

# Chemical Engineering & Materials Science

## Alumni Questionnaire

The Department of Chemical Engineering & Materials Science is continually seeking ways to improve its curricula and operations. As alumni of our programs, your involvement in this process as an important constituency is crucial for maintaining quality and professional relevance of our curricula and program objectives. We are seeking your participation in the attached survey. The questions ask about your career experiences since graduating from MSU and provide an opportunity for input on how we might adjust or redesign our curriculum to better prepare chemical engineers and materials science engineers for the future. The entire survey will take about 20 minutes of your time. Although we request your name and contact information (optional), the contents of the survey will be kept confidential. If you have problems with the survey, please contact Dr. Daina Briedis at [briedis@egr.msu.edu](mailto:briedis@egr.msu.edu). Please note that the deadline for receiving your input is April 15, 2003. The results of the survey will be compiled and made available to you in a future departmental newsletter.

Male  Female

List your degree(s), the field, and year received. If a degree is not from MSU, please list the institution. (E.g., B.S ChE, 1986; Ph.D. MSM, 1992; M.S. ChE, 1995, Frontier State University)

Please indicate your years of work experience in chemical engineering/materials science or allied field.

Also indicate, if any, your years of work experience outside chemical engineering or materials science/technical field.

What is your current nearest metropolitan location (City and State)?



Please select the approximate number of promotions you have had over your career either within a position or from one position to another.

With regards to post-graduate training and lifelong education, please check all below that apply to you.

- Passed the Fundamentals of Engineering Examination
- Am in the process of pursuing licensure
- Have other licensure or certification
- Have attended one or more professional/society conference(s)
- Am a member of a professional society
- Have held a leadership position in a professional society
- Have pursued a graduate degree
- Have earned a Masters degree
- Have earned a PhD
- Have earned other graduate degree
- Have participated in shortcourses, on-site training and/or workshops

Please list the significant job-related supervisory or leadership roles you have held. Next to each, list the approximate number of people you supervised in each of these positions.

Please describe other work that you do in your community (e.g., volunteer work, service work, political office, etc.) also noting instances of leadership roles

What do you feel are your most significant professional accomplishments?

Chemical Engineering: Rate the value of the content of the following courses in your career thus far. Please use the rating scale of 1 = of no value to 5 = extremely valuable. Leave the rating blank if you did not take the course.

	1	2	3	4	5
Calculus and Differential Equations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Organic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material and Energy Balances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Momentum Transport (fluid flow)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat and Mass Transfer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChE as a Profession (first offered 1998)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChE Thermodynamics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical Reactor Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Process Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Process Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport Phenomena	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChE Unit Ops Laboratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composite Mat'ls or Bioprocessing Lab	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Circuits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rate your knowledge upon graduation on the subjects covered in these courses. Please use the rating scale of 1 = no knowledge to 5 = significant knowledge. Leave the rating blank if you did not take the course.

	1	2	3	4	5
Calculus and Differential Equations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Organic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material and Energy Balances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Momentum Transport (fluid flow)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat and Mass Transfer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChE as a Profession (first offered 1998)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChE Thermodynamics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical Reactor Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Process Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Process Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport Phenomena	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChE Unit Ops Laboratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composite Mat'ls or Bioprocessing Lab	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Circuits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Did you take a class not indicated above, that was highly valuable to you? If so, what was it?

Which additional courses do you feel would have been valuable in preparation for your career?

What recommendations do you have for changing the program and/or eliminating courses?

How satisfied do you consider yourself with: (1 Not at all, 2 Slightly, 3 Satisfied, 4 Very, 5 Extremely)

	1	2	3	4	5
your position (in the company)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
your duties?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
your education?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
your general knowledge in your field?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What other factors related to your undergraduate degree but not mentioned in this survey have been important to your personal success?

Would you recommend MSU's chemical engineering or materials science program to a friend or family member who was considering studying in this field? Why or why not?

Thank you for your contribution to our improvement program! If you wish to add additional comments not discussed on this survey, Please feel free to enter those below.

Comment box:

If you wish, please provide the contact information below. It will not be associated with survey responses; it will be separated from the survey to update our alumni records.

Name:

Current Address:

If expecting to move within the next year, Forwarding Address:

e-mail address:

Additional Comments: