Name: LTC Armstrong Date: 27 JUL 18

2018 Faculty Surveys

This is our annual faculty program assessment survey for academic year 2018 (2017-2018). Print the survey, put your name and date on the top of each page, and submit the completed survey to Dr. Biaglow by COB **Monday 3 September 2018**. The survey is **very important** for our program assessment and re-accreditation effort. Please be prompt. Direct any questions about the data or the survey to Dr. Biaglow.

The survey is designed to do three things. First, it documents that you have been made aware of the performance of our cadets on our program's student outcomes. Second, it serves to document your opinions of that performance. Third, it allows us to use your collective knowledge and experience to identify areas where we might be in need of improvement. Your responses to the survey questions should be based on the data in the document entitled "Program Assessment Data - 26 July 2018." The completed surveys are your collective "thumbs up or down" to the various performance indicators we are tracking.

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Name: Armstrong Date:_____

The mission of the chemical engineering program is to prepare commissioned leaders of character who are proficient in applying chemical and engineering principles to solve problems in a complex operational environment.

Chemical Engineering Program Objectives: During a career as commissioned officers in the United States Army and beyond, program graduates:

- Demonstrate effective leadership and chemical engineering expertise.
- Contribute to the solution of infrastructure or operational problems in a complex operational environment.
- Succeed in graduate school or other advanced study programs.
- Advance their careers through clear and precise technical communication.

Chemical Engineering General Program Outcomes (Outcomes 1-11): On completion of the chemical engineering program, our graduates will be able to:

- Apply knowledge of mathematics, science, and engineering.
- Design and conduct experiments, as well as analyze and interpret data.
- Design a system, component, or process to meet desired needs within economic, environmental, social, political, ethical, health and safety, manufacturing, and sustainability constraints.
- Function on multidisciplinary teams.
- Identify, formulate, and solve engineering problems.
- Understand professional and ethical responsibilities.
- Communicate effectively.
- Understand the impact of engineering solutions in a global economic, environmental, and societal context.
- Recognize the need and develop the skills required for life-long learning.
- Demonstrate knowledge of contemporary issues.
- Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.

Chemical Engineering Curriculum Outcomes (Outcome 12): The program provides the graduate with a thorough grounding and working knowledge of the chemical sciences, including:

- General and organic chemistry.
- Material and energy balances on chemical processes, including safety and environmental factors.
- Thermodynamics of physical and chemical equilibria.
- Heat, mass, and momentum transfer.
- Chemical reaction engineering.
- Continuous and staged separation operations.
- Process dynamics and control.
- Modern experimental and computing techniques.
- Process design.

Name: Armstrong

Date: 27 JUL 18

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	☐	☒
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	☐	☒
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	☐	☒
· function on multidisciplinary teams	☐	☐	☐	☐	☒
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	☒
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	☒
· Communicate effectively	☐	☐	☐	☒	☐
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	☐	☒
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	☒
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☐	☒
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☐	☒
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☐	☒

Name: Armstrong Date:_____

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	☒
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☐	☒
The program curriculum supports the program objectives.	☐	☐	☐	☐	☒
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	☒
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	☒
The survey methods used by the program are effective.	☐	☐	☐	☐	☒
The cadets in the program are aware of the program objectives.	☐	☐	☐	☐	☒
The cadets have input into the development of the program objectives.	☐	☐	☐	☐	☒
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☒
The faculty are aware of the program objectives.	☐	☐	☐	☐	☒
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	☒

Name: Armstrong Date: 27 JUL 18

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

Yes we are teaching the right classes. Perhaps to reinvigorate "communication" in each Chem. E. Class through IPRs, briefings, reports, summaries, and posters. Technical writing course ... More Chem E. electives.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

I believe these questions are appropriate.

Please add any additional comments that you would like to make below.

In some of the comments and cadet survey results my opinion has been acknowledgement that cadets lack life experience to provide truly objective and unbiased feedback.

