Program Assessment Briefing - Term 2026-2

Summary Report

SURVEY QUESTIONS – PART I (PAGE 3)

The cadets who graduated last year have demonstrated that they

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

3. Communicate effectively with a range of audiences.

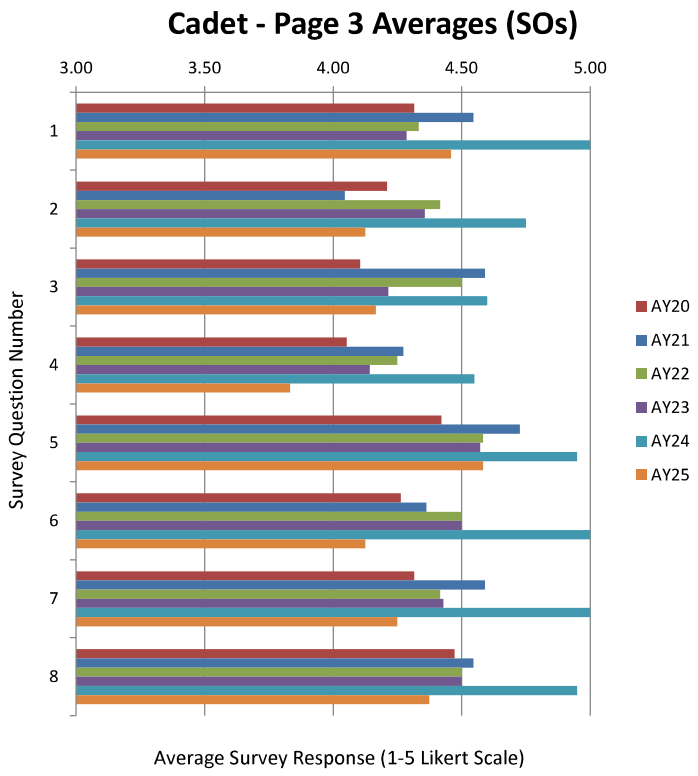
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6. Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.

7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

8. Understand the chemical engineering curriculum.



SURVEY QUESTIONS – PART II (PAGE 4)

1. The program objectives are consistent with the USMA mission.

2. The program objectives are consistent with the needs of the Army.

3. The program curriculum supports the program objectives.

4. The student outcomes are consistent with the program mission and objectives.

5. The program has a process for periodically assessing the achievement of its student outcomes.

6. The survey methods used by the program are effective.

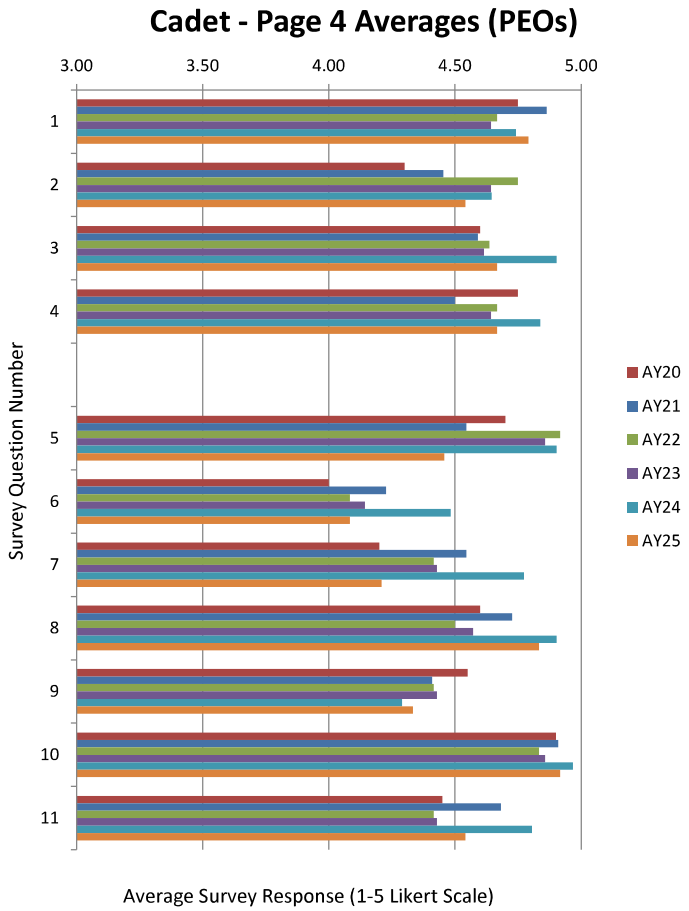
7. The cadets in the program are aware of the program objectives.

8. The cadets are given an opportunity to provide their opinion about the program objectives.

9. The cadets are satisfied with the courses in the program.

10. In my opinion, the faculty are aware of the program objectives.

11. In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.



COMMENTS FROM STUDENT SURVEYS, AY26-1

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?

A materials science elective would be beneficial though I don't know where it would fit in the schedule. (Baisted)

Yes, I think the way we start with M+EB teaches you how to solve engineering problems. Then the other classes teach you the fundamental unit ops and then it culminates by putting it together in CH459/402. (Ellsworth)

A materials section attached to a pre-existing course or on its own would be helpful. (Ferrying)

Yes, overall I think we are teaching the right courses. I think a materials class should be added to the curriculum, but generally I think we are in the right spot. (Gilland)

Yes these seem like the right classes. Maybe a materials related class should be added to address that area of the FEE. (Howell)

Materials in ME or a ChemE centered version. (Rodriguez)

I would add more FEE focused classes but that is difficult considering how many classes we're required to take. (Singh)

Materials could be a useful addition. (Badger)

Yes, but I would add materials science. (Cox)

Yes, I feel there could be better technological usage in them. The Chem E courses are good … but maybe in the requisite courses we could use more technological elements (MMA) that we use in Chem E. (Davis)

Yes, we are teaching the right classes. We should teach material properties class. (Ebiuwhe)

Is there a way to create a combined EE301 + Controls? I would also remove 45% or emphasize more individual work in it, and incorporate more of an industry-focused course. (Faherty)

If there's a way to show our academic requirements vs. what other Chem-E programs do, that would be beneficial (ex. Our problem sets vs. Purdue's, etc. (Faherty)

Could add materials science as elective. (Holmstrom)

Material properties. Combine Thermo classes. (Janat)

A class that emphasizes presentations & research publications that gives cadets more of a chance to improve their speaking (publicly) & writing skills to learn how to improve upon their communication skills regarding complex chemical engineering processes. (Jensen)

There are classes that should be taken early, because they don't really apply. (Kennedy)

You should ask for more specific feedback regarding specific courses w/ room for written answers (not just number rating. (Kennedy)

The courses are a good variety of different topics although it feels that many courses just touch on certain topics without going over them again. (Leja)

Definitely don't add anything! I think the biggest issue is having so many classes/lessons that students don't have enough time to deeply understand the material. Instead, we should look at refining lessons/removing "fluff." (Lewis)

Yes, West Point Chem Es tend to do very well on the FEE exam. (Littlehales)

Yes. The actual major-related courses are aimed at teaching the objectives and the subject matter of the FEE. (Macune)

A materials course. (Smith)

Yes we are teaching the right classes. Foundational Chem E classes do great in providing foundation for follow-on classes and higher level classes are well nested/connected w/ one another. (Stokes)

Yes, the department is teaching the right classes. I don't think any classes should be added to the curriculum. (Thomas)

Yes. Maybe add a materials class. (Tringali)

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

I don't really understand how I'm supposed the class of 2025 as I've never known them (*sic*). (Baisted)

Yes. (Ellsworth)

The survey is fine as is. (Ferrying)

Yes, I can't think of any questions that would be better. (Gilland)

If there is a post FEE survey for cadets that might be helpful to find improvements. (Howell)

Maybe add questions specific to certain classes. (Singh)

Yes. (Badger)

Yes you are. (Cox)

Questions → Yes. But, maybe there could be a better way to assess the year prior. (Davis)

Yes. (Ebiuwhe)

I'd love to see a greater emphasis on industry/application over the theoretical focus we currently have. (Faherty)

Yes, maybe look into downward numbers to assess. (Holmstrom)

Ask questions about feelings of preparation. (Janat)

Making the survey anonymous to avoid confirmation bias. (Jensen)

I believe so. I feel cadets have an opportunity to voice their opinions/concerns if needed. (Leja)

It's hard to judge the previous class when you don't know them very well, so I think it would be more effective if we do Part I at the end of the year and base our responses off of our own class. (Lewis)

IDK TBH. (Littlehales)

I think some of the questions are worded odd. It was kind of hard to interpret the data enough to give a meaningful judgement on last year's class. (Macune)

