SES CoE

Start of Block: CoE - CHE

Q1.1 Please provide any comments that you have on the sophomore curriculum in the chemical engineering major.

Q1.2 Please provide any comments that you have regarding the chemical engineering curriculum.

Q1.3 What is your opinion of Senior Design?

Q110 List those courses in the chemical engineering major that you found most satisfying and what features made them the most satisfying.

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____
- (4) (4) _____
- (5) (5) _____

Q111 List those courses in the chemical engineering major that you feel need improvement and describe why.

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____
- (4) (4) _____
- (5) (5) _____

Q1.6 Rate your interaction with faculty in the department.

▼ Very Satisfied (5) ... Very Dissatisfied (1)

Q1.7 Rate your satisfaction with your departmental advisor.

▼ Very Satisfied (5) ... Very Dissatisfied (1)

Q1.8 Please rate your satisfaction with the chemical engineering lab courses.

▼ Very Satisfied (5) ... Very Dissatisfied (1)

Q1.9 Please provide any comments you have on the chemical engineering lab courses.

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Q1.10 Please rate your satisfaction with elective courses.

▼ Very Satisfied (5) ... Very Dissatisfied (1)

Q1.11 Which elective courses do you recommend most strongly to CHE undergraduates?

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Display This Question:

If COOP_COMPLETED = 1

Q1.12 Please rate your satisfaction with your cooperative education experience.

- Very Satisfied (5)
- Satisfied (4)
- Dissatisfied (2)
- Very Dissatisfied (1)

Q1.16 Please provide any additional comments that you have for the chemical engineering department.

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Q1.17C Please provide feedback on the following Program Educational Objectives as established by the Chemical Engineering program:

1. Our graduates will succeed in careers requiring strong skills in engineering, science, creative problem solving, communication, teamwork, and appropriate leadership.2. Our graduates will continue their professional development through life-long learning involving self- or group-study and on-the-job training.3. Our graduates will hold paramount the safety, health, and welfare of the public. They will conduct their work ethically and understand its global impact and sustainability.4. Our graduates will be thought leaders in their area of expertise who are

prepared to contribute to research, development, and industrial innovation at the forefront of chemical engineering and related fields.

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End of Block: CoE - CHE

Start of Block: CoE - EE & CE

ECE_201 What topics would you have preferred in the first 2 years of the ECE curriculum to better prepare you for your coop?

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_____

_____

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ECE_202 Do you think you received enough exposure to programming? If not, what programming language(s) would you have liked to learn?

_____

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_____

ECE_203 List up to four courses in ECE that best prepared you for your profession and why

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____
- (4) (4) _____

ECE_204 List any topics you wished to have been taught. Also, indicate any specific course(s) where those topics belong.

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____
- (4) (4) _____

X→

ECE_205 Please rate your interaction with the faculty in the department

- Very satisfied (4)
- Satisfied (3)
- Dissatisfied (2)
- Very dissatisfied (1)

X→

ECE_206 Please rate your satisfaction with your departmental advisor

- Very satisfied (4)
- Satisfied (3)
- Dissatisfied (2)
- Very Dissatisfied (1)

ECE_207 Please rate your satisfaction with the laboratory experience in ECE

- Very satisfied (4)
- Satisfied (3)
- Dissatisfied (2)
- Very dissatisfied (1)

ECE_208 Please rate your satisfaction with elective courses

- Very satisfied (4)
- Satisfied (3)
- Dissatisfied (2)
- Very dissatisfied (1)

ECE_214 Which elective courses would you strongly recommend to ECE undergraduates and why?

_____

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ECE_209 Please rate your satisfaction with your cooperative education experience

- ○ Very satisfied (1)
- ○ Satisfied (2)
- ○ Dissatisfied (3)
- ○ Very Dissatisfied (4)

ECE_210 Please identify your primary function at each of your co-ops

First Co-op (1)	▼ Sales (1) ... Other (5)
Second Co-op (2)	▼ Sales (1) ... Other (5)
Third Co-op (3)	▼ Sales (1) ... Other (5)

ECE_211 Which co-op job, if any, was most instrumental in obtaining your current job or higher salary at your current job?

_____

ECE_212 Do you think that there is a weakness in the ECE curriculum that caused you to not get a co-op job that you wanted and, if so, what job was that?

_____

ECE_213 Select up to 2 areas of Electrical and Computer Engineering that your current job will involve.

