer study/discussion sessions with my fellow students
I am encouraged by my instructors to initiate orparticipate in peer study sessions with my fellow
students JOHA COLOR COL
My instructors grade on a curve.
9. Please indicate the importance to you personally of each of the following: Not Important Somewhat Important Very Important Essential
Getting higher grades than my classmates
Influencing social values
ອັດ ເພື່ອເປັດ ເພື່ອເປັດ ເພື່ອເປັດ ເພື່ອ Becoming an authority in my field
The control of the c
Helping to promote racial understanding
Becoming a community leader
Helping others who are in difficulty
When playing any game, to win
Developing a meaningful philosophy of life
Becoming a practicing engineer
Getting along with others
Working as part of a team
Becoming a student government official
Establishing relationships with engineering students

10. compared with when you entered this college, how would you describe your: Much Weaker Weaker No Change Stronger Much Stronger Analytical and problem solving skills Critical thinking skills General knowledge Knowledge of a particular field or discipline Interest in studying engineering 11. Please rate your satisfaction with this institution on each of the aspects of campus life listed below. If you do not have experience with this aspect, mark "na." Very dissatisfied Opportunities for community service Quality of instruction by faculty Availability of Tas 12. Please rate your satisfaction with each of the following at this institution. If you do not use the service or facility, mark "na." Availability of Tas 12. Please rate your satisfaction with each of the following at this institution. If you do not use the service or facility, mark "na." Very dissatisfied Dissatisfied Neutral Satisfied Very satisfied N/A 12. Please rate your satisfaction with each of the following at this institution. If you do not use the service or facility, mark "na." Very dissatisfied Computer facilities Classrooms Classrooms Tutoring Academic advising Laboratories 13. Since entering this college, indicate how often you: (Mark one for each item) Not at all Rarely Occasionally Frequently Felt that your courses inspired you to think in new ways Felt you did not have enough time to pursue nonacademic activities Worried about keeping up with your schoolwork	ンC C つって C つって C つって C の														
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	Worried about keeping up	with your so	choolwo	ork											
Felt you did not have a "social life"	Felt you did not have a "s			- · U											
Worried about how you would pay for school				· C	_										
	Worried about how you w	C□ ⊃C ould pay for	school												
	Worried about how you w	C□ ⊃C ould pay for	school												

Participated in a peer stud				
	y group C□ ⊃C			
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14. Think about the math classes taken any math classes)	you have take	n. Since entering colle	ege, indicate how often	you: (Mark N/A if you have not
	Rarely	Occasionally	Frequently	N/A
Came late to math class				
Skipped math class				
Turned in math assignmer	nts that did	not reflect your b	est work	
Turned in math assignmen	nts late			
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Thought math classes wer				
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Skipped science class				
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18. Since entering this college, how often have you interacted with the following people (e.g. by phone, e-mail, Instant Messenger, or in person)? (Mark one for each item)													
	es/month C	Once a week	2-3 times/week	Daily									
Faculty during office hours			C										
Faculty outside of class or office hours													
Teaching Assistants during office hours													
Teaching Assistants outside of class or of	fice hours												
		o											
19. Rate yourself on each of the following traits as compared with the average person your age. We want the most accurate estimate of how you see yourself. (Mark one in each row.)													
	Average	Above Averag	e Highest 10%										
Self confidence (intellectual)													
Self confidence (social)													
Self understanding													
Leadership ability													
ວ່າ ຕົ ພາ ຕ ຕ ພາ ຕ ຕ Public speaking ability													
Math ability													
ング (ローング (ローング (ローング Science ability													
Computer and programming skills													
Written communication skills													
Business ability													
3	J. ([
20. How important do you think each of the following each row.)	skills and abilities	is to becoming a suc	cessful engineer? (Mark	one in									
Not Important Somewhat Important	Important	Very Importan	t Crucial										
Public speaking ability													
Math ability													
Science ability													
Computer and programming skills													
Written communication skills)e e□												
Business ability													
21. What percentage of the courses you have taken the Course you have	nus far have been ta	aught primarily by gra	duate students?										

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				(-)((° [<u>)</u> (-	(·		(° [)(<u></u>		
Team	Project	S		(·		(·	2)(-	(·		() (·			
Labs) C	(· [2)(\bigcap	٠) (-	\bigcap		() (·	\bigcap		
Semin	ars) (·									
22 -										• п		, [
23. Do you see your self studying or practicing engineering next year? ○ ○ ○ □Yes														
JC C□No														
)(know											
24. You		uo noi	KIIOW											
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		ot ma												
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	_	epara												
2) (-		/idowe												
29. но	w many d	epende	nts do y	ou have	?									
	CON	one	-											

$\mathcal{O} \subset$	(`□2
	<u> </u>
	<u>4</u>
	□5 or more
30 Wha	t year did you graduate from high school?
JI. How	would you describe the community where you attended high school?
2) (C Rural
	Small town
) (Suburban
$\mathcal{O} \subset$	□Urban
32. Wha	t was your average grade in high school? (Mark one)
	C□A or A+
	\subset \square A
	∩B
	∩B
	C+-
	C DF
	— -
2)(-	
	ny of your immediate family members hold an engineering degree? (Mark all that apply)
!_	
	□Yes, both parents
	□Yes, father only
	☐Yes, mother only
	Yes, sibling(s)
34. Wha	t is the highest level of education that your mother completed? (Mark one box)
	☐ Did not finish high school
	Graduated from high school
	Attended college but did not complete degree
()	Completed an Associate's degree (A.A., A.S., etc.)
	Completed a Bachelor's degree (B.A., B.S., etc.)
	Completed a Master's degree (M.A., M.S., etc.)
	Completed a Professional degree (J.D., M.D., etc.)
$) \in$	Completed a Doctoral degree (Ph.D.)
35. Wha	t is the highest level of education that your father completed? (Mark one box)
	□Did not finish high school
	☐Graduated from high school
	☐Attended college but did not complete degree
	Completed an Associate's degree (A.A., A.S., etc.)
	Completed a Bachelor's degree (B.A., B.S., etc.)
	Completed a Master's degree (M.A., M.S., etc.)
	Completed a Professional degree (J.D., M.D., etc.)
	Completed a Professional degree (Ph.D.)
	·
	t is your best estimate of your parents' total income last year? Consider income from all sources before taxes. (Marl
one)	☐ Less than \$10,000
0	\(\sigma\)
) C	
00	©\$15,000-19,999
	\$20,000-24,999 \$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exittit{\$\text{\$\exittit{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\exittit{\$\text{\$\exittin}\$\\ \$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\
2)(-	©\$25,000-29,999
	©\$30,000-39,999
	C \$40,000-49,999
$\mathcal{O} \subset$	□\$50,000-59,999
	ℂ \$60,000-74,999

এ	5,000-99,9 00,000-149 50,000-199 00,000-249 50,000 or r	9,999 9,999 9,999										
37. How do you m the various sources.	eet your colle	ge exper	nses? Fi	ill in the	respons	se that b	est appı	roximate	es the ar	mount of	support froi	n each o
None	Very little	L	ess th	an half		About I	nalf	More	e than	half	All or ne	arly all
Self (job, savin	gs, etc.)											
Parents	. []	(.) ((. [)((. [) ((.		(. [
)((·) (·	(·		(·)((·		
Spouse or part	ner) (1) () (1) (
Employer supp	ort											
) (·	(· [)((· [)((-)((·		
Scholarships a	nd grants		, ·) (-		,) (()	(n	. (\bigcap		
Loans												
್ರ೧ (Other sources		(-) C	(· 🗆) (·	(. [(. [00	(-		
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39. Which of the form of the f	rmitory or of sidence (hosidence	describe other of ouse, ouse, sorority of the so alone other so partno nildren sore not wing phy ired lly imp of-hea	es where campu apartn apartn / hous chool ye studer er t studer er	e you are is hous nent, e nent, e se ar? (Mar ats	e living (resing (restc.) wetc.) wetc.) wetc.	now whi not fra vithin v vithin c at apply)	le attend ternity, valking Iriving	ling coll /soror g dista distar m atte	ege? ity hou ince of nce of nding	use) f the ins the ins	titution	ervices
office on campus? (☐☐☐Tut ☐☐☐☐Tap	Mark all that a foring be recordinended time	ipply) ng of le	ectures		nogy or	ouier ac	ommo	walions	nom th	s uisaDIIIT	y support S	ei vices
43. In your SCHOO Never		ACTIVITI Sometir			lo you u Often	se the fo			logies? uently			em.)