Yes. The right questions are being asked. (Smith)

Yes, questions are holistic in assessing academic performance while relating to institutional mission and vision. (Stokes)

I think there should be a question on whether there should be a class taken away from the curriculum since there is a question about adding a class. Otherwise, the questions are good and thorough. (Thomas)

Definitely asking the right questions! More ethical stuff maybe. (Tringali)

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

The faculty know the material well and care about cadets. Keep hiring good faculty like we have now to keep the program good. (Ellsworth)

I think overall the curriculum is in a good place but I do believe that CH362 and CH363 should do a better job of "weeding" students out. I also think classes should be taken in a different order. CH485 and CH363 should be flipped in my opinion. (Gilland)

This major is a rewarding challenge. I feel very prepared to leverage my knowledge and problem solving in the army. (Badger)

I feel I am very prepared for my career as a nuclear officer in the Navy's submarine force & power school. (Cox)

Look at switching MC300 for material science. (Holmstrom)

Great program for problem-solving in a consistently changing adaptive world. (Jensen)

Some courses are very instructor dependent. (Leja)

Everything is great. CH459 helped a lot with putting it all together. (Tringali)

Program Assessment Briefing - Term 2026-2

Cadet Surveys

Name: Ben Baisted Date: 1-7-26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Ben Baisted

Name: Ben Baistad Date: 1-7-26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Ben Baistad Date: 1-7-26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☒	☐
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☐	☐	☒
• Communicate effectively with a range of audiences.	☐	☐	☐	☒	☐
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☐	☒	☐
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☒	☐	☐
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☒	☐
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☐	☒	☐
• Understand the chemical engineering curriculum.	☐	☐	☒	☐	☐

Name: Ben Baisted Date: 1-7-26

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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☒	☐
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☒
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☒
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☒

Name: Ben Baisted Date: 1-7-26

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?

a material science elective would be beneficial though I don't know where it would fit in the schedule

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

I don't really understand how I'm supposed the class of 2025 as I've never known them

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

N/A

Name: Matthew Ellsworth Date: 07 JAN 26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:
Matthew Ellsworth

Name: Matthew Ellsworth Date: 07 JAN 26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Matthew Ellsworth Date: 07JAN26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☐	☒
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☐	☐	☒
• Communicate effectively with a range of audiences.	☐	☐	☐	☒	☐
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☐	☐	☒
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☐	☐	☒
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☐	☒
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☐	☐	☒
• Understand the chemical engineering curriculum.	☐	☐	☐	☒	☐

Name: Matthew Ellsworth Date: 07 JAN 26

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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☒
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☒
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☒
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☒

Name: Matthew Ellsworth Date: 07JAN26

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, I think the way we start w/ M.E.B teaches you how to solve engineering problems. Then the other classes teach you the fundamental unit ops and then it culminates by putting it together in 459/402.

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

Yes

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

The faculty know the material well and care abt Cadets. Keep hiring good faculty like we have now to keep the program good.

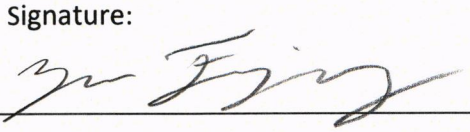
Name: Zane Ferrying Date: 1/7/26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name: Tane Ferrying Date: 1/7/26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Zane Ferrying Date: 1/7/26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☑	☐
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☑	☐	☐
• Communicate effectively with a range of audiences.	☐	☐	☐	☑	☐
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☐	☑	☐
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☐	☐	☑
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☑	☐
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☐	☑	☐
• Understand the chemical engineering curriculum.	☐	☐	☐	☐	☑

Name: Zane Ferrying Date: 1/7/26

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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☑
The cadets are satisfied with the courses in the program.	☐	☐	☐	☑	☐
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☑
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☑

Name: Zane Farrying Date: 1/7/26

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?

A materials section attached to a preexisting course or on its own would be helpful.

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

The survey is fine as is.

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

N/A

Name: Broc Gilland Date: 1/7/25

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:

Name: Brad Gilland Date: 1/7/2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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:_____ Date:_____

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☐	☒
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☐	☒	☐
• Communicate effectively with a range of audiences.	☐	☐	☐	☐	☒
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☐	☒	☐
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☐	☐	☒
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☐	☒
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☐	☐	☒
• Understand 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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☒	☐
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☒
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☒
In my opinion, the faculty are given an opportunity to provide their opinion about 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?

Yes, overall I think we are teaching the right classes. I think a _materials class should be added to the curriculum, but generally I think we are in the right spot.

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

Yes, I can't think of any questions that would be better.

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

I think overall the curriculum is in a good place but I do believe that CH362 & CH363 should do a better job of "weeding" students out. I also think classes should be taken in a different order. CH485 & CH363 should be flipped in my opinion

Name: Ian Howell Date: 7 Jan 2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Ian Howell

Name: Ian Howell Date: 7 Jan 2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Ian Howell Date: 7 Jan 2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☐	☒
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☐	☒	☐
• Communicate effectively with a range of audiences.	☐	☐	☐	☐	☒
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☐	☒	☐
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☐	☐	☒
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☐	☒
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☐	☐	☒
• Understand the chemical engineering curriculum.	☐	☐	☐	☐	☒

Name: Ian Howell Date: 7 Jan 2026

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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☒
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☒
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☒
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☒	☐

Name: Ian Howell Date: 7 Jan 2026

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 these seem like the right classes. Maybe a materials related class should be added to address that area of FEE

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

If there is a post FEE survey for cadets that might be helpful to find improvements

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

N/A

Name: Eric Rodriguez '26 Date: 1/7/26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Eric Rodriguez

Name: Eric Rodrigue '22 Date: 1/7/26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Eric Rodriguez '26 Date: 1/7/26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☒	☐
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☐	☒	☐
• Communicate effectively with a range of audiences.	☐	☐	☐	☐	☒
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☒	☐	☐
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☐	☒	☐
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☐	☒
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☐	☒	☐
• Understand the chemical engineering curriculum.	☐	☐	☐	☐	☒

Name: Eric Rodgers Date: 1/7/26

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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☒
The cadets are satisfied with the courses in the program.	☐	☐	☐	☒	☐
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☒
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☒

Name: Eric Rodriguez '25 Date: 1/7/26

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?
Materials in ME or a ChemE centered version

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

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

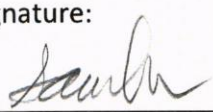
Name: Samarth Singh Date: 1/7/26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name: Somath Singh Date: 1/7/26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Samrath Singh Date: 1/7/26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	☐	☐	☐	☑	☐
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.	☐	☐	☐	☑	☐
• Communicate effectively with a range of audiences.	☐	☐	☑	☐	☐
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	☐	☐	☑	☐	☐
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.	☐	☐	☑	☐	☐
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.	☐	☐	☐	☑	☐
• Acquire and apply new knowledge as needed, using appropriate learning strategies.	☐	☐	☑	☐	☐
• Understand the chemical engineering curriculum.	☐	☐	☐	☑	☐

Name: Samath Singh Date: 1/7/26

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 are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☑
The cadets are satisfied with the courses in the program.	☐	☐	☐	☐	☑
In my opinion, the faculty are aware of the program objectives.	☐	☐	☐	☐	☑
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.	☐	☐	☐	☐	☑

Name: Samath Singh Date: 1/7/26

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 would add more FEE focused classes but that is difficult considering how many classes we're required to take.

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

Maybe add questions specific to certain classes

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

N/A

Name: James Badger Date: 07JAN2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name: James Badgar Date: 07 JAN 2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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:_____ Date:_____

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.					5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.				4	
• Communicate effectively with a range of audiences.				4	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.				4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.					5
• Acquire and apply new knowledge as needed, using appropriate learning strategies.					5
• Understand the chemical engineering curriculum.					5

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.					5
The program objectives are consistent with the needs of the Army.					5
The program curriculum supports the program objectives.					5
The student outcomes are consistent with the program mission and objectives.					5
The program has a process for periodically assessing the achievement of its student outcomes.				4	
The survey methods used by the program are effective.				4	
The cadets in the program are aware of the program objectives.					5
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.					5
In my opinion, the faculty are aware of the program objectives.				4	
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.				4	

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?

Materials could be a useful addition

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

Yes

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

This major is a rewarding challenge.
I feel very prepared to leverage my knowledge and problem-solving in the army.