Name: Biaglow Date: 31 Aug 2018

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Name: Bisplow Date: 31 Aug 2018

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- Continuous and staged separation operations.
- Process dynamics and control.
- Modern experimental and computing techniques.
- Process design.

Name: Braylon

Date: 3 May 2018

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	☐	☑
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	☐	☑
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	☐	☑
· function on multidisciplinary teams	☐	☐	☐	☐	☑
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	☑
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	☑
· Communicate effectively	☐	☐	☐	☐	☑
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	☐	☑
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	☑
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☐	☑
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☐	☑
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☐	☑

Name: Brajlan

Date: 21 Aug 2018

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	✓
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☐	✓
The program curriculum supports the program objectives.	☐	☐	☐	☐	✓
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	✓
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	✓
The survey methods used by the program are effective.	☐	☐	☐	☐	✓
The cadets in the program are aware of the program objectives.	☐	☐	☐	☐	✓
The cadets have input into the development of the program objectives.	☐	☐	☐	☐	✓
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	✓
The faculty are aware of the program objectives.	☐	☐	☐	☐	✓
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	✓

Name: Bayles Date: 31 Aug 2018

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

Yes. Probably need second semester of Senior design.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

Yes. Survey is good.

Please add any additional comments that you would like to make below.

Name:_Bull, Geoff_____ Date:_4 SEP 2018____

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- Process design.

Name:__Bull, Geoff_____ Date:_4 SEP 2018__

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	☐	X
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	X	☐
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	X	☐
· function on multidisciplinary teams	☐	☐	☐	X	☐
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	X
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	X
· Communicate effectively	☐	☐	X	☐	☐
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	X	☐
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	X	☐
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	X	☐
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☐	X
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☐	X

Name:_Bull, Geoff_____ Date:_4 SEP 2018___

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	X
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☐	X
The program curriculum supports the program objectives.	☐	☐	☐	☐	X
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	X
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	X
The survey methods used by the program are effective.	☐	☐	☐	☐	X
The cadets in the program are aware of the program objectives.	☐	☐	☐	X	☐
The cadets have input into the development of the program objectives.	☐	☐	☐	☐	X
The cadets are satisfied with the courses in the program.	☐	☐	☐	X	☐
The faculty are aware of the program objectives.	☐	☐	☐	X	☐
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	X

Name:__Bull, Geoff_____ Date:_4 SEP 2018__

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

I think that, with the new ABET criteria, serious consideration should be given to allowing a broader range of electives, though still constrained, somewhat. Specifically, I would like to see more cadets take some advanced chemistry electives, Organic II, preferred, but also Analytical, Polymers, etc. I think our cadets would benefit from improved chemistry skills, although the FEE results generally show acceptable skill levels in this area.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

Not at this time.

Please add any additional comments that you would like to make below.

Beat Navy

Name: CPT(P) Trevor Corrigan Date: 20 AUG 18

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Name: CPT(P) Trevor Corrigan Date: 20 AUG 18

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Name: CPT(P) Trevor Corrigan Date: 20 AUG 18

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
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· function on multidisciplinary teams	☐	☐	☐	☐	☒
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	☒
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	☒
· Communicate effectively	☐	☐	☐	☒	☐
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	☐	☒
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	☒
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☒	☐
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☒	☐
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☒	☐

Name: CPT(P) Trevor Corrigan Date: 20AUG18

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	☒
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The program curriculum supports the program objectives.	☐	☐	☐	☐	☒
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The cadets are satisfied with the courses in the program.	☐	☐	☐	☒	☐
The faculty are aware of the program objectives.	☐	☐	☐	☐	☒
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	☒

Name: CPT (P) Trevor Corrigan Date: 20 AUG 18

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

We are teaching the right courses. The assessment data shows that the cadets are struggling to apply concepts from the topics of Chemistry, Material & Energy balances, and heat transfer on the FEE. This could be due to when those courses are taught CH101 3-4 yrs prior to FEE or could indicate something else.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

The survey is thorough. Both detailed and wide in scope.

Please add any additional comments that you would like to make below.