Desktop computer			(·				<u></u>		
Laptop computer	· (-	·) (-	\Box	.) (C	, (\bigcirc		
Web Browser									
Email									
Instant Messaging (IM)	Program	าร							
Cell Phone									
Text Messaging on a C	ell Phone	е							
Personal Digital Assista							(· []		
Game Console) (e.g.) ((a li) (([) (·	(-		
		2)(2)(\bigcap				
Computer Games / Sim		2) (-	(·) (·	(· [(]		
Scientific or Graphing C				.) (
General-purpose Calcu	lator								
Portable Music Players					(· [
					$\overline{}$)(
Audio Recording Device)((·) ((° [
Video conferencing or V	Veb-Car	n .) C		.) (
Digital Camera									
Chat Rooms									
Engineering Specific Sc			(· [(·	2) (-			
Conoral Burnasa Softw									
General Purpose Softw)((-		
44. In your PERSONAL LIFE of	outside of s	chool, h	ow ofte	n do yo	u use th	e follow	ing technologies? (Mark one for each	item.)
Never	Sometin			Often			ery frequently	N/A	
Desktop computer ○ ○ ○ □ ○ ○	· (-) (·	\bigcap) C	\Box		\bigcap		
Laptop computer									
Web Browser	· (-	·) (-	\Box	.) (C	, (\Box		
Email									
Instant Messaging (IM)	Program	าร							
Cell Phone									
Text Messaging on a Co			(·) (-			
ə6 <u>6</u> ə6	· (-)(
Personal Digital Assista	INT (PDA) (e.g. ∋ ೧	, Palm ∩	J. Blac	KDerry	y) 	(-		
Game Console									
Computer Games / Sim			`	J.	`	J.	` 🗆		

Scientific or Graphing Calculator	
General-purpose Calculator	
Portable Music Players (e.g., CD or MP3 player)	
Audio Recording Device	
Video conferencing or Web-Cam	
Digital Camera ער רם ער רם ער רם ער רם	
Chat Rooms OF CO OF CO OF CO OF CO	
Engineering Specific Software	
General Purpose Software (e.g., Office applications)	
45. How often do you carry the following technologies with you? (Mark one for each item.)	
Never Sometimes Often Very frequently N/A Laptop computer	
Cell Phone without Text Messaging	
Cell Phone with Text Messaging	
୬୧ ୧□ ୬୧ ୯⊡ ୬୧ ୯□ ୬୧ ୯□	
Personal Digital Assistant (PDA) (e.g., Palm, Blackberry)	
Scientific or Graphing Calculator	
General-purpose Calculator	
Portable Music Players (e.g., CD or MP3 player)	
Audio Recording Device	
୬୯ (ଲି. ୬୯ (ଲ. ୬୯ (ଲ. ୬୯ (ଲ. ୬୯ (ଲ.	
Digital Camera of Cooperation of C	
46. List all of the electronic and computer technologies (i.e., like those listed in the previous question) you made momentary use of yesterday and say what each was used for	even
47. Yesterday was a: (Mark one.)	
ା େ େ ା	
48. What is the first word or phrase you think of to describe your favorite professor? (Please respond in the spa	ce provided.)
49. Do you believe your peers would agree with this description: (Mark one)	
or res or res	
of all don't know	
50. Some students participate in design competitions, internships, and clubs. In the space provided identify engactivities you have participated in outside of class. (If this is not applicable to you, please write "None.")	ineering related
51. What percentage of your friends in college (on this campus or other campuses) are studying engineering? (I	Mark one.)
C□Very few	

Call or nearly a	f		
52. Since entering this college, in each item.)	ndicate how often you have	done the following with othe	r engineering students: (Mark one for
Not at all	Rarely	Occasionally	Frequently
Worked on class projects		C C =	
Held a study group		(, (, []	
Je e e			
Took a specific lecture-typ	e class		
Took a specific laboratory	Class		
Worked on homework	(, 2(, (, 2)	. (.	
		C C	
Reviewed class material			
Prepared for class exams		C C =	
Wrote class reports		(. (.	
VVIote class reports			
53. In what ways do you interact please write "none.")	with other engineering stud	lents outside of the classroom	m? (If this is not applicable to you,
54. In the space provided identify interest in studying engineering. (I	y any classes (in high schoo f this is not applicable to yo	ol or college so far) that have u, write "none.")	STRONGLY REINFORCED your
55. In the space provided identify in studying engineering. (If this is			STRONGLY WEAKENED your interest
56. What intellectual, personal, fi engineering degree? If this is not a			to overcome to graduate with an
57. In the space provided, list 5 t	erms vou would use to desc	rihe "engineering":	
58. If you were asked the same q			same 5 terms?
○ C□Not likely	doction float wook, flow like	iy io it mat you would not the	o camo o como.
○ C Somewhat like	elv		
⊇ ि □Likely	•		
○ C Very likely			
ା େ C⊟Extremely like			
${f 59}$. In the space provided, list 5 t	erms you would use to desc	cribe "design":	
60 . If you were asked the same q	mostion payt week how the	ly in it that you would list the	s come E torms?
OO. If you were asked the same q	uestion next week, now like	iy is it tilat you would list the	s same 3 terms (
Somewhat like	elv		
of C□Likely	··· <i>y</i>		
○ C □Very likely			
C □Extremely like	ly		

p h #NSTRUMENT STILL IN DEVELOPMENT - DO NOT DISTRIBUTE OUTSIDE APS! Survey Design

Help General Questions Order Preview Finish

This is a preview of how this survey will look. In the preview the survey navigation buttons are inactive, use the section number buttons to view different sections. Some navigation buttons may not appear on your final survey, depending on what access it is assigned. The survey will use the background color of the document in which it is embedded. If you have no further changes click **Finish** at the bottom of this page.

ACADEMIC PATHWAYS STUDY SPRING '05 SURVEY

PLEASE CLICK THE SUBMIT BUTTON ONLY AFTER YOU HAVE COMPLETED THE SURVEY. FOR BEST VIEWING RESULTS, PLEASE MAXIMIZE YOUR BROWSER WINDOW.

1 of 16 7/1/2005 11:12 AM

INS	STRUMENT STILL IN DEVELOPMENT - DO NOT DISTRIBUTE OUTSIDE APS!
1.	What is your expected year of graduation from college?
	○ 2003
	○ 2004
	O 2005
	○ 2006
	O 2007
	○ 2008
	○ 2009
	O 2010 or later
2.	Do you intend to complete a major in engineering?
	O Definitely Not
	O Probably Not
	O Not Sure
	O Probably Yes
	Oefinitely Yes
3.	What do you intend to major in?
	Aeronautical Engineering
	Chemical Engineering
	Civil and Environmental Engineering
	Ocmputer Science
	Electrical Engineering
	Management Science and Engineering
	Materials Science and Engineering
	Mechanical Engineering
	Other Engineering
	Arts and Humanities
	○ Education
	Natural Science/Math
	O Social Science
	Other Non-engineering
4.	If you intend to DOUBLE MAJOR, what is the second major you intend to complete? (Mark N/A if you do not intend to double major.)
	Aeronautical Engineering
	O Chemical Engineering
	Civil and Environmental Engineering
	O Computer Science
	Electrical Engineering
	Management Science and Engineering
	Materials Science and Engineering
	Mechanical Engineering
	Other Engineering
	Arts and Humanities
	○ Education

	STRUMENT STILL IN DEVELOPMENT - DO NOT DIS				_ /	
	Natural Science/Math					
	O Social Science					
	Other Non-engineering					
	O N/A					
	0,					
5.	Do you intend to practice, conduct research in, or teach engineering fo	r at least	3 years	after gra	duation?	
	Oefinitely Not					
	O Probably Not					
	Not Sure					
	Probably Yes					
	Oefinitely Yes					
6.	If you are thinking of going to graduate school NOT IN ENGINEERING, study. Otherwise, mark N/A.	please m	ark you	r most pre	obable area of	f
	Business					
	○ Education					
	○ Medicine					
	○ Law					
	MA/Ph.D.					
	O Public Service					
	Other					
	○ N/A					
7.	We are interested in knowing why you are studying engineering now. F which the following reasons apply to you:	Please in Not a Reason		Moderate Reason	Major	
7.		Not a	Minimal	Moderate		
7.	which the following reasons apply to you:	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	which the following reasons apply to you: Technology plays an important role in solving society's problems	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	which the following reasons apply to you: Technology plays an important role in solving society's problems Engineers make more money than most other professionals	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	which the following reasons apply to you: Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	which the following reasons apply to you: Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than engineering	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	which the following reasons apply to you: Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than engineering Engineers have contributed greatly to fixing problems in the world	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than engineering Engineers have contributed greatly to fixing problems in the world Engineers are well paid	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
7.	Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than engineering Engineers have contributed greatly to fixing problems in the world Engineers are well paid Engineering is an occupation that is respected by other people	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
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7.	Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than engineering Engineers have contributed greatly to fixing problems in the world Engineers are well paid Engineering is an occupation that is respected by other people My parent(s) want me to be an engineer An engineering degree will guarantee me a job when I graduate Engineers are creative problem solvers A faculty member, academic advisor, teaching assistant or other university affiliated person has encouraged and/or inspired me to	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	
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	Technology plays an important role in solving society's problems Engineers make more money than most other professionals My parent(s) would disapprove if I chose a major other than engineering Engineers have contributed greatly to fixing problems in the world Engineers are well paid Engineering is an occupation that is respected by other people My parent(s) want me to be an engineer An engineering degree will guarantee me a job when I graduate Engineers are creative problem solvers A faculty member, academic advisor, teaching assistant or other university affiliated person has encouraged and/or inspired me to study engineering A non-university affiliated mentor has encouraged and/or inspired me to study engineering	Not a Reason	Minimal Reason	Moderate Reason	Major Reason	