Name: Benjamin Cox Date: 7 Jan 2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Benjamin Cox

Name: Benjamin Cox Date: 7 Jan 2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Benjamin Cox Date: 7 Jan 2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			3		5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.				4	
• Communicate effectively with a range of audiences.			3		
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.				4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.			3		
• Acquire and apply new knowledge as needed, using appropriate learning strategies.				4	
• Understand the chemical engineering curriculum.					5

Name: Benjamin Cox Date: 7 Jan 2026

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.					5
The program objectives are consistent with the needs of the Army.				4	
The program curriculum supports the program objectives.				4	
The student outcomes are consistent with the program mission and objectives.					5
The program has a process for periodically assessing the achievement of its student outcomes.			3		
The survey methods used by the program are effective.				4	
The cadets in the program are aware of the program objectives.				4	
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.			3		
In my opinion, the faculty are aware of the program objectives.					5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			3		

Name: Benjamin Cox Date: 7 Jan 2026

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, but I would add materials science

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

Yes, you are

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

I feel I am very prepared for my career as a nuclear officer in the Navy's submarine force & power school.

Name: Nate Davis Date: 7 JAN 2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name:_____ Date:_____

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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:_____ Date:_____

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree	Neutral	Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.		4	
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		4	
• Communicate effectively with a range of audiences.			5
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.		3	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.		3	
• Understand the chemical engineering curriculum.			5

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.			5
The program objectives are consistent with the needs of the Army.		4	
The program curriculum supports the program objectives.			5
The student outcomes are consistent with the program mission and objectives.			5
The program has a process for periodically assessing the achievement of its student outcomes.		3	
The survey methods used by the program are effective.		4	
The cadets in the program are aware of the program objectives.			5
The cadets are given an opportunity to provide their opinion about the program objectives.			5
The cadets are satisfied with the courses in the program.		4	
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

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?

Yes, I feel there could be better technological usage in them. The ChemE courses are good.... but maybe in the requisite courses we could use more technological elements that we use in ChemE. (MMA)

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

Questions → Yes.
But, Maybe there could be a better way to assess the year prior

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

None.

Name: Emmanuella Ebiuwhe Date: 01/07/2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Emmanuella Ebiuwhe

Name: Emmanuella Ebiuwhe Date: 01/07/2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Emmanuella Ebiuwhe Date: 01/07/2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree	Neutral	Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.		3	
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.			5
• Communicate effectively with a range of audiences.		3	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.			5
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.		4	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.			5
• Understand the chemical engineering curriculum.		3	

Name: Emmanuella Ebiuwhe Date: 01/07/2026

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.			5
The program objectives are consistent with the needs of the Army.			5
The program curriculum supports the program objectives.			5
The student outcomes are consistent with the program mission and objectives.			5
			5
The program has a process for periodically assessing the achievement of its student outcomes.			5
The survey methods used by the program are effective.		4	
The cadets in the program are aware of the program objectives.			5
The cadets are given an opportunity to provide their opinion about the program objectives.		4	
The cadets are satisfied with the courses in the program.			5
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: Emmanuella Eboiuwhe Date: 01/07/2026

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. We should teach material Properties class

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

Yes

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

Name: Patrick Fahey Date: 07 Jan 26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: PC

Name: Patrick Faherty Date: 07 Jan 26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Patrick Faherty Date: 07 Jan 26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	1 Strongly Disagree	3 Neutral	5 Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.		4	
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		4	
• Communicate effectively with a range of audiences.			5
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.		3	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.		4	
• Understand the chemical engineering curriculum.		4	

Name: Patrick Faherty Date: 07 Jan 26

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

	1 Strongly Disagree	3 Neutral	5 Strongly Agree
The program objectives are consistent with the USMA mission.		4	
The program objectives are consistent with the needs of the Army.		4	
The program curriculum supports the program objectives.		4	
The student outcomes are consistent with the program mission and objectives.		4	
The program has a process for periodically assessing the achievement of its student outcomes.			5
The survey methods used by the program are effective.			5
The cadets in the program are aware of the program objectives.		4	
The cadets are given an opportunity to provide their opinion about the program objectives.			5
The cadets are satisfied with the courses in the program.		4	
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: Patrick Taleffey Date: 07 Jan 26

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?

Is there a way to create a combined EE 301 + Controls? I would also remove 459, or emphasize more individual work/init, and incorporate more of an industry-focused course.

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

If there's a way to show our academic requirements vs. what other Chem-E programs do, that would be beneficial (ex. our Problem sets vs. Purdue's, etc.)

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

I'd love to see a greater empasis on industry/application over the theoretical focus we currently have.

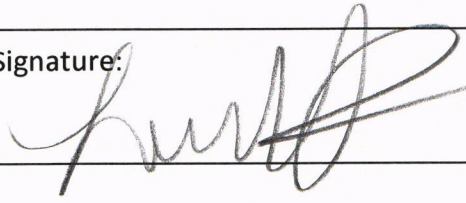
Name: Laura Holmstrom Date: 1/7/2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name: Laura Holmstrom Date: 1/7/2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Laura Holmstrom Date: 1/7/2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	1 Strongly Disagree	3 Neutral	5 Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		3.5	
• Communicate effectively with a range of audiences.			5
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.		4	
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.		4	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.		4	
• Understand the chemical engineering curriculum.		4	

Name: Laura Holmstrom Date: 1/7/2026

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

	1 Strongly Disagree	3 Neutral	5 Strongly Agree
The program objectives are consistent with the USMA mission.		4	
The program objectives are consistent with the needs of the Army.		3.5	
The program curriculum supports the program objectives.		4	
The student outcomes are consistent with the program mission and objectives.		4	
The program has a process for periodically assessing the achievement of its student outcomes.		3.5	
The survey methods used by the program are effective.		4.5	
The cadets in the program are aware of the program objectives.		4.5	
The cadets are given an opportunity to provide their opinion about the program objectives.			5
The cadets are satisfied with the courses in the program.		3.5	
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: Laura Holmstrom Date: 1/7/2026

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?
Could add material science as elective.

Are we asking the right questions? Do you have any suggestions to improve the survey for next year? Yes, maybe look into the downward numbers to assess

Please add any additional comments that you would like to make below.
look at switching MC300 for material science.

Name: Tsegaye Janat Date: 01/07/2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:

Name: Tsegaye Janet Date: 01/07/2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Tsegaye Janut Date: 01/07/2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree	Neutral	Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.			4
• Communicate effectively with a range of audiences.		3	4
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		3	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.		4	
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.			5
• Acquire and apply new knowledge as needed, using appropriate learning strategies.		4	
• Understand the chemical engineering curriculum.			5

Name: Tsegaye Janat Date: 01/07/2026

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.		4	
The program objectives are consistent with the needs of the Army.		4	
The program curriculum supports the program objectives.			5
The student outcomes are consistent with the program mission and objectives.		4	
The program has a process for periodically assessing the achievement of its student outcomes.		4	
The survey methods used by the program are effective.		3	
The cadets in the program are aware of the program objectives.		4	
The cadets are given an opportunity to provide their opinion about the program objectives.		4	
The cadets are satisfied with the courses in the program.		4	
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: Tsegaye Jamat Date: 01/07/2026

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?

Material properties

Combine Thermo classes

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

Ask questions about feelings of preparation

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

NSTR

Name: Megan Jensen Date: 01/07/26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:
Megan Jensen

Name: Megan Jensen Date: 01/07/26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Megan Jensen Date: 01/07/26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.					✓
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.					✓
• Communicate effectively with a range of audiences.				✓	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.			✓		
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				✓	
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.				✓	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.				✓	
• Understand the chemical engineering curriculum.					✓

Name: Megan Jensen Date: 01/07/26

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 are given an opportunity to provide their opinion about the program objectives.					✓
The cadets are satisfied with the courses in the program.				✓	
In my opinion, the faculty are aware of the program objectives.					✓
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			✓		

Name: Megan Jensen

Date: 01/07/26

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?

A class that emphasizes presentations & research publications that gives cadets more of a chance to improve their speaking (publicly) & writing skills to learn how to / improve upon their communication skills regarding complex chemical engineering processes.

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

making the survey anonymous to avoid confirmation bias

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

Great program for problem-solving in a consistently changing adaptive world!

Name: Caroline Kennedy Date: 07JAN26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Caroline Kennedy

Name: Caroline Kennedy Date: 07 JAN 26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Caroline Kennedy Date: 07JAN26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.					✓ 5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.				4	
• Communicate effectively with a range of audiences.					5
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.				4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				4	
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.			3		
• Acquire and apply new knowledge as needed, using appropriate learning strategies.			3		
• Understand the chemical engineering curriculum.				4	

Name: Caroline Kennedy Date: 07JAN26

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.					5
The program objectives are consistent with the needs of the Army.				4	
The program curriculum supports the program objectives.				4	
The student outcomes are consistent with the program mission and objectives.				4	
The program has a process for periodically assessing the achievement of its student outcomes.					5
The survey methods used by the program are effective.			3		
The cadets in the program are aware of the program objectives.				4	
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.				4	
In my opinion, the faculty are aware of the program objectives.					5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.				4	

Name: Caroline Kennedy Date: 07JAN26

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?