Name: LTC Corey James Date: 5SEP2018

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Name: LTC Corey James Date: 5 SEP 2018

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- Design a system, component, or process to meet desired needs within economic, environmental, social, political, ethical, health and safety, manufacturing, and sustainability constraints.
- Function on multidisciplinary teams.
- Identify, formulate, and solve engineering problems.
- Understand professional and ethical responsibilities.
- Communicate effectively.
- Understand the impact of engineering solutions in a global economic, environmental, and societal context.
- Recognize the need and develop the skills required for life-long learning.
- Demonstrate knowledge of contemporary issues.
- Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.

Chemical Engineering Curriculum Outcomes (Outcome 12): The program provides the graduate with a thorough grounding and working knowledge of the chemical sciences, including:

- General and organic chemistry.
- Material and energy balances on chemical processes, including safety and environmental factors.
- Thermodynamics of physical and chemical equilibria.
- Heat, mass, and momentum transfer.
- Chemical reaction engineering.
- Continuous and staged separation operations.
- Process dynamics and control.
- Modern experimental and computing techniques.
- Process design.

Name: LTC Corey James Date: 5SEP2018

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	■	☐
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	☐	■
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	☐	■
· function on multidisciplinary teams	☐	☐	☐	☐	■
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	■
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	■
· Communicate effectively	☐	☐	☐	■	☐
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	■	☐
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	■
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☐	■
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☐	■
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☐	■

Name: LTC Corey James Date: 5SEP2018

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	●
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☐	●
The program curriculum supports the program objectives.	☐	☐	☐	☐	●
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	●
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	●
The survey methods used by the program are effective.	☐	☐	☐	☐	●
The cadets in the program are aware of the program objectives.	☐	☐	☐	●	☐
The cadets have input into the development of the program objectives.	☐	☐	☐	☐	●
The cadets are satisfied with the courses in the program.	☐	☐	☐	●	☐
The faculty are aware of the program objectives.	☐	☐	☐	☐	●
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	●

Name: LTC Corey James Date: 5 SEP 2018

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

delete - MC 311 and MC 312
add - transport phenomena taught in CLS
add - second semester of design

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

Do we have the correct balance between research and teaching and is that in line with USMA/Supe/Dean mission and priorities?

Please add any additional comments that you would like to make below.

Name: Enoch Nagelli Date: 9/4/2018

2018 Faculty Surveys

This is our annual faculty program assessment survey for academic year 2018 (2017-2018). Print the survey, put your name and date on the top of each page, and submit the completed survey to Dr. Biaglow by COB **Monday 3 September 2018**. The survey is **very important** for our program assessment and re-accreditation effort. Please be prompt. Direct any questions about the data or the survey to Dr. Biaglow.

The survey is designed to do three things. First, it documents that you have been made aware of the performance of our cadets on our program's student outcomes. Second, it serves to document your opinions of that performance. Third, it allows us to use your collective knowledge and experience to identify areas where we might be in need of improvement. Your responses to the survey questions should be based on the data in the document entitled "Program Assessment Data - 26 July 2018." The completed surveys are your collective "thumbs up or down" to the various performance indicators we are tracking.

Instructions

- Please review the data in the document "Program Assessment Data - 26 July 2018." The data pertain to the level of achievement of our 2018 program graduates. Answer the survey questions in "Part I" of this document based on your opinions of the data.
- The survey also asks questions pertaining to the program objectives. These questions are found in "Part II." For this part of the survey, we are interested in your opinion of the relevance of the objectives and their consistency with the Academy mission and needs of the Army.
- Finally, there are some open questions in Part III where you can comment on the quality of the curriculum, the process itself or any other items you would like us to address.
- The surveys are required for all chemical engineering faculty members and are due by **Monday 3 September 2018**.
- Guidance for completing the survey will be discussed at an upcoming faculty meeting.
- Your responses will be consolidated, discussed at our program assessment meeting, and archived in our annual report.

Name:_____ Date:_____

The mission of the chemical engineering program is to prepare commissioned leaders of character who are proficient in applying chemical and engineering principles to solve problems in a complex operational environment.