- [ ] Cyber security (1)
- [ ] Machine learning & Data Analysis (2)
- [ ] Signal processing (3)
- [ ] Power and Energy Systems (4)
- [ ] Embedded computing, cyber-physical systems & sensor networks (5)
- [ ] Computing systems (6)
- [ ] Control Systems, Robotics, and Automation (7)
- [ ] Biomedical systems (8)

End of Block: CoE - EE & CE

Start of Block: CoE - MECH

MECH_201 Please indicate how strongly you agree or disagree with the following statements on the freshman and sophomore curriculum

Math and science courses provided good backgrounds for MEM courses. (1)	▼ Strongly Agree (1) ... Strongly Disagree (5)
Freshmen computational lab courses helped to prepare for MEM courses. (4)	▼ Strongly Agree (1) ... Strongly Disagree (5)
Freshmen design sequence (ENGR 10x) provided good hands-on lab experience in the freshman year. (5)	▼ Strongly Agree (1) ... Strongly Disagree (5)
Sophomore ENGR core courses (ENGR 2XX) helped to prepare for MEM courses. (6)	▼ Strongly Agree (1) ... Strongly Disagree (5)
Sophomore MEM core courses (MEM 201, 202, 238) helped to prepare for upper level MEM courses. (7)	▼ Strongly Agree (1) ... Strongly Disagree (5)

MECH_202 Please provide any comments that you have on the freshman and sophomore curriculum in the MEM major

- ○ Freshman Curriculum (1) _____
- ○ Sophomore Curriculum (2) _____

MECH_203 Please indicate how strongly you agree or disagree with the following statements on the MEM curriculum and courses

MEM education has prepared me for a career as a mechanical engineer. (1)	▼ Strongly Agree (1) ... Strongly Disagree (5)
MEM course sequence is well designed to cover the breadth and depth of the field. (4)	▼ Strongly Agree (1) ... Strongly Disagree (5)
MEM curriculum offered an appropriate "balance" between theory and practical application. (5)	▼ Strongly Agree (1) ... Strongly Disagree (5)
Lab courses allowed me to apply what I learned in lectures. (6)	▼ Strongly Agree (1) ... Strongly Disagree (5)
Senior Design offered me the opportunity to apply the knowledge and skills I learned as an MEM student. (7)	▼ Strongly Agree (1) ... Strongly Disagree (5)

MECH_204 List the MEM required courses that you found most satisfying and what features made them the most satisfying

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____

MECH_205 List the MEM required courses that you feel need improvement and describe why

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____

MECH_206 Which elective courses do you recommend most strongly to MEM undergraduates?

- (1) (1) _____
- (2) (2) _____
- (3) (3) _____

MECH_207 Please provide any comments that you have on MEM curriculum and courses regarding the following:

- Lab courses (1) _____
- Use of technology (2) _____
- Use of computer programming and simulation (3) _____
- Other (4) _____

MECH_208 Please indicate how strongly you agree or disagree with the following statements on your co-op experiences

I was able to apply the knowledge learned in lectures and labs to my Co-Op experience. (1)	▼ Strongly Agree (1) ... Strongly Disagree (5)
My Co-Op experiences were valuable. (4)	▼ Strongly Agree (1) ... Strongly Disagree (5)

MECH_211 Please provide any additional comments that you have for MEM department regarding the following

- ○ Quality of instruction (1) _____
- ○ Quality of TA (2) _____
- ○ Quality of MEM academic advisors (3) _____
- ○ Interaction with MEM faculty (4) _____
- ○ In the loop regarding department news and events (5) _____
- ○ Other (6) _____

End of Block: CoE - MECH

Start of Block: CoE - MSE

Q5.1 What led you to choose Materials Science and Engineering at Drexel University for your undergraduate degree?

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_____

_____

_____

_____

Q5.2 What did you like most about the Materials Science and Engineering department?

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Q5.3 What did you like least about the Materials Science and Engineering department?

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Q5.4 What would you most like to see changed, either in the Materials Science and Engineering department or in the undergraduate program?

_____

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Q103 Please rate your interaction with the faculty in the MSE department.

▼ Excellent (5) ... Poor (1)

Q104 How do you rate the "tracks" of the technical elective courses?

▼ Excellent (5) ... Poor (1)

Display This Question:

If COOP_COMPLETED = 1

Q5.5 Do you feel your co-op experience was valuable? Why or why not?

Q5.6 Did the senior design sequence successfully tie everything together? Why or why not?

Q5.7 Where do you see yourself in five years?