NSTRUMENT STILL IN DEVELOPMENT - DO NOT	DIST	KIBU			
I am a competitive	person	0	0	0	0
I prefer working as part of a team to working	alone	0	0	0	0
I get along well with others in study sit	uations	0	0	0	0
I strive to get higher grades than my class	smates	0	0	0	0
The educational institution I am attending promotes competitiv	e work	0	0	0	0
My instructors often remind students that they need to do bett other students to obtain high		0	0	0	0
I have easy access to work spaces where I can participate study/discussion sessions with my fellow st		0	0	0	0
I am encouraged by my instructors to initiate or participate study sessions with my fellow st	udents	0	0	\circ	0
I am a collaborative		0			0
The educational institution I am attending promotes collaborativ	e work	0	0	0	0
9. Please indicate how strongly you disagree or agree with each of	the state	ement:			
	Disagree Strongly		Agree	Agree Strong	
Creative thinking is one of my strengths	0	0	0		
I am familiar with what a practicing engineer does	0	0	0	0	
I am skilled at solving problems that can have multiple solutions					
10. Rate yourself on each of the following traits as compared to you estimate of how you see yourself. (Mark one in each row.)	Lowest	Pater.			III-back
estimate of how you see yourself. (Mark one in each row.) Self confidence (social)	Lowest 10%				III-back
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skilk	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Ability to apply math and science principles in solving rea	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Ability to apply math and science principles in solving rea world problems Business ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Ability to apply math and science principles in solving rea world problems Business ability	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social Leadership ability Public speaking ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills	Lowest 10%	Below Average	Average	Above Average	Highest 10%
estimate of how you see yourself. (Mark one in each row.) Self confidence (social Leadership ability Public speaking ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills	Lowest 10%	Below Average	Average	Above Average	Highest 10% O O O O O O O O O O O O O O O O O O
Self confidence (social Leadership ability Public speaking ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills (Critical Thinking skills) Ability to perform in teams Critical Thinking skills (Mark one in each row.)	Lowest 10%	Below Average	Average	Above Average O O O O O O O O O O O O O O O O O O	Highest 10% O O O O O O O O O O O O O O O O O O
Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills 11. How important do you think each of the following skills and abi (Mark one in each row.)	Lowest 10%	Below Average	Average	Above Average O	Highest 10% O O O O O O O O O O O O O O O O O O
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills 11. How important do you think each of the following skills and abil (Mark one in each row.) Self confidence (social) Leadership ability	Lowest 10%	Below Average ' O O O O O O O O O O O O O O O O O O O	Average	Above Average O	Highest 10% O O O O O O O O O O O O O O O O O O
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills 11. How important do you think each of the following skills and abi (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability	Lowest 10%	Below Average '	Average	Above Average	Highest 10% Compared to the second to the s
estimate of how you see yourself. (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability Science ability Computer skills Communication skills Ability to apply math and science principles in solving rea world problems Business ability Ability to perform in teams Critical Thinking skills 11. How important do you think each of the following skills and ability (Mark one in each row.) Self confidence (social) Leadership ability Public speaking ability Math ability	Lowest 10%	Below Average '	Average	Above Average	Highest 10% Compared to the second to the s

INS	TRUMENT STILL IN DEVELOPME	NT - DC	NOT	DISTRIB	UTE O	UTSIDE	APS!
	Ability to apply math and science princ		ving real problems	0	0	0	0
		100	ss ability	0	0	0	0
	Ability t	o perform	in teams	0	0	0	0
12.	Please rate your satisfaction with this institution of have experience with this aspect, mark N/	Α.	h of the as	spects of ca		listed belo	w. If you do
		Very Dissatisfied	Dissatisfi	ed Satisfied	Very Satisfied	N/A	
	Quality of instruction by faculty	0	0		0	0	
	Quality of advising by faculty	0	0	0	0	0	
	Availability of faculty	0	0		0	0	
	Quality of instruction by teaching assistants	0	0	0	0	0	
	Quality of advising by teaching assistants	0	0	0	0	0	
	Availability of teaching assistants	0	0	0	0	0	
13.	Please rate your satisfaction with each of the f facility, mark N/A.	following a		titution. If y	ou do not	use the se	ervice or
	Very Dissatisfied	Satisfied	Very Satisfied	N/A			
	Computer facilities	0	0	0			
	Libraries O	0	0	0			
	Classrooms	0	0	0			
	Tutoring	0	0	0			
	Academic advising	0	0	0			
	Laboratories 🔘	0	0	0			
14.	Since January, how often have you taken cours projects?	ses which	required	your engage	ement in i	ndividual a	nd/or group
	Never Rarely Occasionally Frequently						
15.	Think about the engineering classes you have Indicate how often you: (Mark N/A if you have						e classes).
			Never	Rarely O	ccasionally	Frequently	N/A
	Came late to engineeri	ng class	0	0	0	0	0
	Skipped engineeri	ng class	0	0	0	0	0
	Turned in engineering assignments that reflect your be		0	0	0	0	0
	Turned in engineering assignme		0	0	0	0	0
	Thought engineering classes were		0	0	0	0	0
						-	

						ever	Rarely	Occ	asionall	y Frequently	N/A
	Cam			al arts cl		0	0				0
w				al arts cl		0	0		0	0	0
Turned in libe	eral arts			r best w		0	0		0		0
Turne	ed in libe	ral art	sassign	nments I	ate	0	0		0	0	0
Thoug	ht libera	arts c	asses	were bor	ing	0	0		0	0	0
How often have you into Messenger, or in person						since Ja	anuary(e.g. by	phone,	e-mail, Ins	tant
					Nev	1-2 er times per Term	per	Once per Week	2-3 times per Week	Daily	
		Fac	ulty du	ring clas	is 🔘	0	0	0			
			-	fice hou	_		0	0	0	0	
	y outside						0	0	0	0	
	Teaching ng Assist				_		0	0	0	0	
Teaching Assistants					_		0	0	0	0	
Less than halfAbout halfMore than halfAll or nearly all	ı										
Since January, what po	r tion of None	your c	Less than half	used ti About half	More than	All or nearly all	eaching	metho	ds?		
	0	0	0	0	0	0					
Lectures		0	0		0	0					
Individual Projects	0		0	0	0	0					
Individual Projects Team Projects	0	0									
Individual Projects Team Projects Labs	0	0	0	0							
Individual Projects Team Projects	0	_	0	0	0	0					

INS	TRUMENT STILL IN DEVELOPMENT - DO NOT DIS	TRIBL	JTE OUT	SIDE APS	i!
21.	Some people are involved in non-engineering activities on or off camp organizations, campus publications, student government, social frate important is it for you to be involved in these kind of activities?	ous, such rnity or se	as hobbies, orority, spo	civic or church ts, etc. How	h
	 Not Important Somewhat Important Very Important Essential 				
22.	How often are you involved in the kinds of non-engineering activities	described	l above?		
	Never Rarely Occasionally Frequently				
23.	Thinking about your college experience since January, please indicate related to the following:	how mu	ch pressure	you are feelin	g
		No	Reasonable		
	Course load (amount of course material being covered)	Pressure	Pressure	Pressure	
	Course pace (the pace at which the course material is being covered)	0	0	0	
	Balance between social and academic life	0	0	0	
24.	How well are you meeting the workload demands of your coursework	?			
	 I am meeting all of the demands easily 				
	 I am meeting all of the demands, but it is hard work 				
	 I am meeting most of the demands, but cannot meet some 				
	I can meet some of the demands, but cannot meet most				
	I cannot meet any of the demands				
25.	How stressed do you feel in your coursework right now?				
	O No stress				
	○ Some stress				
	Reasonable stress				
	 Significant stress Extreme stress 				
	LAMelife stress				
26.	Do you have any concern about your ability to finance your college ed	ucation?			
	None (I am confident that I will have sufficient funds)				
	Some (but I probably will have sufficient funds)				
	Major (not sure if I will have sufficient funds to complete college)				

		Very little	Less than half	About half	More than half	All or nearly all					
Self (income)	0	0	0	0	0	0					
Self (savings)		0	0	0	0						
Parents and family	0	0	0	0	0	0					
Employer support		0	0	0	0	0					
Schalorships and grants	0	0	0	0	0	0					
Loans	0	0	0	0	0	0					
Do you have family members	who are	e pract	ticing	engine	ers?						
O No											
Do you have close friends wh	io are pi	racticir	ng eng	ineers	?						
O V											
○ Yes ○ No											
Ono											
How much exposure have you employee?	u had to	o a prot	fessior	nal eng	ineerir	ıg enviro	onment	as a v	isitor, i	intern,	or
employee? No exposure Limited exposure	u had to	o a proi	fession	nal eng	ineerin	ng enviro	onment	as a v	isitor, i	intern,	or
employee? No exposure	u had to	o a proi	fession	nal eng	ineerin	ng enviro	onment	as a v	isitor, i	intern,	or
employee? No exposure Limited exposure Moderate exposure	u had to	o a prof	fession	nal eng	ineerin	ng envire	onment	as a v	isitor,	intern,	or
Mo exposure Limited exposure Moderate exposure Extensive exposure About how many hours do yo	ou spend	1 in a t	ypical	7-day 0		oing ead		e follo	wing?		more than 30
No exposure Limited exposure Moderate exposure Extensive exposure	ou spend udying, re ub work,	1 in a t eading, analyzir	ypical writing ing data	7-day	week d	oing ead	ch of th	e follo	wing?		more than
employee? No exposure Limited exposure Moderate exposure Extensive exposure About how many hours do you	ou spend udying, re to work, ther acad	eading, analyzi emic ac Working	writing lng data ctivities g for pa	7-day	week d	oing ead	c h of th 11-15	e follo	wing? 21-25	26-30	more than 30
employee? No exposure Limited exposure Moderate exposure Extensive exposure About how many hours do you	ou spend udying, re ib work, ther acad V n co-curr us us is frateri	eading, analyzi lemic ac Working ricular a cations, nity or s	writing ng data ctivities g for pa activitie studen sorority	7-day	week d	6-10	11-15	e follo:	wing? 21-25	26-30	more than 30
employee? No exposure Limited exposure Moderate exposure Extensive exposure Extensive exposure Preparing for class (studoing homework or la rehearsing, and ot Participating in (organizations, camp government, soci	ou spend udying, re ab work, ther acad v n co-curr us public ial fraterr intramu (watchin	eading, analyzi emic ac Working ricular a ations, nity or s ral spor	writing mg data writing mg data studen sorority testuden sorority testuden coordinates and the studen coordinates are sorority mg	7-day 0 0 sy sy it (,,,)	week d	6-10	11-15	e follo:	wing? 21-25	26-30	more than 30
employee? No exposure Limited exposure Moderate exposure Extensive exposure Extensive exposure About how many hours do you Preparing for class (studing homework or la rehearsing, and ot Participating in (organizations, camp government, soci intercollegiate or Relaxing and socializing Providing care for dep	ou spend udying, re the work, ther acad n co-curr us public ial frater intramu (watchin e pendents	eading, analyzi lemic ac Working ricular a ations, ral spor g TV, p g TV, b il living y	writing ing data ctivities g for pa activities studen sorority ts, etc. partying arg, etc.	7-day 0 0; 3, () 5; y () 1, ()	1-5-5-0	6-10	11-15	e follo:	21-25	26-30	more than 30
employee? No exposure Limited exposure Moderate exposure Extensive exposure Extensive exposure About how many hours do you Preparing for class (studing homework or la rehearsing, and ot Participating in (organizations, camp government, soci intercollegiate or Relaxing and socializing Providing care for dep	ou spend adying, re ab work, ther acad n co-curr us public lal fraterr intramu (watchin e pendents i, childrer	ading, analyzi analyzi Working ricular a rations, ral spor g TV, p g TV, p il living il living n, spow	writing mg data store to the student of the student	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-5-5-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	6-10	11-15	e follor	21-25	26-30	more than 30