Chemical Engineering Program Objectives: During a career as commissioned officers in the United States Army and beyond, program graduates:

- Demonstrate effective leadership and chemical engineering expertise.
- Contribute to the solution of infrastructure or operational problems in a complex operational environment.
- Succeed in graduate school or other advanced study programs.
- Advance their careers through clear and precise technical communication.

Chemical Engineering General Program Outcomes (Outcomes 1-11): On completion of the chemical engineering program, our graduates will be able to:

- Apply knowledge of mathematics, science, and engineering.
- Design and conduct experiments, as well as analyze and interpret data.
- Design a system, component, or process to meet desired needs within economic, environmental, social, political, ethical, health and safety, manufacturing, and sustainability constraints.
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- Understand professional and ethical responsibilities.
- Communicate effectively.
- Understand the impact of engineering solutions in a global economic, environmental, and societal context.
- Recognize the need and develop the skills required for life-long learning.
- Demonstrate knowledge of contemporary issues.
- Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.

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- Thermodynamics of physical and chemical equilibria.
- Heat, mass, and momentum transfer.
- Chemical reaction engineering.
- Continuous and staged separation operations.
- Process dynamics and control.
- Modern experimental and computing techniques.
- Process design.

Name:_____ Date:_____

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	☐	☒
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	☐	☒
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	☐	☒
· function on multidisciplinary teams	☐	☐	☒	☐	☐
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	☒
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	☒
· Communicate effectively	☐	☐	☐	☐	☒
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	☒	☐
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	☒
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☐	☒
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☐	☒
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☐	☒

Name:_____ Date:_____

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	X
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☐	X
The program curriculum supports the program objectives.	☐	☐	☐	☐	X
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	X
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	X
The survey methods used by the program are effective.	☐	☐	☐	☐	X
The cadets in the program are aware of the program objectives.	☐	☐	☐	X	☐
The cadets have input into the development of the program objectives.	☐	☐	X	☐	☐
The cadets are satisfied with the courses in the program.	☐	☐	☐	X	☐
The faculty are aware of the program objectives.	☐	☐	☐	☐	X
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	X

Name:_____ Date:_____

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

(1) It would be beneficial for our program and cadets to teach a chemical Eng. Transport course teaching Heat, mass and momentum transport within a chemical engineering context of processes.

(2) It would also be beneficial to have electives offered in the various disciplines of chemical engineering: Electrochemical engineering, biomaterials & bioengineering, applied nanomaterials & nanotechnology.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

—

Please add any additional comments that you would like to make below.

N/A

Name: April Miller Date: 4 Sep

2018 Faculty Surveys

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- Finally, there are some open questions in Part III where you can comment on the quality of the curriculum, the process itself or any other items you would like us to address.
- The surveys are required for all chemical engineering faculty members and are due by **Monday 3 September 2018**.
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- Your responses will be consolidated, discussed at our program assessment meeting, and archived in our annual report.

Name:_____ Date:_____

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- Communicate effectively.
- Understand the impact of engineering solutions in a global economic, environmental, and societal context.
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- Thermodynamics of physical and chemical equilibria.
- Heat, mass, and momentum transfer.
- Chemical reaction engineering.
- Continuous and staged separation operations.
- Process dynamics and control.
- Modern experimental and computing techniques.
- Process design.

Name:_____ Date:_____

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	☐	☒
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	☒	☐
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	☒	☐
· function on multidisciplinary teams	☐	☐	☒ ADM	☒	☐
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	☒
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	☒
7 · Communicate effectively	☐	☐	☐	☒	☐
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	☐	☒
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	☒
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☒	☐
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☒	☐
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☒	☐

Name:_____ Date:_____

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	☒
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☒	☐
The program curriculum supports the program objectives.	☐	☐	☐	☐	☒
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	☒
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	☒
The survey methods used by the program are effective.	☐	☐	☐	☒	☐
The cadets in the program are aware of the program objectives.	☐	☐	☐	☐	☒
The cadets have input into the development of the program objectives.	☐	☐	☐	☒	☐
The cadets are satisfied with the courses in the program.	☐	☐	☐	☒	☐
The faculty are aware of the program objectives.	☐	☐	☐	☐	☒
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☒	☐

Name:_____ Date:_____

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

If our cadets are commissioning into the Army are we teaching the right curriculum (traditional chemical engineering? I personally believe we should incarporate more "non traditional" chemical eng curriculum as this will support the multidisciplined as well as the development of a leader that is capable of thinking outside the box.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

Do we have a question on the Cadet survey that allows the cadet to recommend changes? If so, show those results.