Q5.8 Do you have a "Career Plan" to get there? If so, what is your plan?

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Q5.9 Do you have any additional comments about your experiences at Drexel and as a student in the Materials Science and Engineering Department?

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End of Block: CoE - MSE

Start of Block: CoE - ET

Q111 Which Engineering Technology degree(s) did you complete at Drexel?

- ☐ B.S.ET - Electrical (1)
- ☐ B.S.ET - Mechanical (2)
- ☐ B.S.ET - Industrial (3)
- ☐ B.S.ET - Biomedical (4)

Q112 Which of the following contributed to your interest in Engineering Technology (ET)? (Check all that apply)

- [ ] Family Member (1)
- [ ] High school teacher or adviser (2)
- [ ] Faculty or academic adviser (3)
- [ ] Visited ET department as high school student (4)
- [ ] Drexel sponsored high school recruiting activity (5)
- [ ] ET Callout/Lab tours (6)
- [ ] Advice of ET student (7)
- [ ] Friend recommended ET (8)
- [ ] Research opportunities (9)
- [ ] Website (10)
- [ ] Other (please specify) (11) _____

Q113 What led you to choose Engineering Technology (ET) at Drexel University for your undergraduate degree?

- ○ Entered Drexel as an ET major (1)
- ○ Entered Drexel as another major (3)

Display This Question:

If What led you to choose Engineering Technology (ET) at Drexel University for your undergraduate de... = Entered Drexel as another major

Q114 What major did you enter Drexel as?

- ○ Undecided (1)
- ○ CBE (2)
- ○ MEM (3)
- ○ CAEE (4)
- ○ ECE (5)
- ○ CS (6)
- ○ BMES (7)
- ○ Other (please specify) (8) _____

Q115 Which course(s) in Engineering Technology best prepared you for your profession?

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Q116 Which course(s) do you wish had been offered in the ET Dept. that was/were not offered?

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Q117 What are the most important special skills and knowledge you gained as a result of completing your major?

_____

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Q118 Please rate your level of satisfaction with the following items:

Use of technology in the ET curriculum (1)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Teaching ability of the TAs (2)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Availability of ET faculty for help in class work (3)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Assistance of ET faculty in helping students with professional development (4)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Quality of ET Academic Advising (5)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Quality of ET Department laboratories (6)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Quality of ET Department equipment (7)	▼ Very Satisfied (4) ... Very Dissatisfied (1)
Professional background of ET faculty (8)	▼ Very Satisfied (4) ... Very Dissatisfied (1)

Q119 Additional comments on any of the above?

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Q121 I had at least one Engineering Technology professor who made me excited about learning.

▼ Strongly agree (4) ... Strongly disagree (1)

Q122 My Engineering Technology professors cared about me as a person.

▼ Strongly agree (4) ... Strongly disagree (1)

Q123 I had a mentor in the Engineering Technology Department who encouraged me to pursue my goals and dreams.

▼ Strongly agree (4) ... Strongly disagree (1)

Q124 The course sequence made engineering technology concepts easy to understand.

▼ Strongly agree (4) ... Strongly disagree (1)

Q125 The ET curriculum offered an appropriate "balance" between theory and practical application.

▼ Strongly agree (4) ... Strongly disagree (1)

Q145 Lab courses allowed me to apply what I learned in lectures.

▼ Strongly agree (4) ... Strongly disagree (1)

Display This Question:

If COOP_COMPLETED = 1

Q126 Please list the names of your co-op employers:

- Co-op Employer 1 (Include name, email of supervisor) (1) _____
- Co-op Employer 2 (Include name, email of supervisor) (2) _____
- Co-op Employer 3 (Include name, email of supervisor) (3) _____

Display This Question:

If COOP_COMPLETED = 1

Q127 I was able to apply the knowledge learned in lectures and labs to my Co-Op experience.

▼ Strongly agree (4) ... Strongly disagree (1)

Q128 Senior Design offered me the opportunity to apply the knowledge and skills I learned as an ET student.

▼ Strongly agree (4) ... Strongly disagree (1)

Q129 My previous coursework prepared me for Senior Design.

▼ Strongly agree (4) ... Strongly disagree (1)

Q149 Please provide any additional comments about Senior Design below.

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Q130 I believe my ET education has prepared me for a career in engineering.

▼ Strongly agree (4) ... Strongly disagree (1)

Q131 Overall, I am satisfied with my Engineering Technology education at Drexel University.

