

Chemical Engineering Year-End Survey 2003

This survey is being taken by chemical engineering students at all academic levels in chemical engineering. Its results help the faculty to improve course offerings, curricular structure, and learning opportunities in our program.

Please complete only the questions that are appropriate, **BUT YOU MUST COMPLETE THE SURVEY TO GET THE DESIGNATED CREDIT IN YOUR COURSE.** Your PIDs are being used to track who takes the survey; PIDs are NOT matched to your answers, so the survey is totally anonymous. You may provide your name at the end of the survey if you wish. Also, please note that the red asterisk is not being used to indicate required questions. **WEDNESDAY, APRIL 30th 2003 IS THE LAST DAY TO TAKE THE SURVEY.** Thank you for your participation!

Req'd Public Content

No	Yes	BACKGROUND	
1	No	Yes	Your gender:
			Male
			Female
2	No	Yes	During the past year were you enrolled in less than 12 hours either semester (excluding co-op)?
3	No	Yes	Did you transfer to MSU from another institution?
4	No	Yes	Have you participated in a co-op position?
5	No	Yes	What is your grade point range?
			4.0-3.5
			3.5-3.0
			3.0-2.5
			2.5-2.0
			2.0-1.5
6	No	Yes	Please check all courses you have completed to date.
			CHE 201 Material and Energy Balances
			CHE 311 Fluid Flow and Heat Transfer
			CHE 312 Mass Transfer and Separations
			CHE 316 Unit Operations Laboratory
			CHE 321 Thermodynamics
			CHE 422 Transport Phenomena
			CHE 431 Chemical Reaction Engineering
			CHE 432 Process Dynamics and Control
			CHE 433 Chemical Engineering Design
			CHE 434 Chemical Engineering Design
			CHE 472 Composite Materials Processing
			CHE 473 Principles in Polymers & Materials Systems
			CHE 481 Biochemical Engineering
			CHE 490 Independent Study
			CHE 491 Selected Topics

7	No	Yes	Are you currently working toward a chemical engineering option? Check one that applies to you.
			Biochemical engineering
			Environmental engineering
			Food science
			Polymer science
			None of the above (straight chemical engineering)
			Undecided
	No	Yes	STT351
8	No	Yes	Have you taken STT 351 or its equivalent? (If no, proceed to question 11)
9	No	Yes	What percentage of the material were you familiar with before taking the course?
			10 %
			20 %
			30 %
			40 %
			50 %
			60 %
			70 %
			80 %
			90 %
			100 %
10	No	Yes	Rate your mastery of the following topics as a result of taking STT 351. (1: I gained no mastery of this topic in this course to 5: I mastered this topic as a direct result of STT 351)
			Data representation
			Random variables
			Probability models
			Hypothesis testing
			Confidence intervals
			Statistical process control
			Simple linear regression
			Model selection
	No	Yes	ECE345
11	No	Yes	Have you taken ECE 345? If you answer no, please continue on Question 16.
12	No	Yes	Which did you find more useful in ECE 345, the lecture, the laboratory, or both?
			Lecture
			Lab
			Both about equal
13	No	Yes	Which of the topics covered in the class did you find useful and/or interesting? Check all the apply.
			The basics: Kirchoff's law, ideal independent and dependent voltage and current sources, resistances, capacitances,

			inductances
			DC, AC, and transient circuit analysis
			Semi-conductor diode behavior, models, and applications
			Operational amplifiers and active filter design
			Digital-logical fundamentals, including K-maps, combinational circuit design using NAND gates
			Analog-to-digital converters and digital counters
			Working on teams
14	No	Yes	Provide your perception of the relevance of ECE 345 to the chemical engineering curriculum (1: low relevance to 5: high relevance) Relevance of ECE 345
15	No	Yes	The Department of Electrical and Computing Engineering is continuing to improve the ECE 345 course. Please provide constructive suggestions on how best this could be accomplished
	No	Yes	STUDENT ORGANIZATIONS
16	No	Yes	In which organizations have you participated during your time at MSU? Check all that apply.
			AICHE
			Omega Chi Epsilon
			NOBCCHE
			Tau Beta Pi
			Fraternity
			Sorority
			ISPE
			SPE
			SWE
			Biomedical Engineering Society
			Student athlete
			!other
17	No	Yes	If you did NOT attend Symposium Day on April 7, 2003 skip this section and go to Question 19. If you did, please rate your agreement to the following statements. (1: Strongly disagree to 5: Strongly agree) I found Symposium Day to be beneficial to my education at MSU. Symposium Day provided useful career information. Symposium Day gave me an opportunity to establish industry contacts.
18	No	Yes	Please provide other useful comments for Symposium Day organizers.
	No	Yes	CEM 391 AND 391
19	No	Yes	If you have not taken CEM 391 and 392, please skip this section and go to Question 25. If you have, in which academic year did you take these courses? 2002-2003 (this academic year)