Please add any additional comments that you would like to make below.

Name: Andrew Pflyer LTC Date: 8/29/18

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- Thermodynamics of physical and chemical equilibria.
- Heat, mass, and momentum transfer.
- Chemical reaction engineering.
- Continuous and staged separation operations.
- Process dynamics and control.
- Modern experimental and computing techniques.
- Process design.

Name: Pfluger Date: 8/29/18

Part I. Student Outcomes. Review the data and then check the box in the column that most closely represents your opinion.

The cadets in the program are able to:	Strongly Disagree		Neutral		Strongly Agree
· Apply knowledge of math, science, and engineering	☐	☐	☐	☐	☒
· Design and conduct experiments as well as analyze and interpret data.	☐	☐	☐	☐	☒
· Design a system, component, or process to meet desired needs within specified constraints.	☐	☐	☐	☐	☒
· function on multidisciplinary teams	☐	☐	☐	☒	☐
· Identify, formulate, and solve engineering problems.	☐	☐	☐	☐	☒
· Understand their professional and ethical responsibilities.	☐	☐	☐	☐	☒
· Communicate effectively	☐	☐	☐	☒	☐
· Understand the impact of engineering solutions in a global economic, environmental, and societal context	☐	☐	☐	☐	☒
· Recognize the need for life-long learning, and appear to be developing the skills they will need to pursue this.	☐	☐	☐	☐	☒
· Demonstrate knowledge of contemporary issues.	☐	☐	☐	☐	☒
· Demonstrate an ability to use techniques, skills, and modern engineering tools necessary for engineering practice.	☐	☐	☐	☐	☒
· Have attained a thorough grounding in and working knowledge of the chemical engineering curriculum.	☐	☐	☐	☐	☒

Name: Pfluger Date: 8/29/18

Part II. Program Objectives. Check the box that most closely represents your opinion.

	Strongly Disagree		Neutral		Strongly Agree
The program objectives are consistent with the USMA mission.	☐	☐	☐	☐	☒
The program objectives are consistent with the needs of the Army.	☐	☐	☐	☐	☒
The program curriculum supports the program objectives.	☐	☐	☐	☐	☒
The student outcomes are consistent with the program mission and objectives.	☐	☐	☐	☐	☒
The program has a process for periodically assessing the achievement of its student outcomes.	☐	☐	☐	☐	☒
The survey methods used by the program are effective.	☐	☐	☐	☐	☒
The cadets in the program are aware of the program objectives.	☐	☐	☐	☐	☒
The cadets have input into the development of the program objectives.	☐	☐	☐	☐	☒
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☒
The faculty are aware of the program objectives.	☐	☐	☐	☐	☒
The faculty (past and present) have contributed to the development of the program objectives.	☐	☐	☐	☐	☒

Name: Pfluger Date: 8/29/18

Part III. Open questions.

Are we teaching the right classes? Based on the assessment data or on your personal opinion, is there a course that the program should add to the curriculum?

I think our ChemE core is spot on. I think science communication is always an area we can address; however, may not warrant a full course. I think exposure to bioengineering courses would be helpful, but in terms of elective courses.

Are we asking the right questions? Do you have any suggestions to improve the faculty survey for next year?

Honestly, no. I think these questions allow for open & honest feedback & continued improvement.

Please add any additional comments that you would like to make below.

I am glad to be part of an outstanding program that emphasizes excellence, supports the Academy's mission, and develops future leaders in the ChemE community.