There are classes that should be taken away, because they don't really apply.

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

You should ask for more specific feedback regarding specific classes w/ room for written answers (not just number rates)

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

Name: Gabriel Leja Date: 07 JAN 26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name:_____ Date:_____

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Gabriel Leja Date: 07JAN26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.				4	
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.			3		
• Communicate effectively with a range of audiences.					5
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.			3		
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.				4	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.				4	
• Understand the chemical engineering curriculum.			3		

Name: Gabriel Leja Date: 07 JAN 26

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.					5
The program objectives are consistent with the needs of the Army.				4	
The program curriculum supports the program objectives.				4	
The student outcomes are consistent with the program mission and objectives.				4	
The program has a process for periodically assessing the achievement of its student outcomes.				4	
The survey methods used by the program are effective.				4	
The cadets in the program are aware of the program objectives.			3		
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.				4	
In my opinion, the faculty are aware of the program objectives.					5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			3		

Name: Leja Date: 07JAN

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?

The courses are a good variety of different topics although it feels that many course just touch on certain topics without going over them again

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

I believe so. I feel cadets have to opportunity to voice their opinions / concerns if needed.

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

Some courses are very instructor dependent.

Name: CLAIRE LEWIS Date: 07JAN26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Claire Lewis

Name: CLAIRE LEWIS Date: 07JAN26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: CLAIRE LEWIS Date: 07JAN26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree (1)	(2)	Neutral (3)	(4)	Strongly Agree (5)
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.				4	
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.				4	
• Communicate effectively with a range of audiences.				4	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.				4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.				4	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.				4	
• Understand the chemical engineering curriculum.				4	

Name: CLAIRE LEWIS Date: 07JAN26

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.					5
The program objectives are consistent with the needs of the Army.					5
The program curriculum supports the program objectives.					5
The student outcomes are consistent with the program mission and objectives.					5
The program has a process for periodically assessing the achievement of its student outcomes.					5
The survey methods used by the program are effective.					5
The cadets in the program are aware of the program objectives.					5
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.				4	
In my opinion, the faculty are aware of the program objectives.					5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.					5

Name: CLAIRE LEWIS Date: 07JAN

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?

Definitely don't add anything. I think the biggest issue is having so many classes that students don't have enough time to deeply understand the material. Instead we should look at refining lessons / removing "fluff."

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

It's hard to judge the previous class when you don't know them very well, so I think it would be more effective if we do Part I at the end of the year & base our responses off of our own class.

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

Name: Andrew Littlehales Date: 1/7/26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:
Andrew LH

Name: Andrew Littlehales Date: 1/7/26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Andrew Littlehales Date: 1/7/26

1-5

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree	Neutral	Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.		4	
• Communicate effectively with a range of audiences.		3	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		4	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.		4	
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.		4	
• Acquire and apply new knowledge as needed, using appropriate learning strategies.			5
• Understand the chemical engineering curriculum.			5

Name: Andrew Littlejohn Date: 1/7/26

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.				4	
The program objectives are consistent with the needs of the Army.			3		
The program curriculum supports the program objectives.					5
The student outcomes are consistent with the program mission and objectives.					5
The program has a process for periodically assessing the achievement of its student outcomes.			3		
The survey methods used by the program are effective.		2			
The cadets in the program are aware of the program objectives.			3		
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.				4	
In my opinion, the faculty are aware of the program objectives.				4	
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.					5

Name: Andrew Littlehales Date: 1/7/26

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, West Point class Es tend to do well on the FEE exam

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

IDK TBH

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

Name: Grace Macune Date: 1/7/26

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: 

Name: Grace Macune Date: 1/7/26

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Grace Macure Date: 1/7/26

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree	Neutral	Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			4
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.			2
• Communicate effectively with a range of audiences.			5
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.			3
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.			3
• Acquire and apply new knowledge as needed, using appropriate learning strategies.			4
• Understand the chemical engineering curriculum.			3

Name: Grace Macune Date: 1/7/26

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.			5
The program objectives are consistent with the needs of the Army.			5
The program curriculum supports the program objectives.			4
The student outcomes are consistent with the program mission and objectives.			5
The program has a process for periodically assessing the achievement of its student outcomes.			5
The survey methods used by the program are effective.			2
The cadets in the program are aware of the program objectives.			5
The cadets are given an opportunity to provide their opinion about the program objectives.			5
The cadets are satisfied with the courses in the program.			3
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: Grace Macune Date: 1/7/26

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. The actual major-related courses are aimed at teaching the objectives and the subject matter of the FEE

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

I think some of the questions are worded a little bit odd. It was kind of hard to interpret the data enough to give a meaningful judgement on last year's class

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

N/A

Name: Blake Smith Date: 01JAN2026

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Blake Smith

Name: Blake Smith Date: 01/07

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Blake Smith Date: 01/07

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree	Neutral	Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			5√
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.			5
• Communicate effectively with a range of audiences.		3	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		3	
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.			5
• Acquire and apply new knowledge as needed, using appropriate learning strategies.			5
• Understand the chemical engineering curriculum.			5

Name: Blake Smith Date: 01/07

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.			5
The program objectives are consistent with the needs of the Army.			5
The program curriculum supports the program objectives.			5
The student outcomes are consistent with the program mission and objectives.			5
The program has a process for periodically assessing the achievement of its student outcomes.			5
The survey methods used by the program are effective.		4	
The cadets in the program are aware of the program objectives.		4	
The cadets are given an opportunity to provide their opinion about the program objectives.		4	
The cadets are satisfied with the courses in the program.			5
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: Blake Smith Date: 01/07

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?

A materials course

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

Yes, the right questions are being asked

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

n/a

Name: LIA STOKES Date: 07JAN25

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:
Lia Stokes

Name: Lia Stokes Date: 7JAN25

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: LIA STOKES Date: 07JUN25

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.			4		
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.					5
• Communicate effectively with a range of audiences.			4		
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.		3			
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.			4		
• Acquire and apply new knowledge as needed, using appropriate learning strategies.			4		
• Understand the chemical engineering curriculum.					5

Name: LIA STOKES Date: 7 JAN25

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.			5
The program objectives are consistent with the needs of the Army.			5
The program curriculum supports the program objectives.			5
The student outcomes are consistent with the program mission and objectives.			5
The program has a process for periodically assessing the achievement of its student outcomes.			5
The survey methods used by the program are effective.			5
The cadets in the program are aware of the program objectives.		4	
The cadets are given an opportunity to provide their opinion about the program objectives.			5
The cadets are satisfied with the courses in the program.			5
In my opinion, the faculty are aware of the program objectives.			5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			5

Name: LIA STOKES Date: 7JAN25

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. Foundational ChemE classes do great in providing foundation for follow-on classes and higher level classes are well rested / connected w/ one another.

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

Yes, questions are holistic in assessing academic performance while relating to institutional mission and vision.

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

N/A

Name: Landon Thomas Date: 07JAN2026

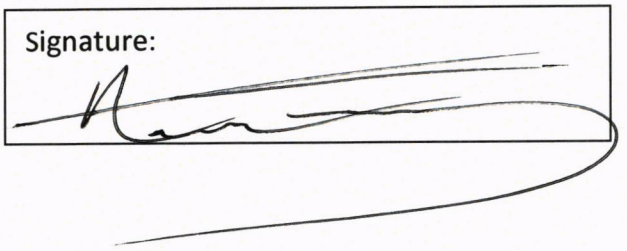
2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature:



Name: ANDON THOMAS Date: 07JAN2026

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: ANDON THOMAS Date: 07 JAN 2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.				✓	✓
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.				✓	✓
• Communicate effectively with a range of audiences.					✓
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.					✓
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					✓
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.				✓	✓
• Acquire and apply new knowledge as needed, using appropriate learning strategies.					✓
• Understand the chemical engineering curriculum.					✓

Name: ANDON THOMAS Date: 07 JAN 2026

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 are given an opportunity to provide their opinion about the program objectives.					✓
The cadets are satisfied with the courses in the program.					✓
In my opinion, the faculty are aware of the program objectives.					✓
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.			✓		

Name: ANDON THOMAS Date: 07JAN2026

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, THE DEPARTMENT IS TEACHING THE RIGHT CLASSES. I DON'T THINK ANY CLASSES SHOULD BE ADDED TO THE CURRICULUM.