INS	TRUMENT STILL IN DEVELOPMENT - DO NOT DISTRIBUTE OUTSIDE APS!
	 Very dissatisfied
	O Dissatisfied
	○ Satisfied
	O Very satisfied
33.	Your sex:
	○ Male
	○ Female
34.	Please indicate your ethnic background: (Mark all that apply)
	White/Caucasian
	African American/Black
	American Indian/Alaska Native
	Asian American/Asian
	Native Hawaiian/Pacific Islander
	Mexican American/Chicano
	Puerto Rican
	Other Latino
	Other
35.	Citizenship Status:
	○ U.S. Resident
	Permenant Resident (Green Card)
	○ Neither
36.	What was your average grade in high school? (Mark one)
	○ A or A+
	○ A- ○ B+
	O B
	○ B-
	○ C+
	0 c
	○ D
37.	What is the highest level education that your mother completed? (Mark one)
	Old not finish high school
	Graduate from high school
	Attended college but did not complete degree
	Completed an Asssociate's degree (A.A., A.S., etc.)
	Completed a Bachelor's degree (B.A., B.S., etc.)

INSTRUMENT S	TILL IN DEVEL	ОРМЕ	NT - DC	NOT	DISTRI	BUTE	OUTSIE	E APS!
Comple	eted a Master's degree (M.A., M.S	i., etc.)					
	eted a Professional degr							
Comple	ete a Doctoral degree (P	h.D.)						
38. Please rate the e	extent to which you a	gree that	each of th	ie followii	ıg is reas	on that v	ou are curr	ently majoring
	majoring in enginee							,
		Strongly Disagree	Moderately Disagree	Disagree	Unsure	Agree	Moderately Agree	Strongly Agree
I think er	igineering is interesting	0	0	0	0	0		0
I am maj	oring in engineering for my own good	0	0	0	0	0	0	0
I a	m supposed to major in engineering	0	0	0	0	0	0	0
m	may be good reasons to ajor in engineering, but sonally, I don't see any	0	0	0	0	0	0	0
	engineering is pleasant	0	0	0	0		0	0
	ineering is good for me	0	0	0	0	0	0	0
	joring in engineering is ething that I have to do	0	0	0	0	0	0	0
I am n majorin	najoring in (considering g in) engineering, but I not sure if it is worth it	0	0	0	0	0	0	0
	ng in engineering is fun			0				0
It	is my personal decision	0	0	0	0	0	0	
	I don't have any choice	0		0	0	0	0	
I don't kno	ow. I don't see what the activity brings me	0	0	0	0	0	0	0
I fee	good when I am doing engineering activities	0	0	0	0	0	0	0
I believe e	ngineering is important for me	0	0	0	0	0	0	0
1	feel that I have to do it		0	0	0	0		0
	ng it, but am not sure it a good thing to pursue	0	0	0	0	0	0	0
39. Please rate the e	extent to which you a				ments:			
		Strongly disagree	Moderately Disagree	Disagree	Unsure	Agree	Moderately Agree	Agree Agree
On the w	hole, I am satisfied with myself	0	0	0	0	0	0	0
At times,	I think I am no good at all	0	0	0	0	0	0	0
I feel	that I have a number of good qualities		0	0	0	0	0	0
I am abl	e to do things as well as most other people	0	0	0	0	0	0	0
I feel I	do not have much to be proud of	0	0	0	0	0	0	0
I certai	nly feel useless at times			0		0	0	0
I feel tha	t I'm a person of worth, t on an equal plane with	0	0	0	0	0	0	0
I wish I o	others ould have more respect		0	0	0	0	0	0
All in all T	for myself							
All in all, I	am inclined to feel that I am a failure		0	0	0	0	0	0

I take a positive attitude toward myself	0	0	0	0	0	0	0
Please rate the extent to which you a	gree with	the follow	ing state	ments.			
	Strongly Disagree	Moderately Disagree	Disagree	Unsure	Agree	Moderately Agree	Strongly Agree
Overall, being a member of my ethnic group has very little to do with how I feel about myself	0	0	0	0	0	0	0
In general, being a member of my ethnic group is an important part of my self-image	0	0	0	0	0	0	0
My destiny is tied to the destiny of other members of my ethnic group	0	0	0	0	0	0	0
Being a member of my ethnic group is unimportant to my sense of what kind of person I am	0	0	0	0	0	0	0
I have a strong sense of belonging to my ethnic group community	0	0	0	0	0	0	0
I have a strong attachment to other members of my ethnic group	0	0	0	0	0	0	0
Being a member of my ethnic group is an important reflection of who I am	0	0	0	0	0	0	0
Being a member of my ethnic group is not a major factor in my social relationships	0	0	0	0	0	0	0
Overall, being a member of my gender has very little to do with how I feel about myself	0	0	0	0	0	0	0
In general, being a member of my gender is an important part of my self-image	0	0	0	0	0	0	0
My destiny is tied to the destiny of other members of my gender	0	0	0	0	0		0
Being a member of my gender is unimportant to my sense of what kind of person I am	0	0	0	0	0	0	0
I have a strong sense of belonging to my gender community	0	0	0	0	0	0	0
I have a strong attachment to other members of my gender	0	0	0	0	0	0	0
Being a member of my gender is an important reflection of who I am	0	0	0	0	0	0	0
Being a member of my gender is not a major factor in my social relationships	0	0	0	0	0	0	0
Please rate the extent to which you ag	Strongly	the follow Moderately Disagree		ments: Unsure	Agree	Moderately Agree	Strongly Agree
Overall, being an engineering student has very little to do with how I feel about myself	0	O	0	0	0	O	O

INSTRUMENT STILL IN DEVELO	PMEN	T - DO	NOT	DISTRI	BUTE (DUTSID	E APS!
In general, being an engineering student is an important part of my self-image	0	0	0	0	0	0	0
My destiny is tied to the destiny of other engineering students	0	0	0	0	0	0	0
Being an engineering student is unimportant to my sense of what kind of person I am	0	0	0	0	0	0	0
I have a strong sense of belonging to the engineering student community	0	0	0	0	0	0	0
I have a strong attachment to other engineering students	0	0	0	0	\circ	0	0
Being an engineering student is an important reflection of who I am	0	0	0	0	0	0	0
Being an engineering student is not a major factor in my social relationships	0	0	0	0	0	0	0
I feel good about engineers	0	0	0	0	0	0	0
I am happy that I am going to be an engineer	0	0	0	0	0	0	0
I feel that engineers have made major accomplishments and advancements	0	0	0	0	0	0	0
I often regret that I am going to become an engineer	0	0	0	0	0	0	0
I am proud to be an engineer	0	0	0	0	0	0	0
I feel that the engineering community has made valuable contributions to this society	0	0	0	0	0	0	0
Overall, engineers are considered good by others	0	0	0	0	0	0	0
In general, others respect engineers	0	0	0	0	0	0	0
Most people consider engineers, on the average, to be more ineffective than other professionals	0	0	0	0	0	0	0
Engineers are not respected by the broader society	0	0	0			0	0
In general, other professionals view engineers in a positive manner	0	0	0	0	0	0	0
Society views engineers as an asset	0	0	0	0	0	0	0
I identify with engineering students	0	\circ	0		0	0	0
I am glad to belong to a group of engineering students	0	0	0	0	0	0	0
I feel held back by engineering students	0	0	0	0	0	\circ	0
I think engineering students work well together	0	0	0	0	0	0	0
I see myself as an important part of engineering students on campus	0	0	0	0	0	0	0
I fit in well with the other engineering students	0	0	0	0	0	0	0
I consider engineering students to not be important	0	0	0	0	\bigcirc	\circ	0
I feel uneasy with other engineering students	0	0	0	0	0	0	0
I feel strong ties to engineering students	0	0	0	0	0	0	0