▼ Strongly agree (4) ... Strongly disagree (1)

Q132 In which broad area will you be employed?

- [ ] Providing support for the manufacturing of a product (for example, production of a computer chip or turbine blade) (1)
- [ ] Research and Development (2)
- [ ] Product Design (3)
- [ ] Sales (4)
- [ ] Management (5)
- [ ] Materials and Process Selection (6)
- [ ] Other (please describe) (7) _____
- [ ] Not applicable (8)

Q133 Are you currently a member of any technical professional societies? (e.g. ASME, ASNT, SME, SAE, IEEE, etc.)

- ○ Yes (1)
- ○ No (2)

Display This Question:

If Are you currently a member of any technical professional societies? (e.g. ASME, ASNT, SME, SAE, I... = Yes

Q134 If yes, please specify the professional society.

_____

Q135 What did you like *least* about the ET Department?

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Q136 What would you *most* like to see changed, either in the Department or in the Undergraduate program?

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Q137 What skills and abilities that you developed outside of the department are the most valuable to you?

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Q138 What advice would you give to first year students thinking of majoring in ET?

_____

Q139 Where do you see yourself in five years' time?

Q140 Do you have a "Career Plan" to get there?

- Yes (1)
- No (2)

Display This Question:

If Do you have a "Career Plan" to get there? = Yes

Q141 Please describe your "Career Plan."

Q142

Please choose how much you agree with each of the following statement regarding the Engineering Technology program educational objectives.

	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	N/A (6)
I apply discipline-specific theory, experiments and real world experience to interpret, analyze and solve current and emerging technical problems. (1)	○	○	○	○	○	○
I communicate clearly and persuasively with technical and non-technical people in oral, written and graphical forms. (2)	○	○	○	○	○	○
I function individually and on teams to design quality systems, components or processes in a timely, responsible and creative manner. (3)	○	○	○	○	○	○

I demonstrate behavior consistent with professional ethics and am cognizant of social concerns as they relate to the practice of engineering technology. (4)	○	○	○	○	○	○
I strive for professional growth and engage in lifelong learning. (5)	○	○	○	○	○	○

Q143 Do you have any additional comments about your experiences at Drexel and as a student in the Engineering Technology Department?

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End of Block: CoE - ET

Start of Block: CoE - CMGT

Q8.1 How did you learn of Construction Management as a major?

_____

Q8.2 In addition to Drexel, which other Construction Management programs have you applied to?

Q8.3 What made you choose Drexel University?

Q8.5 What changes would you make to improve the program for future CMGT students at Drexel?

_____

_____

Q8.6 Please list up to four (4) strengths of the Construction Management program.

- Strength 1 (1) _____
- Strength 2 (2) _____
- Strength 3 (3) _____
- Strength 4 (4) _____

Q8.7 Please list up to four (4) weaknesses of the Construction Management program.

- Weakness 1 (1) _____
- Weakness 2 (2) _____
- Weakness 3 (3) _____
- Weakness 4 (4) _____

Q107 On a scale of 1-4, with 4 being the best and 1 being the worst, please rate how well you think that the Construction Management program (CMGT) prepared you in the following areas?

Demonstrate knowledge of relevant subject matter described in the American Council for Construction Education (ACCE) guidelines. (1)	▼ Very Prepared (1) ... Very Unprepared (4)
Demonstrate leadership qualities through experiential learning. (2)	▼ Very Prepared (1) ... Very Unprepared (4)
Apply various techniques and methods to efficiently and effectively plan and control construction projects. (3)	▼ Very Prepared (1) ... Very Unprepared (4)
Understand the value of and apply sustainable building practices to optimize use of available resources. (4)	▼ Very Prepared (1) ... Very Unprepared (4)

Q8.9 Have you considered the MS in Construction Management at Drexel?

- ○ Yes (1)
- ○ No (2)

End of Block: CoE - CMGT

Start of Block: CoE - AE, CIVE, & ENVE

CAEE_01 Regardless of your major, we believe our curriculum focuses on preparing you to analyze, design, construct, and manage and operate systems or facilities (buildings, infrastructure, treatment plants). Please rate your sense of your preparation to engage in each of these tasks.