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

I THINK THERE SHOULD BE A QUESTION ON WHETHER THERE SHOULD BE A CLASS TAKEN AWAY FROM THE CURRICULUM SINCE THERE IS A QUESTION ABOUT ADDING A CLASS. OTHERWISE THE QUESTIONS ARE GOOD AND THOROUGH.

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

MA!

Name: Thomas Tringali Date: 1/7/2025

2025 Cadet Program Briefing Surveys (Completed by Firsties in AY26-2)

This is your annual cadet survey for the **AY2025** program assessment, and it is important for continued ABET accreditation. The survey is designed to do three things. First, it serves to document your feedback on the program educational objectives. Second, it provides documentation that you have been made aware of the performance of our previous cadets on our student outcomes. Third, it allows us to use your collective opinions to improve our program.

Instructions

- Write your name and date on the top of each page.
- The second page of this handout contains a listing of program objectives and student outcomes. Please read this page carefully.
- Review the data pertaining to the achievement of student outcomes by our **2025** program graduates, and complete page 3 of the survey. Your survey responses should be based on the data presented. For each row, mark the survey form with an "x" in the box that most closely represents your opinion. Enter one response per row.
- Review the chemical engineering program objectives on page two, and complete page 4 of the survey. For this part of the survey, we are interested in your opinions on the relevance of the objectives and their consistency with the Academy mission and needs of the Army. Again, for each row, mark the survey form with an "x" in the box that most closely represents your opinion and enter one response per row.
- There are some free-form questions on page 5 for you to comment on the quality of the curriculum, the meeting itself or any other items you would like us to address.
- We will consolidate the data, include it in our program assessment, and review it in a separate meeting.
- The surveys are due by the end of this hour.
- Sign in the box below:

Signature: Thomas Tringali

Name: Thomas Tringali Date: 1/7/2025

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

- Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.
- Contribute to the solution of complex problems in a dynamic environment.
- Apply disciplined technical expertise to succeed in advanced study programs.

Chemical Engineering Student Outcomes: On completion of the chemical engineering program, our graduates will be able to:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Understand the chemical engineering curriculum, including:
    - Chemistry,
    - Material and energy balances,
    - 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: Thomas Thingali Date: 1/7/2026

Part I. Student Outcomes. Check the box that most closely represents your opinion.

The cadets who graduated last year have demonstrated that they	Strongly Disagree		Neutral		Strongly Agree
• Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.					5
• Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.					5
• Communicate effectively with a range of audiences.				4	
• Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.					5
• Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					5
• Develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions.					5
• Acquire and apply new knowledge as needed, using appropriate learning strategies.					5
• Understand the chemical engineering curriculum.				4	

Name: Thomas Thingali Date: 1/7/2026

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.					5
The program objectives are consistent with the needs of the Army.					5
The program curriculum supports the program objectives.					5
The student outcomes are consistent with the program mission and objectives.					5
The program has a process for periodically assessing the achievement of its student outcomes.					5
The survey methods used by the program are effective.					5
The cadets in the program are aware of the program objectives.					5
The cadets are given an opportunity to provide their opinion about the program objectives.					5
The cadets are satisfied with the courses in the program.				4	
In my opinion, the faculty are aware of the program objectives.					5
In my opinion, the faculty are given an opportunity to provide their opinion about the program objectives.					5

Name: Thomas Tringali Date: 1/7/2025

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, Maybe add a Materials class.

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

Definitely asking the right questions! More ethical stuff maybe.

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

Everything is great. CH459 helped a lot with putting it all together.

Program Assessment Briefing - Term 2026-2

Briefing Slides

Chemical Engineering Program

Program Assessment Briefing

January 7, 2026

United States Military Academy
Department of Chemistry and Life Science

Program Mission

The mission of the chemical engineering program is to prepare commissioned leaders of character who possess the intellectual capital to leverage new and emerging technologies

Re-written and approved by the cadets, advisory board and faculty on 12 April 2024

Program Objectives

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

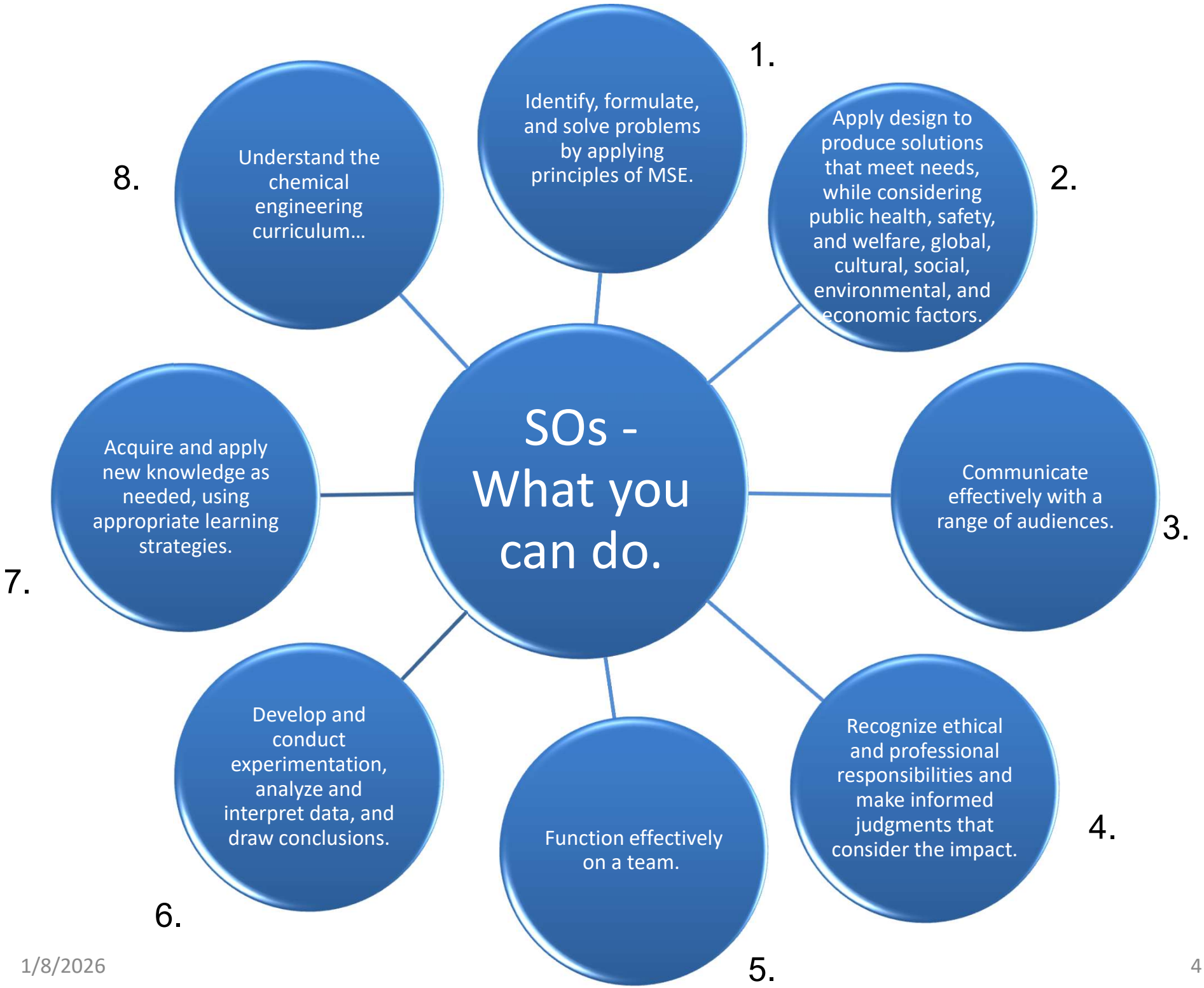
1. Demonstrate effective leadership by leveraging chemical engineering expertise and precise technical communication.