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INSTRUM	ENT STILL IN DEVELOPMENT - DO NOT DISTRIBUTE OUTSIDE APS!
42. Of the f	wenty-three design activities below, please put a check mark next to the six MOST IMPORTANT.
	Abstracting
	Brainstorming
	Building
	Communicating
	Decomposing
	Evaluating
	Generating alternatives
	Goal Setting
	Identifying Constraints
	Imagining
	Iterating
	Making decisions
	Making trade-offs
	Modeling
	Planning
	Prototyping
	Seeking Information
	Sketching
	Synthesizing
	Testing
	Understanding the problem
	Using creativity
	Visualizing
	visualizing
	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT.
43. Of the t	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT.
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting
43. Of the f	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming
43. Of the t	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building
43. Of the t	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating
43. Of the t	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building
43. Of the t	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing
43. Of the f	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating
43. Of the	wenty-three design activities below, please put a check mark next to the six LEAST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions
43. Of the	Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions Making trade-offs
43. Of the	Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions Making trade-offs Modeling
43. Of the	Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions Making trade-offs Modeling Planning
43. Of the	Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions Making trade-offs Modeling Planning Prototyping
43. Of the	Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions Making trade-offs Modeling Planning Prototyping Seeking Information
43. Of the	Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal Setting Identifying Constraints Imagining Iterating Making decisions Making trade-offs Modeling Planning Prototyping Seeking Information Sketching

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INS	TRUMENT STILL IN DEVELOPMENT - DO NOT DISTRIBUTE OUTSIDE APS!
	Understanding the problem
	Using creativity
	Visualizing
	•
Ina	restions 44-48, respond five times to the question "Who Am I?" ("Answer A" should be for your first response,
"Ans	wer B" for your second response, "Answer C" for your third response, "Answer D" for your fourth response, and wer E" for your fifth response.)
Ans	wer E' for your fifth response.)
44.	Who am I? (Answer A)
45.	Who am I? (Answer B)
46.	Who am I? (Answer C)
	•
47.	Who am I? (Answer D)
48.	Who am I? (Answer E)
49.	Rank order your answer to the previous question in terms of how important it is to the way you generally feel
49.	about yourself. For each of your answers, mark a rank between 1 and 5. A rank of "1" indicates the most important component, and "5" indicates the least important component.
	important component, and "5" indicates the least important component.
	1 2 3 4 5
	Answer A O O O O
	Answer B
	Answer C O O O O
	Answer D O O O
	Answer E O O O O
50.	For the following engineering design activities, please indicate your level of confidence. For example, if you
	have little or no confidence in your ability to model engineering solutions, then mark poor. If you are extremely confident in your ability, mark excellent.
	Control of Control of the Control of Control
	Poor Fair Good Very Excellent
	Good
	Defining what the problem really is

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INSTRUMENT STILL IN DEVELOPMENT - DO NOT	DIS	TRIE	UTE	OUT	SIDE	E APS!
Searching for and collecting information needed to solve prob		0	0	0	0	0
Thinking up potential solutions to the prob		0	0	0	0	0
Detailing how to build the solution to the prob	lem	0	0	0	0	0
Assessing and passing judgment on a possible or planned solut	tion	0	0	0	0	0
to the prob Comparing and contrasting two solutions to the problem o	n a	0	0	0	0	0
particular dimension such as of						0
Selecting one idea or solution to the problem from among th conside		\circ	0	0	0	
Communicating elements of the design in sketches, diagrams, li and written or oral repo		0	0	0	0	0
 For the following engineering design activities, please indicate he coursework in the current academic year. 	ow off	1-2 times	1-2 times	ed in t	2-3 times	ivity in your Dally
		per	month	week	a week	<u>/</u>
Defining what the problem really is	0	0	0	0	0	0
Searching for and collecting information needed to solve the problem	0	0	0	0	0	0
Thinking up potential solutions to the problem	0	0	0	0	0	0
Detailing how to build the solution to the problem	0	0	0	0	0	0
Assessing and passing judgment on a possible or planned	0	0	0	0	0	0
solution to the problem Comparing and contrasting two solutions to the problem on a	0	0	0	0	0	0
particular dimension such as cost Selecting one idea or solution to the problem from among						
those considered	0					0
Communicating elements of the design in sketches, diagrams, lists, and written or oral reports	0	0	0	0	0	0
52. For the following engineering design activities, please indicate he you to engage in the activity. For example, if you think they are negotive you think they are preparing you extremely well, then mark exce	iot pro llent.	eparing	you a	t all, ti	ien ma	
Defining what the problem reali				0	0	0
Searching for and collecting information needed to solve prob		0	0	0	0	0
Thinking up potential solutions to the prob	lem	0	0	0	0	0
Detailing how to build the solution to the prob	lem		0	0	0	0
Assessing and passing judgment on a possible or planned solution to the prob		0	0	0	0	0
Comparing and contrasting two solutions to the problem o particular dimension such as o		0	0	0	0	0
Selecting one idea or solution to the problem from among th conside	ose	0	0	0	0	0
Communicating elements of the design in sketches, diagrams, li and written or oral rep	sts,	0	0	0	0	0
53. What are your summer plans?	o, ta					



The survey title and other general fields are on the **General** tab. Individual survey questions are added and modified on the **Questions** tab. Questions may be re-ordered or deleted from the **Order** tab. You may see a preview of your survey at any time, by going to the **Preview** tab. If you have no further changes click **Finish** to go back to the Management Interface.

<u>Click here to open the Help window.</u>



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Survey Design



This is a preview of how this survey will look. In the preview the survey navigation buttons are inactive, use the section number buttons to view different sections. Some navigation buttons may not appear on your final survey, depending on what access it is assigned. The survey will use the background color of the document in which it is embedded. If you have no further changes click **Finish** at the bottom of this page.

ACADEMIC PATHWAYS STUDY SPRING'07 SURVEY STANFORD UNIVERSITY Please click the [Submit Survey] button to access the next page of the survey, and only after you have completed this page. For best viewing results, please maximize your browser window. 1. What is your expected year of graduation from college? O 2007 0 2008 O 2009 2010 or later 2. Do you intend to complete a major in engineering? O Definitely Not Probably Not Not Sure Probably Yes O Definitely Yes 3. What do you intend to major in? Aeronautical Engineering Chemical Engineering O Civil and Environmental Engineering O Computer Science Electrical Engineering Management Science and Engineering Materials Science and Engineering Mechanical Engineering Other Engineering Arts and Humanities Education

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	Natural Science/Math	
	O Social Science	
	Other Non-engineering	
	O other flow originating (
4.	If you intend to DOUBLE MAJOR, what is the second major you intend to complete? (Mark N/A if you do not intend to double major.)	
	Considerated was solds absoluted and a second secon	
	Aeronautical Engineering	
	Chemical Engineering	
	Civil and Environmental Engineering	
	O Computer Science	
	Electrical Engineering	
	Management Science and Engineering	
	Materials Science and Engineering	
	Mechanical Engineering	
	Other Engineering	
	Arts and Humanities	
	○ Education ○ Natural Science/Math	
	Social Science	
	Other Non-engineering	
	N/A	
	0.1/4	
5.		
	Do you intend to practice, conduct research in, or teach engineering for at least 3 years after graduation?	
٥.	Do you intend to practice, conduct research in, or teach engineering for at least 3 years after graduation?	
٥.	Do you intend to practice, conduct research in, or teach engineering for at least 3 years after graduation? O Definitely Not	
5.		
5.	O Definitely Not	
5.	Definitely Not Probably Not	
5.	 Definitely Not Probably Not Not Sure 	
3.	 Definitely Not Probably Not Not Sure Probably Yes 	
3.	 Definitely Not Probably Not Not Sure Probably Yes 	
	 Definitely Not Probably Not Not Sure Probably Yes Definitely Yes 	
6.	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes	
	 Definitely Not Probably Not Not Sure Probably Yes Definitely Yes 	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A.	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service Other	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service Other	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service Other	
6.	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service Other N/A	
	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service Other N/A We are interested in knowing why you are studying engineering now. Please indicate below the extent to	
6.	Definitely Not Probably Not Not Sure Probably Yes Definitely Yes If you are thinking of going to graduate school in a field OTHER THAN engineering, please mark your most probable area of study. Otherwise, mark N/A. Business Education Humanities and Social Sciences Law Medicine Natural Sciences/Math Public Service Other N/A	