Analysis of systems or facilities (1)	▼ Very Prepared (1) ... Very Unprepared (4)
Design of systems or facilities (2)	▼ Very Prepared (1) ... Very Unprepared (4)
Construction of systems or facilities (3)	▼ Very Prepared (1) ... Very Unprepared (4)
Management and operation of systems or facilities (4)	▼ Very Prepared (1) ... Very Unprepared (4)

CAEE_02 What are your career goals? (check all that apply)

- [ ] To practice professional engineering (1)
- [ ] To open my own business (2)
- [ ] To engage in construction, construction management or property management (3)
- [ ] To rise in management in an established organization (4)
- [ ] To work in the public sector (5)
- [ ] To work in research or in academia (6)
- [ ] To work in a field other than engineering such as law, medicine, or business (7)
- [ ] Other (please specify) (8) _____

CAEE_03 Indicate the status of your plans after graduation

- ○ Plan to go to graduate school (in engineering) full time (1)
- ○ Plan to go to other graduate or professional school (not in engineering) full time (2)
- ○ Still looking for a full time position (3)
- ○ Have accepted a full time position (4)
- ○ Other (please specify) (5) _____

CAEE_04 Indicate your degree of satisfaction with different aspects of your Drexel experience

Courses in the department (CAEE_04_1)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
Faculty in the department (CAEE_04_2)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
Overall structure of curriculum (CAEE_04_3)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
First two years of engineering curriculum (CAEE_04_4)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
Faculty outside the department (CAEE_04_5)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
Courses outside the department (CAEE_04_6)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
Advising in the first 2 years (CAEE_04_7)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)
Advising in the last 3 years (CAEE_04_8)	▼ Very Satisfied (1) ... Not Applicable (N/A) (5)

CAEE_05 The following are specific outcomes that our curriculum is designed for you to attain. Please indicate your perceived degree of attainment of each of these.

An ability to apply knowledge of mathematics, science, and engineering (CAEE_05_1)	▼ Excellent (1) ... Poor (5)
An ability to design and conduct experiments, as well as to analyze and interpret data (CAEE_05_2)	▼ Excellent (1) ... Poor (5)
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety (CAEE_05_3)	▼ Excellent (1) ... Poor (5)
An ability to function on multidisciplinary teams (CAEE_05_4)	▼ Excellent (1) ... Poor (5)
An ability to identify, formulate, and solve engineering problems (CAEE_05_5)	▼ Excellent (1) ... Poor (5)
An understanding of professional and ethical responsibility (CAEE_05_6)	▼ Excellent (1) ... Poor (5)
An ability to communicate effectively (CAEE_05_7)	▼ Excellent (1) ... Poor (5)
The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context (CAEE_05_8)	▼ Excellent (1) ... Poor (5)
A recognition of the need for, and an ability to engage in life-long learning (CAEE_05_9)	▼ Excellent (1) ... Poor (5)
A knowledge of contemporary issues (CAEE_05_10)	▼ Excellent (1) ... Poor (5)
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice (CAEE_05_11)	▼ Excellent (1) ... Poor (5)

CAEE_06 Please indicate your status with respect to the FE (fundamentals of engineering) exam

- ○ I have taken the exam and am awaiting the results (1)
- ○ I have taken the exam and have passed (4)
- ○ I have taken the exam and have not passed (3)
- ○ I plan to take the exam (4)
- ○ I have no plans at this time to take the exam (5)

CAEE_07 What did you like the most or benefit the most from in your academic experience at Drexel?

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CAEE_08 What did you like the least or benefit the least from in your academic experience at Drexel?

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CAEE_09 What suggestions do you have for improving the curriculum/curricula in which you majored?

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End of Block: CoE - AE, CIVE, & ENVE

Start of Block: CoE - ALL

COE_201 Were you involved in undergraduate research?

- Yes (1)
- No (2)

Display This Question:

If Were you involved in undergraduate research? = Yes

COE_202 How would you rate your undergraduate research experience?

▼ Very Satisfied (5) ... Very Dissatisfied (1)

Display This Question:

If Were you involved in undergraduate research? = Yes

COE_203 Please indicate how strongly you agree or disagree with the following statement: I was able to find research opportunities in my department without difficulty

▼ Strongly Agree (5) ... Strongly Disagree (1)

Display This Question:

If Were you involved in undergraduate research? = Yes

COE_204 How likely are you to recommend undergraduate research to another student?

▼ Definitely would (5) ... Probably would not (1)

Display This Question:

If Were you involved in undergraduate research? = Yes

COE_205 Please tell us which professor you were involved with in undergraduate research if you wish. Please also provide any comments you wish to regarding your undergraduate research experience.

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End of Block: CoE - ALL