2. Contribute to the solution of complex problems in a dynamic environment.

3. Apply disciplined technical expertise to succeed in advanced study programs.

Re-written and approved by cadets, faculty, and advisory board on AY2024

Published in the USMA Redbook, Section 2

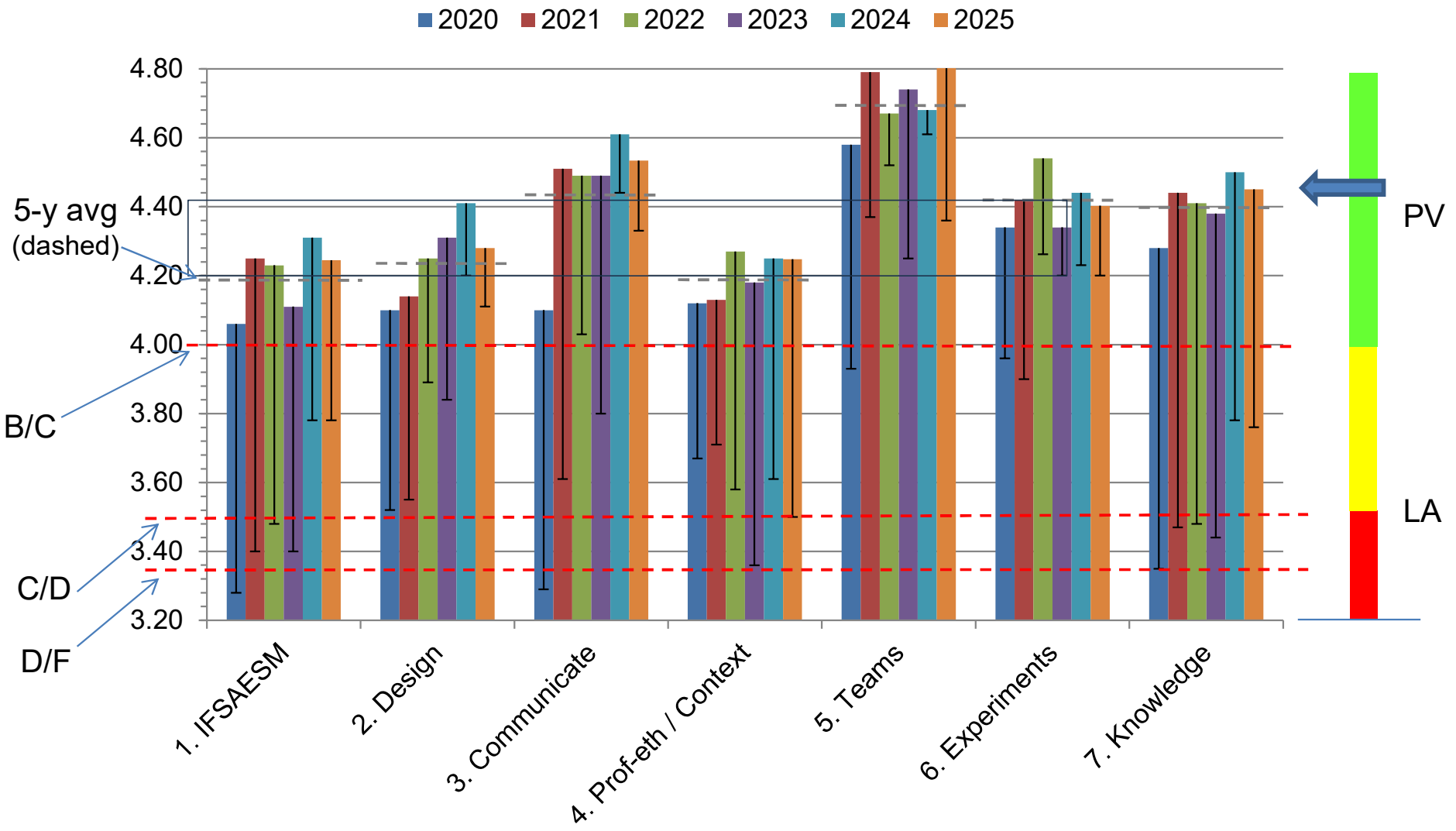

SOs - What you can do.
1.
Identify, formulate, and solve problems by applying principles of MSE.
2.
Apply design to produce solutions that meet needs, while considering public health, safety, and welfare, global, cultural, social, environmental, and economic factors.
3.
Communicate effectively with a range of audiences.
4.
Recognize ethical and professional responsibilities and make informed judgments that consider the impact.
5.
Function effectively on a team.
6.
Develop and conduct experimentation, analyze and interpret data, and draw conclusions.
7.
Acquire and apply new knowledge as needed, using appropriate learning strategies.
8.
Understand the chemical engineering curriculum…

Student Outcome 8 – Maps to Courses and FEE topics

On completion of the chemical engineering program, our graduates will be able to:
Understand the chemical engineering curriculum, including:
1. Chemistry,
2. Material and energy balances,
3. Safety and environmental factors,
4. Thermodynamics of physical and chemical equilibria,
5. Heat, mass, and momentum transfer,
6. Chemical reaction engineering.
7. Continuous and staged separation processes.
8. Modern experimental and computing techniques,
9. Process dynamics and control, and
10. Process design.

Performance on Embedded Indicators

Program Averages AY2020 to AY2025

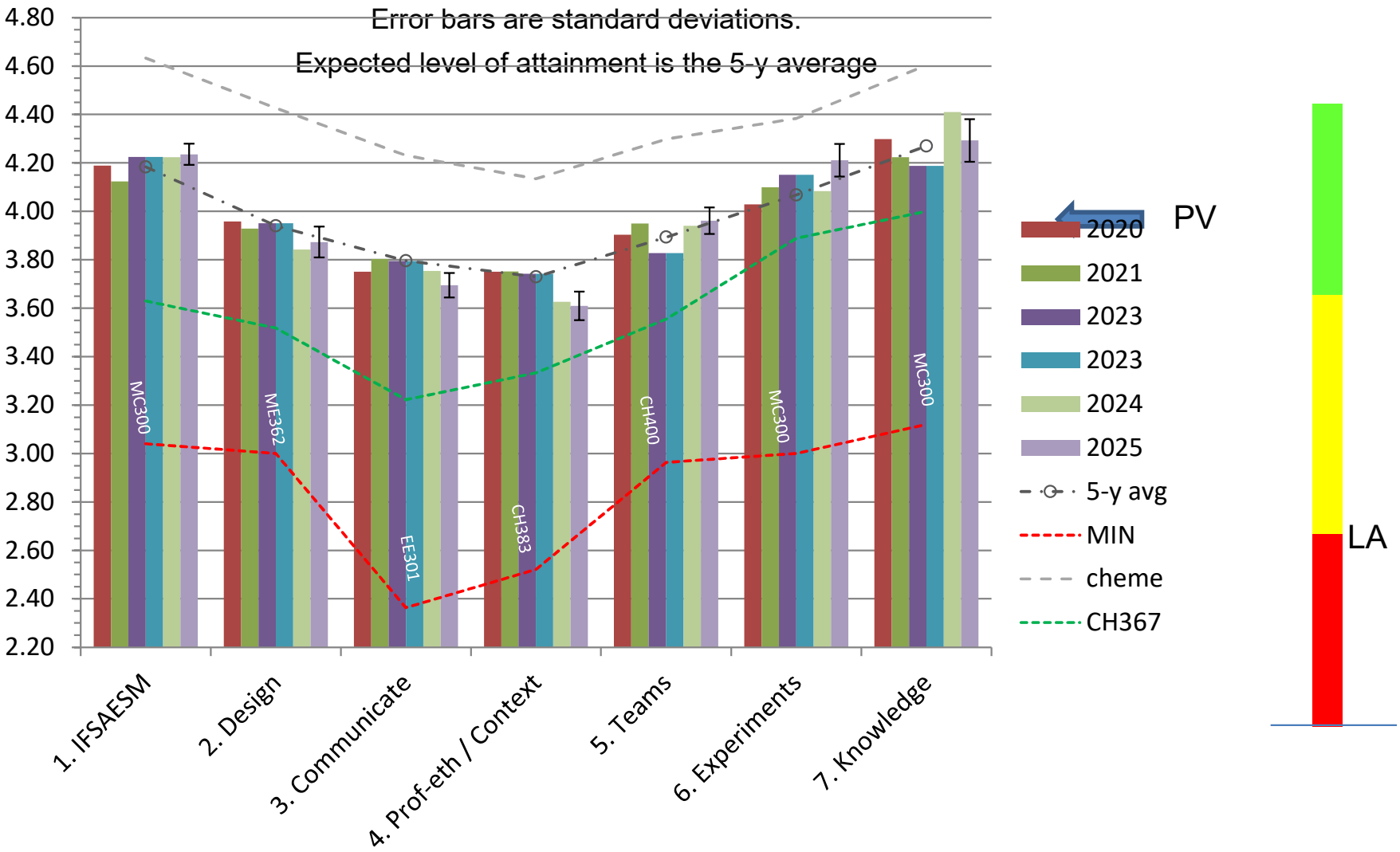


All indicators are in the green and trending upward.