Technology plays an important role in solving society's proble Engineers make more money than most other profession My parent(s) would disapprove if I chose a major other to enginee Engineers have contributed greatly to fixing problems in the wear to be an engineer and the solution of the problems are well in the wear of the solution of the problems are well in the solution of th	dems onals than ering orold paid neer uate other ne to ering	00000	eason	0	Reason
Engineers make more money than most other professio My parent(s) would disapprove if I chose a major other t enginee Engineers have contributed greatly to fixing problems in the w Engineers are well My parent(s) want me to be an engin An engineering degree will guarantee me a job when I gradu A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	onals than ering vorld paid neer uate other ne to ering	0000	0		0
My parent(s) would disapprove if I chose a major other t enginee Engineers have contributed greatly to fixing problems in the w Engineers are well My parent(s) want me to be an engine An engineering degree will guarantee me a job when I gradu A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	than ering vorld paid neer uate other ne to ering	0000			0
Engineers have contributed greatly to fixing problems in the w Engineers are well My parent(s) want me to be an engin An engineering degree will guarantee me a job when I gradu A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	paid neer uate other ne to ering	000			
Engineers are well My parent(s) want me to be an engin An engineering degree will guarantee me a job when I gradu A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	paid neer uate other ne to ering	0		0	0
My parent(s) want me to be an engli An engineering degree will guarantee me a job when I gradu A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	neer uate other ne to ering	0	0	0	0
An engineering degree will guarantee me a job when I gradu A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	uate other ne to ering		0	0	0
A faculty member, academic advisor, teaching assistant or o university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	other ne to ering			0	0
university affiliated person has encouraged and/or inspired m study enginee A non-university affiliated mentor has encouraged and/or inspired	ering				0
A non-university affiliated mentor has encouraged and/or inspired		0	0	0	0
		0	0	0	0
Please indicate how strongly you disagree or agree with each of th		ments:		Agrae	
	isagree Strongly	Disagre	e Agree	Agree	
Creative thinking is one of my strengths	0	0	0	0	
I am familiar with what a practicing engineer does		0	0	0	
I am skilled at solving problems that can have multiple solutions			0	0	
	Lowest 10%	Below Average	Average	Above Average	
	0			e i ii eiuge	
Self confidence (social)			0	0	
Self confidence (social) Leadership ability	0	0	0		10%
				0	10%
Leadership ability	0	0	0	0	10%
Leadership ability Public speaking ability	0	0	0	0	10%
Leadership ability Public speaking ability Math ability	000	000	000	0 0 0	10%
Leadership a bility Public speaking ability Math a bility Science a bility Communication skills Ability to apply math and science principles in solving real world	00000	0000	00000	0 0 0 0 0	10%
Leadership ability Public speaking ability Math ability Science ability Communication skills Ability to apply math and science principles in solving real world problems	000000	000000	000000	000000	10%
Leadership ability Public speaking ability Math ability Science ability Communication skills Ability to apply math and science principles in solving real world problems Business ability	00000000	00000000	00000000	00000000	10%
Leadership ability Public speaking ability Math ability Science ability Communication skills Ability to apply math and science principles in solving real world problems	000000	000000	000000	000000	10%

Communic		0	0	0	0
Ability to apply math and science principles in s world	olving real I problems	0	0	0	0
Busin	ess ability	0	0	0	0
Ability to perform	n in teams	0	0	0	0
Please rate your satisfaction with this institution on ea not have experience with this aspect, mark N/A.	ch of the as	pects of	campus life	listed belo	w. If you do
Very			Very		
Dissatisfi Quality of instruction by faculty	ed Dissatisfie	d Satisfi	ed Satisfied	N/A	
Quality of advising by faculty	0	0	0	0	
Availability of faculty	0	0	0	0	
Quality of instruction by teaching assistants		0			
Quality of advising by teaching assistants	0	0	0	0	
Availability of teaching assistants	0	0	0	0	
Please rate your satisfaction with each of the following N/A.	at this inst	itution. I	If you do not	use this fa	ocility, mark
Very Dissatisfied Dissatisfied Satisfied	Very Satisfied	N/A			
		N/A			
Dissatisfied Dissatisfied Satisfied Computer facilities Libraries O	Satisfied				
Dissatisfied Dissatisfied Satisfied Computer facilities Libraries Classrooms Classrooms	Satisfied	0			
Dissatisfied Dissatisfied Satisfied Computer facilities Libraries O	Satisfied	0			
Dissatisfied Dissatisfied Satisfied Computer facilities Libraries Classrooms Classrooms	Satisfied	o o			
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied	o o		ring relate	
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied	orrent sch	any enginee	ring relate	d classes.)
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied O O O O O O O O O O O O O O O O O O	rrent schoot taken	Occasionally	Frequently	d classes.) N/A
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied	rrent schot taken	Occasionally	Frequently	N/A
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied	orrent schot taken	Occasionally	Frequently	N/A
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied oring the curryou have no	Rarely	Occasionally Occasionally Occasionally Occasionally	Frequently O O O O O O O O O O O O O O O O O O	N/A N/A N/A N/A N/A N/A N/A
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied oring the curryou have no	rrent schot taken Rarely	Occasionally ool year (not inengineering	Frequently engineering related cl	N/A og, math, anasses.)
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied Oring the curryou have no Never Oring the curryou have no Never Oring the curryou have no	rrent schot taken Rarely	Occasionally ool year (not nengineering Occasionally	Frequently o engineering related ci	N/A O O O O O O O O O O O O O O O O O O
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied oring the curryou have no	rrent schot taken Rarely	Occasionally ool year (not inengineering	Frequently engineering related cl	N/A og, math, anasses.)
Dissatisfied Dissatisfied Satisfied Computer facilities	Satisfied Oring the curryou have no Never Oring the curryou have no Never Oring the curryou have no	rrent schot taken Rarely	Occasionally ool year (not nengineering Occasionally	Frequently o engineering related ci	N/A O O O O O O O O O O O O O O O O O O

						1-2 times	1-2 times	Once	2-3 times	
						per	per	per	per	210
		En	culty di	uring cla			Month	Week	Week	
	En			uring cia ffice hou		0	0	0	0	0
Faculty o			-			0	0	0	0	0
				uring cla		0	0	0	0	0
Teaching	_					0	0	0	0	0
Teaching Assistants of	outside	e of cla	ss or o	ffice hou	irs 🔘	0	0	0	0	0
What portion of the cours graduate students?	ses yo	u have	e taker	n during	j the cur	rent sc	hool ye	ar hav	e been	taught primarily l
○ None										
O Very little										
Less than half										
About halfMore than half										
More than hair All or nearly all										
J,										
	Vone	Very little	Less than half	About half		all or all				
	0	0	0	0	0	0				
Team Projects	0	0	0	0	0	0				
Labs	Ö	O	0	0	0	Ö				
	0	0	0	0	0	0				
Seminars										
Some people are involved organizations, campus pu important is it for you to involved. Not Important Somewhat Impor	ıblicat be inv	tions,	studen	t gover	nment,	ocial f				
Some people are involved organizations, campus pu important is it for you to one of the control	iblicat be inv	tions, s	studen in the	ntgover se kind	nment, s	social f ties?	raternii	cy or sc	orority,	sports, etc. How

	 Frequently 										
	requently										
20.	Thinking about your college e you are feeling related to the			uring t	he curr	ent sci	100l yea	r, please	indicate hov	w much pres	sure
								No Pressure	Reasonable Pressure		
	Course load	d (amo	unt of	course i	material	heina	overed)	0	0	0	
	Course pace (the pace at					_		0	0	0	
	course pace (the pace at					_	emic life	0	0	0	
		Dun	41100 00		Jocial al	10 0000	cinic inc				
21.	How well are you meeting the	e worl	cload d	emand	ls of yo	иг сои	rsework	?			
	I am meeting all of ti										
	 I am meeting all of ti 										
	I am meeting most o						ne				
	O I can meet some of t			but can	not mee	t most					
	 I cannot meet any of 	tne de	emanas								
22.	How stressed do you feel in y			ork ele	ht nam						
22.	now stressed do you reer in y	our ce	Juisew	OIK IIG	int now						
	O No stress										
	Some stress										
	Reasonable stress										
	Significant stress										
	Extreme stress										
	Contenie stress										
23.	Do you have any concerns ab	out ve	ur ahi	lity to	finance	VOUL C	ollene e	ducation	,		
23.	bo you have any concerns ab	out ye	ui abi	ity to	mance	your	onege e	u u ca cion			
	None (I am confident	t that T	will ha	ve cuffi	cient fur	nde)					
	Some (but I probably					iusj					
	Major (not sure if I w					mplete	college)				
	O major (mor same in 1 in				40 10 10	piece	conege,				
24.	How do you meet your colleg	e expe	enses?								
				Less		More	All or				
		None	Very	than half	About	than	nearly all				
	Self (income)	O	0								
	Self (savings)	0	0	0	0		0				
	Parents and family	0			0						
	Employer support	0	0			0					
	Scholarships and grants	0	0	0		0					
	Loans	0	0	0	0	0	0				
	Loans										

	No exposure								
	Limited exposure								
	Moderate exposure								
	Extensive exposure								
Abou	t how many hours do you spend in a typical 7-d	lay w	eek do	ing eac	ch of th	e follo	wing?		
		0	1-5	6-10	11-15	16-20	21-25	26-30	more than 30
	Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	0	0	0	0	0	0	0	0
	Working for pay	0	0	0	0	0	0	0	0
	Participating in co-curricular activities (organizations, campus publications, student government, social fraternity or sorority,								
	intercollegiate or intramural sports, etc.)	0	0	0	0	0	\circ	0	0
	Relaxing and socializing (watching TV, partying, exercising, etc.)	0	0	0	0	0	0	0	0
	Providing care for dependents living with you (parents, children, spouse, etc.)	0	0	0	0	0	0	0	0
	Commuting to class (driving, walking, etc.)	0	0	0		0	0	0	0
Pleas	e rate the overall quality of your collegiate exp	erien	ce so f	ar:					
Pleas	e rate the overall quality of your collegiate exp Very dissatisfied Dissatisfied Satisfied	erien	ce so f	ar:					
Pleas	Very dissatisfied Dissatisfied	erien	ce so f	ar:					
Pleas	Very dissatisfiedDissatisfiedSatisfied	erien	ce so f	ar:					
	Very dissatisfied Dissatisfied Satisfied Very satisfied To the following statements best describes you				espect	to an e	nginee	ering m	ajor?
Whic	Very dissatisfied Dissatisfied Satisfied Very satisfied To the following statements best describes you				espect	to an e	ng inee	ering m	ajor?
Whic	Very dissatisfied Dissatisfied Satisfied Very satisfied To the following statements best describes your started at this institution Intending to major in engineering and never do Intending to major in engineering and have/ha	our sit	uation the debts.	with r	espect	to an e	ng inee	ering m	ajor?
Whic	Very dissatisfied Dissatisfied Satisfied Very satisfied The following statements best describes your statements describes you statements describes your statements describes you statement describes	our sit	uation the debts.	with r	espect	to an e	≀ng Ine€	ering m	ajor?
Whic	Very dissatisfied Dissatisfied Satisfied Very satisfied To the following statements best describes your started at this institution Intending to major in engineering and never do Intending to major in engineering and have/ha	oubted ad dou ir majo	the debts.	with r	espect	to an e	ing inec	ering m	ajor?
Whic	Very dissatisfied Dissatisfied Satisfied Very satisfied Very satisfied Intending statements best describes your statements	oubted ad dou ir majo	the debts.	with r	espect	to an e	ing inec	ering m	ajor?
Whic one.)	Very dissatisfied Dissatisfied Satisfied Very satisfied Very satisfied Intending statements best describes your statements	out sit oubted d doui ir majo en ould b	the de debts.	with recision.				ering m	ajor?
Whice one.)	Very dissatisfied Dissatisfied Satisfied Very satisfied To the following statements best describes your statements describ	oubted d doul er majo ring en ould b	uation I the de bots. ors, too gineeri	with recision.				tring m	ajor?