			2001-2002
			2000-2001
			Before 2000-2001
20	No	Yes	<p>Rate the following aspects of the physical chemistry courses as to their usefulness in understanding the material. (1: Not useful to 5: Highly useful)</p> <p>Textbook (391)</p> <p>Instructor (391)</p> <p>Recitation (391)</p> <p>Teaching Assistants (391)</p> <p>Homework (391)</p> <p>Exams (391)</p> <p>Textbook (392)</p> <p>Instructor (392)</p> <p>Recitation (392)</p> <p>Teaching Assistants (392)</p> <p>Homework (392)</p> <p>Exams (392)</p>
21	No	Yes	<p>Rate the relevance of the following courses to chemical engineering (1: Not relevant to 5: Highly relevant).</p> <p>CEM 391</p> <p>CEM 392</p>
22	No	Yes	<p>Rate the extent of effort made by the instructor of each of the following courses to explain the relevance of the material to chemical engineering (1: No effort to 5: Significant effort).</p> <p>CEM 391</p> <p>CEM 392</p>
23	No	Yes	<p>How redundant are the following courses with respect to CHE courses (1: Highly redundant to 5: Enlightening).</p> <p>CEM 391</p> <p>CEM 392</p>
24	No	Yes	<p>We are in the process of working with Chemistry on the physical chemistry sequence. How do you think the physical chemistry sequence should be improved?</p>
	No	Yes	COMPUTER SCIENCE
25	No	Yes	<p>Which computer science courses (or equivalents) have you taken? Check all boxes that apply.</p> <p>CSE 131</p> <p>CSE 230</p> <p>!other</p>
26	No	Yes	<p>What percentage of the course material were you familiar with before taking the course?</p> <p>10 %</p> <p>20 %</p> <p>30 %</p> <p>40 %</p>

		50 %
		60 %
		70 %
		80 %
		90 %
		100 %

27	No	Yes	What percentage of the course material has been useful to you in other courses?
			10 %
			20 %
			30 %
			40 %
			50 %
			60 %
			70 %
			80 %
			90 %
			100 %

28	No	Yes	Below are listed several computing tools and skills that are useful to chemical engineers. Indicate where you obtained skills in each of the following topics according to the following scale 5: as a result of taking CSE 131 or 230; 4: from a ChE course; 3: on my own or from a peer; 2: from another CSE course; 1: I am not able to apply this topic for homework.
			Setting up a logical flowsheet to solve a numerical problem
			Performing repetitive calculations by looping
			Fitting a line to data
			Fitting a non-linear equation to data
			Solving an equation by successive substitution
			Numerical solution of an integral
			Solving a differential equation using software
			Programming in BASIC, FORTRAN, C, or other high level language

	No	Yes	CHE 301: CHEMICAL ENGINEERING AS A PROFESSION
29	No	Yes	If you have not taken ChE 301, please skip to Question 32. Otherwise, please consider the list below of topics and activities that have been included in ChE 301. For this list, please check "1" if you feel the topic or activity should be REMOVED from the course, check "2" if the topic should be KEPT BUT REVISED, and check "3" if it should be KEPT AS IS in the course.
			Industrial/alumni speakers
			Oral communication skills
			Listening skills
			Time management
			Team skills
			Finance

			Green chemistry
			Ethics
			Quality control (ISO standards)
			The chemical industry (commodity, specialty, fine chemicals)
			Student organizations (AIChE, Omega Chi Epsilon, Tau Beta Pi, etc.)
			Student presentations
			Refreshments
			Student Management Team
30	No	Yes	If you suggested revisions to a topic or activity, please provide your ideas on how this revision should be done.
31	No	Yes	Please suggest any new topics that should be covered in ChE 301?
	No	Yes	CO-OP EDUCATION/INTERNSHIPS
32	No	Yes	Indicate what best describes your work experience.
			Co-op program
			Internship
			Full-time employment in an engineering-related job
			Campus research
			Non-technical job
			None
33	No	Yes	What best describes the length of your work experience?
			Summers only
			One semester only
			One to two years
			More than two years
			No work experience
34	No	Yes	Please answer this question only if you are a graduating senior. All other students, please skip to Question ???. What are your plans for the next three to six month period with regard to job and/or career? Check the ONE that applies best.
			I have accepted a job.
			I have interviews scheduled.
			I will continue my job search.
			I will be attending graduate or professional school.
			I will take a temporary job and continue a job search at a later time.
			I will take a temporary job, but have no plans to continue searching.
			I will take a vacation and continue a job search at a later time.
			I will not be taking a job voluntarily (e.g., marriage, family).
			I have no plans.
			!other
35	No	Yes	If you indicated that you accepted a job or will be attending a graduate/professional school, please indicate the employer or

institution.

	No	Yes	CONCLUSIONS
36	No	Yes	How would you improve either the curriculum or this survey?
37	No	Yes	Briefly discuss the strengths and weaknesses of the chemical engineering department at MSU.
38	No	Yes	My name is (optional):

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