- Expected levels of attainment are the 5-year averages.
- All indicators are in the green and trending upward.
- Cadets are doing very well in all embedded indicators.
- Error bars are minimum scores from course assessments.

End-of-Semester Surveys

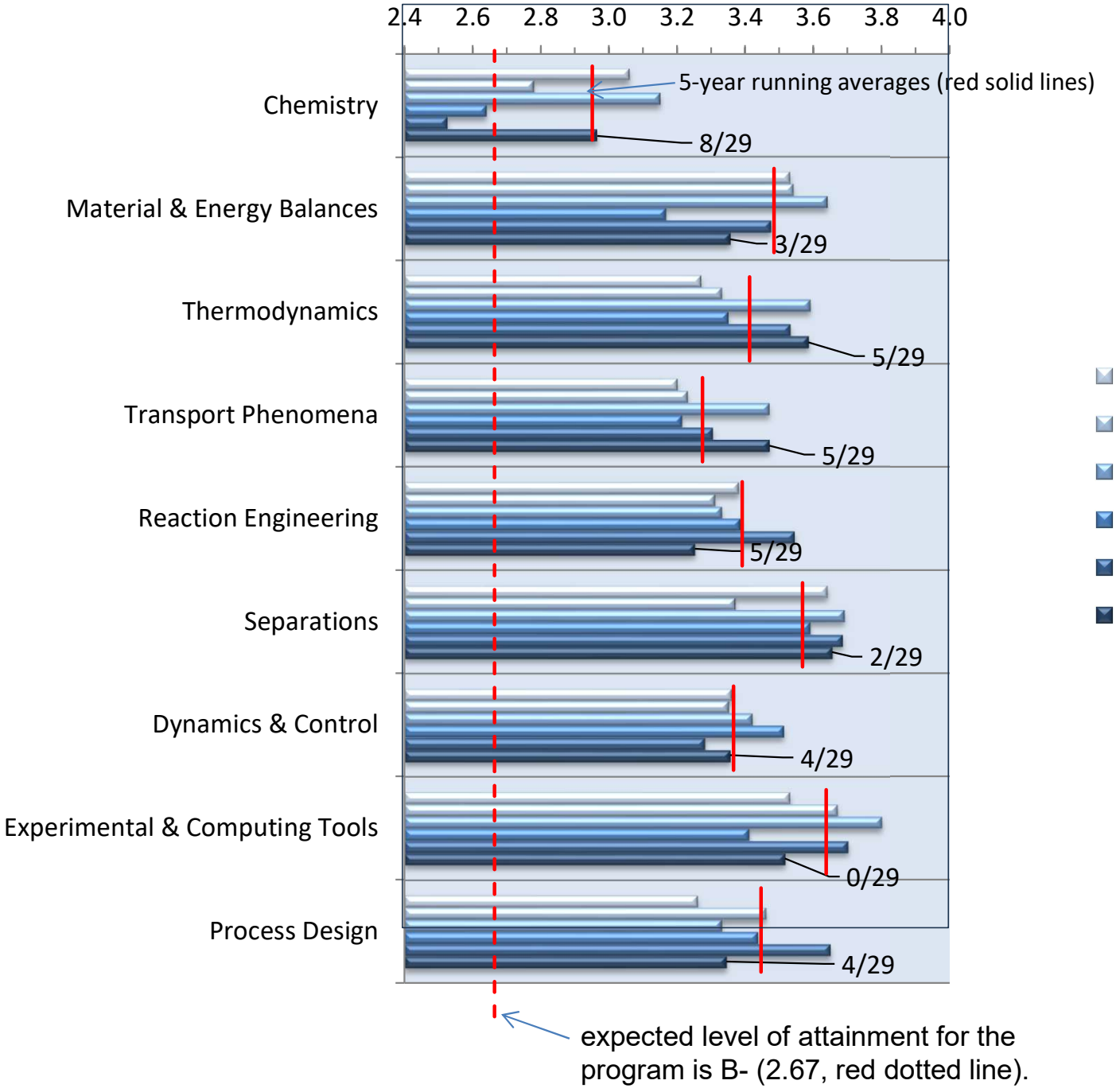
Program Averages from AY20-25



Topical Outcomes Evaluation

Student Outcome 8: Understanding of the Chemical Engineering Curriculum

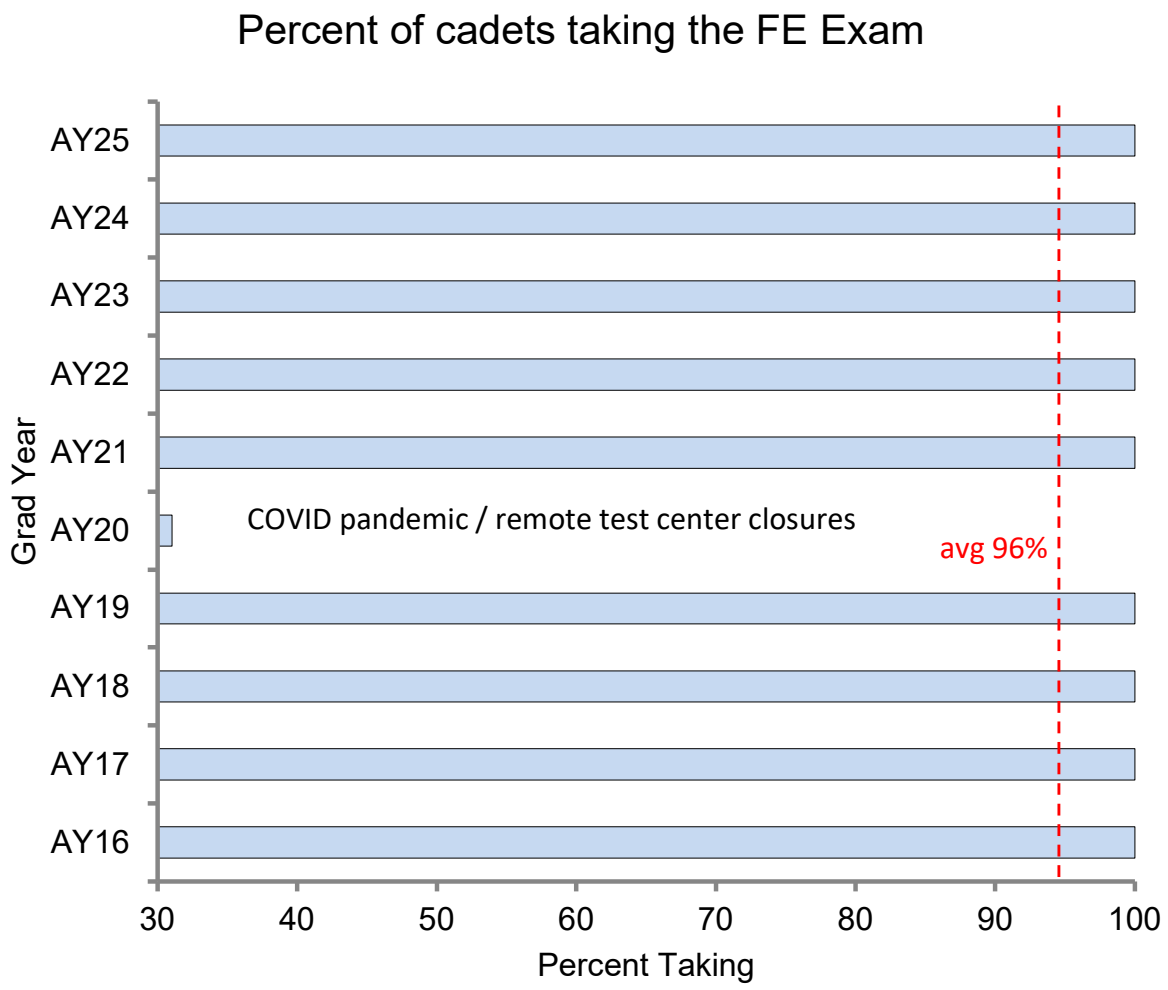
Average GPA from Transcripts, AY2020 to AY2025



Letter Grade	Grade Point Conversion
A+	4.33
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D	1.00
F	0.00