	 Experiences with ENGINEERING-related coursework, faculty, and/or research/internship(s) Experiences with OTHER coursework, faculty, and/or research/internship(s)
30.	My DOUBTS about continuing in an engineering major primarily came from: (Mark one.)
	Not applicable - I never doubted continuing in an engineering major.
	Experiences with PRE-ENGINEERING -related (math, physics, etc) coursework, faculty, and/or oresearch/internship(s)
	Experiences with ENGINEERING-related coursework, faculty, and/or research/internship(s)
	 Experiences with OTHER coursework, faculty, and/or research/internship(s)
31.	Since coming to college, have you had any research experience(s)?
	○ No
	 Yes, in engineering related areas Yes, in non-engineering related areas
	Yes, in both engineering and non-engineering related areas
32.	What is your expected grade point average this academic term?
	O A or A+ (3.9-4.0)
	A- (3.5-3.8) B+ (3.2-3.4)
	○ B (2.9-3.1)
	O B- (2.5-2.8)
	C+ (2.2-2.4)
	○ C (1.9-2.1) ○ C- (1.5-1.8)
	© D (less than 1.4)
33.	Your sex:
	0.00
	○ Male ○ Female
34.	How old will you be on December 31st of this year? (Mark one.)
	O 20 or younger
	O 21
	○ 22 ○ 23
	O 24
	O 25-29
	O 30-34

	○ 35-39 ○ 40-54
	○ 55 or older
35.	Please indicate your ethnic background: (Mark all that apply.)
	☐ White/Caucasian
	African American/Black
	American Indian/Alaska Native
	Asian American/Asian
	Native Hawaiian/Pacific Islander
	Mexican American/Chicano
	□ Puerto Rican
	Other Latino Other
	□ Other
36.	What is your marital status?
36.	what is your marital status?
	○ Not married
	O Married
	○ Divorced ○ Separated
	Separated
	○ Widowed
	○ Widowed
	○ Widowed
37.	○ Widowed How many dependents do you have?
37.	How many dependents do you have?
37.	
37.	How many dependents do you have? None 1 2
37.	How many dependents do you have? None 1 2 3
37.	How many dependents do you have? None 1 2 3 4
37.	How many dependents do you have? None 1 2 3
37.	How many dependents do you have? None 1 2 3 4
37.	How many dependents do you have? None 1 2 3 4
	How many dependents do you have? None 1 2 3 4 5 or more
	How many dependents do you have? None 1 2 3 4 5 or more Are you:
	How many dependents do you have? None 1 2 3 4 5 or more
	How many dependents do you have? None 1 2 3 4 5 or more AU.S. Citizen A Permanent Resident of the U.S.
	How many dependents do you have? None 1 2 3 4 5 or more AU.S. Citizen A Permanent Resident of the U.S.
	How many dependents do you have? None 1 2 3 4 5 or more AU.S. Citizen A Permanent Resident of the U.S.
38.	How many dependents do you have? None 1 2 3 4 5 or more Are you: A U.S. Citizen A Permanent Resident of the U.S. Other
38.	How many dependents do you have? None 1 2 3 4 5 or more Are you: A U.S. Citizen A Permanent Resident of the U.S. Other

	Yes If no, at what age did you immigrate to the U.S.?
40.	Did one or more of your parents/guardians immigrate to the United States?
	O Yes
	○ No
41.	Is English your first language?
	∀aa
	○ Yes ○ No
42.	What is the highest level of education that your mother completed? (Mark one.)
	Old not finish high school
	Graduated from high school
	Attended college but did not complete degree
	Ocompleted an Associate's degree (AA, AS, etc.)
	Completed a Bachelor's degree (BA, BS, etc.)
	Completed a Master's degree (MA, MS, etc.) Completed a Doctoral or Professional degree (JD, MD, PhD, etc.)
43	
43.	What is the highest level of education that your father completed? (Mark one.)
	Old not finish high school
	Graduated from high school
	Attended college but did not complete degree
	Completed an Associate's degree (AA, AS, etc.)
	Completed a Bachelor's degree (BA, BS, etc.)
	 Completed a Master's degree (MA, MS, etc.) Completed a Doctoral or Professional degree (JD, MD, PhD, etc.)
44.	What is your best estimate of your parents' total income last year? Consider income from all sources before taxes. (Mark one.)
	O Less than \$10,000
	O \$10,000-\$14,999
	\$15,000-\$19,999
	\$20,000-\$24,999
	\$25,000-\$29,999
	0 \$30,000-\$39,999
	\$40,000-\$49,999 \$50,000-\$59,999
	\$50,000-\$59,999 \$60,000-\$74,999
	A 4-1 41-1000

	\$75,000-\$99,999
	\$100,000-\$149,999
	\$150,000-\$199,999
	\$200,000-\$249,999
	\$250,000 or more
	Would not describe your facility on (Mark one)
45.	Would you describe your family as: (Mark one.)
	O Low income
	Middle income
	O Upper-middle income
	O High income
46.	What did you do last summer (2006) that was particularly important to you?
47.	Did your experience last summer (2006) advance your interest in studying engineering?
	O Yes
	No
48.	Did you participate over the last summer (2006) in any of the following? (Mark all that apply.)
	☐ Engineering related internship/job
	☐ Engineering related research
	☐ Engineering related coursework
	□ N/A
49.	What do you plan to do after graduating from college?

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50. Did you take the Academic Pathways of People Learning Engineering Survey (APPLES)?
56. 5-1 feet allocate state and the state an
○ Yes
○ No
○ I'm not sure
Please click the SUBMIT SURVEY button below to access the next page of the survey, and ONLY after you have
completed this page. Once you click the button, you will not be able to return to this page.
Save Submit Survey

The survey title and other general fields are on the **General** tab. Individual survey questions are added and modified on the **Questions** tab. Questions may be re-ordered or deleted from the **Order** tab. You may see a preview of your survey at any time, by going to the **Preview** tab. If you have no further changes click **Finish** to go back to the Management Interface.

<u>Click here to open the Help window.</u>



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Survey Design

Help

General Questions Order Preview Finish

This is a preview of how this survey will look. In the preview the survey navigation buttons are inactive, use the section number buttons to view different sections. Some navigation buttons may not appear on your final survey, depending on what access it is assigned. The survey will use the background color of the document in which it is embedded. If you have no further changes click Finish at the bottom of this page.

	ACADEMIC PATHWAYS STUDY SPRING 2007 SURVEY
PLEASE CLICK	THE SUBMIT SURVEY BUTTON ONLY AFTER YOU HAVE COMPLETED THE SURVEY. FOR BEST VIEWING RESULTS, PLEASE MAXIMIZE YOUR BROWSER WINDOW.
In the space	provided, list 5 terms you would use to describe "engineering."
If you were a	sked the same question next week, how likely is it that you would list the same 5 terms?
	sked the same question next week, how likely is it that you would list the same 5 terms?
○ Not	likely newhat likely
◯ No ◯ Sor ◯ Lik	likely newhat likely
○ Not ○ Sor ○ Lik ○ Ver	likely newhat likely aly
○ Not ○ Sor ○ Lik ○ Ver	likely newhat likely aly y likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely
○ Not ○ Sor ○ Lik ○ Ver ○ Ext	likely newhat likely aly y likely remely likely

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0	
	Not likely
	Somewhat likely
	Likely
	Very likely Extremely likely
) Extremely likely
the sp	pace provided, list 5 terms you would use to describe "design."
you w	ere asked the same question next week, how likely is it that you would list the same 5 terms?
	Not likely
(
	Somewhat likely
0	Likely
0	Likely Very likely
0	Likely
0	Likely Very likely
0	Likely Very likely
) Likely) Very likely) Extremely likely
f the tw	Likely Very likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT.
of the tw	Likely Very likely Extremely likely venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting
of the tw	Likely) Very likely) Extremely likely venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming
of the tw	Likely Very likely Extremely likely venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting
of the tw	Likely) Very likely) Extremely likely venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming
of the tw	Likely) Very likely) Extremely likely venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building
of the tw	Likely Very likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating
of the tw	Likely Very likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating
of the tw	Likely Very likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives
of the tw	Likely Verty likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal setting
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	Likely Verty likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal setting Identifying constraints Imagining Iterating Making decisions Making trade-offs
	Likely Verty likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal setting Identifying constraints Imagining Iterating Bushing Iterating Making decisions Making trade-offs Modeling
	Likely Verry likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal setting Identifying constraints Imagining Iterating Making decisions Making trade-offs Modeling Planning
of the two	Likely Very likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Buikling Communicating Decomposing Evaluating Generating alternatives Goal setting Identifying constraints Imagining Iterating Making decisions Making trade-offs Modeling Prototyping Prototyping Seeking information
	Likely Verry likely Extremely likely Venty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT. Abstracting Brainstorming Building Communicating Decomposing Evaluating Generating alternatives Goal setting Identifying constraints Imagining Iterating Making trade-offs Making trade-offs Modeling Planning Prototyping

☐ Testing					
Understanding the problem					
Using creativity					
Visualizing					
Of the twenty-three design activities below, please put a check mark next to the SIX to	LEAST	IMPO	RTANT		
For the following engineering design activities, please indicate your level of confidenc confidence in your ability to model engineering solutions, then mark poor. If you are excellent.	e. For	r exam nely c	onfiden	you ha at in yo Very Good	ve little or r ur ability, n
Defining what the problem really is	0	0	0	Good	0
	0	0	0	0	0
Searching for and collecting information needed to solve the problem	0	0	0	0	0
Searching for and collecting information needed to solve the problem Thinking up potential solutions to the problem	0	0	0	0	0
		0	0	0	0
Thinking up potential solutions to the problem	Ö			0	0
Thinking up potential solutions to the problem Detailing how to build the solution to the problem Assessing and passing judgment on a possible or planned solution to the problem Comparing and contrasting two solutions to the problem on a particular dimension	0				
Thinking up potential solutions to the problem Detailing how to build the solution to the problem Assessing and passing judgment on a possible or planned solution to the problem Comparing and contrasting two solutions to the problem on a particular dimension such as cost	0	0	0	-	
Thinking up potential solutions to the problem Detailing how to build the solution to the problem Assessing and passing judgment on a possible or planned solution to the problem Comparing and contrasting two solutions to the problem on a particular dimension such as cost Selecting one idea or solution to the problem from among those considered	0		0	0	0
Thinking up potential solutions to the problem Detailing how to build the solution to the problem Assessing and passing judgment on a possible or planned solution to the problem Comparing and contrasting two solutions to the problem on a particular dimension such as cost	0	0		0	0

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•	Ne ver	1-2 times per term	1-2 times a month	Once a week	ume	Daily
Defining what the problem really is	0	0	0	0	0	0
Searching for and collecting information needed to solve the problem	0	0	0	0	0	0
Thinking up potential solutions to the problem	0	0	0	0	0	0
Detailing how to build the solution to the problem	0	0	0	0	0	0
Assessing and passing judgment on a possible or planned solution to the problem	0	0	0	0	0	0
Comparing and contrasting two solutions to the problem on a particular dimension such as cost	0	0	0	0	0	0
Selecting one idea or solution to the problem from among those considered	0	0	0	0	0	0
Communicating elements of the design in sketches, diagrams, lists, and written or oral reports	0	0	0	0	0	0
 For the following engineering design activities, please indicate how well you thin in the activity. For example, if you think they are not preparing you at all, then r you extremely well, then mark excellent. 	mark	poor. 1	If you t			
Defining what the problem really	y is	0	0	0	0	0
Searching for and collecting information needed to solve the probl		0	0	0	0	0
Thinking up potential solutions to the probl		0	0	0	0	0
Detailing how to build the solution to the probl	lem	0	0	0	0	0
Assessing and passing judgment on a possible or planned solution to the probl	lem	0	0	0	0	0
Comparing and contrasting two solutions to the problem on a particular dimens		0	0	0	0	0
such as c						
Selecting one idea or solution to the problem from among those conside Communicating elements of the design in sketches, diagrams, lists, and written		0	0	0	0	0
oral repo		0	0	0	0	0
2. You have been asked to design a playground. You have a limited amount of time your design. From the following list, please put a check mark next to the FIVE kines. Availability of materials Body proportions	and inds o	resoui of info	rces to rmatior	gathe 1 you 1	r infor would	mation fo MOST LIK
your design. From the following list, please put a check mark next to the FIVE ki NEED as you work on your design: Availability of materials Body proportions Budget	and inds o	resoui of info	rces to rmation	gathe 1 you 1	r infor would	mation for MOST LIK
your design. From the following list, please put a check mark next to the FIVE ki NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility	and inds o	resoul	rces to r mation	gathe	r infor would	mation fo
your design. From the following list, please put a check mark next to the FIVE kines as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area	e and inds o	resoui	rces to rmation	gathe 1 you 1	r infor would	mation fo
your design. From the following list, please put a check mark next to the FIVE kines as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost	and inds o	resoui	rces to rmation	gathe	r inforwould	mation fo
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability	and inds c	resoui	rces to rmation	gathe	r infor would	mation fo MOST LIK
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns	e and inds c	resoui	rces to r mation	gathe	r infor would	mation fo
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs	e and inds c	resoui	rces to r mation	gathe	r infor would	mation fo
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs Material specifications	and c	resoui of info	rces to	gathe	r inforwould	mation fo
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs	and c	resoul	rces to	gathe	r infor	mation fo
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs Material specifications	and and c	resoui	rces to	gathe	r infor	mation for
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Bedy proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs Material specifications Neighborhood demographics	e and inds c	resoui	rces to	gathe	r infor	mation for
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs Material specifications Neighborhood demographics Neighborhood opinions	e and inds c	resoun	rces to	gathe	r inforwould	mation foo
your design. From the following list, please put a check mark next to the FIVE kine NEED as you work on your design: Availability of materials Body proportions Budget Handicapped accessibility Information about the area Labor availability and cost Legal liability Maintenance concerns Material costs Material specifications Neighborhood demographics Neighborhood opinions Safety	e and inds c	resoun	rces to	gathe	r inforwould	mation foo

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13.	You have been asked to design a playground. You have a limited amount of time and resources to gather information for your design. From the following list, please put a check mark next to the FIVE kinds of information you would LEAST LIKELY NEED as you work on your design:
	Availability of materials
	Body proportions
	□ Budget
	Handicapped accessibility
	☐ Information about the area
	Labor availability and cost
	Legal liability
	Maintenance concerns
	Material costs
	Material specifications
	Neighborhood demographics
	□ Neighborhood opinions
	Safety
	Supervision concerns
	Technical references
	Utilities
	_ VIIICO
14.	Of the 20 items below, please put a check mark next to the FIVE you think are MOST IMPORTANT to practicing engineers.
	Business knowledge
	Communication
	Conducting experiments
	Contemporary issues
	☐ Creativity
	Data analysis
	Design
	Engineering analysis
	Engineering tools
	☐ Ethics
	Global context
	Leadership
	Life-long learning
	Management skills
	Math
	Problem solving
	☐ Professionalism
	Science
	Societal context
	Teamwork
15.	Please rate how well prepared you are to incorporate each of the following items while practicing as an engineer:
	Not at - Very
	all prepared well
	prepared prepared
	Business knowledge
	Communication O O O O O Conducting experiments
	Conducting experiments O O O O Contemporary issues O O O
	Concemporary issues

	Creativi						
	Data analys						
	Desi		0		(
	Engineering analyse Engineering too						
	Ethi		0				
	Global conte		0		0		
	Leadersh		0		0		
	Life-long learni		C		Č		
	Management ski		C		C		
	Ma		0		0		
	Problem solvi	ing O		0		0	
	Professionalis	sm 🔘		0	(0	
	Scien	ice 🔘		0	(0	
	Societal conte	ext		0	(
	Teamwo	ork 🔘		0		0	
	Please list FIVE factors you	u think we	ould b	e importan	t in ye	our evaluatio	on of the sites.
17.		Not at all prepared	are to	consider ea	ach of	Very well prepared	ng items as a practicing engineer:
	Global context		0	0	0	0	
			0	0	0	0	
	Natural context		_			_	
	Natural context Societal context		0				
		0	0	0	0	0	
18.	Societal context Technological context	0	0	0	0	0	months months months months 10
18.	Societal context Technological context During your undergraduatengineering?	e years, h	o now m	any month:	o of ex	O Reperience ha	more 1-2 3-4 5-6 7-8 9-10 than 2 months months months 10 months
18.	Societal context Technological context During your undergraduatengineering?	e years, h	ow m	any months	of ex	None	1-2 3-4 5-6 7-8 9-10 than months months months months months 10 months
18.	Societal context Technological context During your undergraduatengineering?	e years, h	ow m	any month:	of ex	None	more 1-2 3-4 5-6 7-8 9-10 than 2 months months months 10 months

Part-time engineering work (e.g., internship, coop, summer job) Full-time engineering work (e.g., internship, coop, summer job)	0	0	0	00	00	0	00
ease provide a short description of your experience(s) with aca	demic	researc	h and/	or profe	ssional	engine	ering.

The survey title and other general fields are on the **General** tab. Individual survey questions are added and modified on the **Questions** tab. Questions may be re-ordered or deleted from the **Order** tab. You may see a preview of your survey at any time, by going to the **Preview** tab. If you have no further changes click **Finish** to go back to the **Nanagement Interface**.

<u>Click here to open the Help window.</u>

General Questions Order Preview Finish