Fundamentals of Engineering Exam

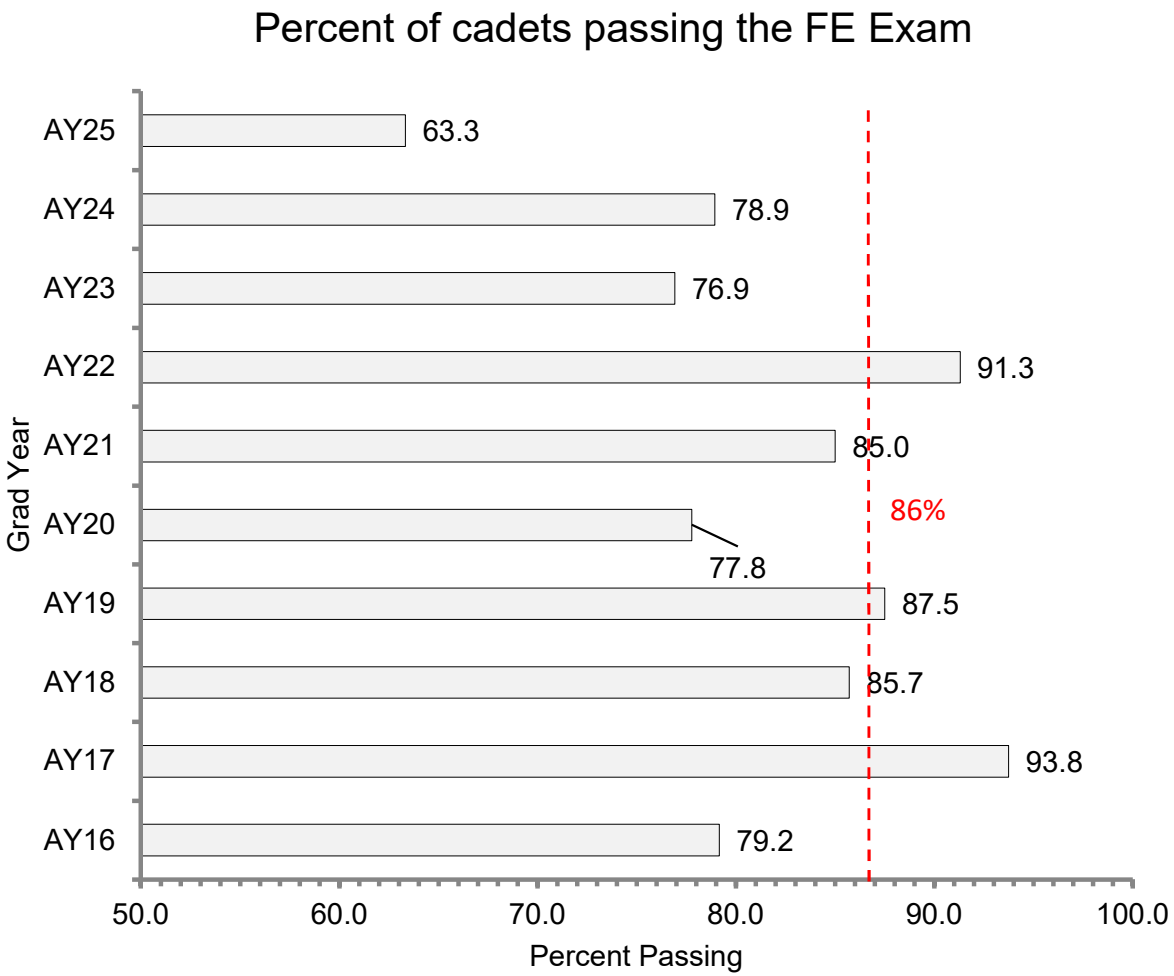
Student Outcome 7: Acquire and apply new knowledge as needed, using appropriate learning strategies



The average take rate was 86% prior to introduction of CH400 in AY2010.

Fundamentals of Engineering Exam

Student Outcome 1: Identify, formulate, and solve problems by applying principles of engineering, science, and mathematics.



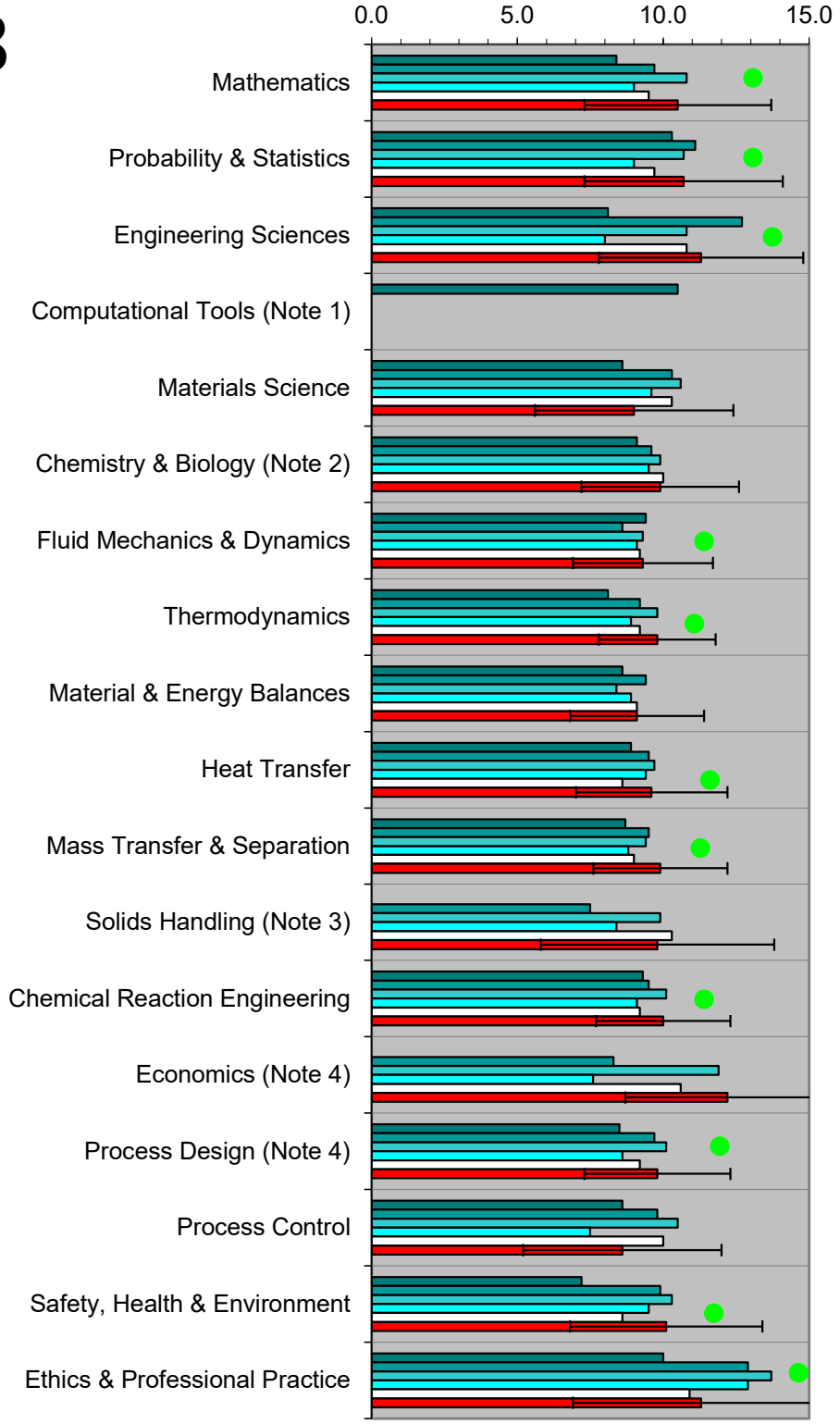
National, % Pass:

2025	70.9%
2024	73.2%
2023	70.2%
2022	70.7%
2021	74.0%
2020	74.6%
2019	77.0%
2018	75.0%
2017	74.0%
2016	79.0%

Outcome 8 Evaluation

FEE Results by Topic

AY20 to AY25



Topics labeled with green circles (●) increased from last AY.

The error bars are the individual standard deviations for the AY25 data.

The average standard deviation over all data is 3.0.

Notes:

(1) This topic dropped in 2021.
(2) "& Biology" added in 2021
(3) New exam spec in 2021
(4) Economics separated from process design in 2021.

Advisory Board 2024

Original Board Members attending:

No.	Name	Title	Industry - University	Email	Attending?
1	COL(R) Paul Dietrich	Chemical Officer & Refinery Manager	Chemical Officer/Industry	paul@the-dietrichs.com	Yes
2	Prof. Matthew Liberatore	Professor, Chemical Engineering	University of Toledo	matthew.liberatore@Utoledo.edu	Yes
3	Prof. Kelly Schultz	Associae Professor, Chemical Engineering	Purdue University	kmschultz@purdue.edu	Yes
4	Prof. Gautham Krishnamoorthy	Professor, Chemical Engineering	University of North Dakota	gautham.krishnamoort@und.edu	Yes
5	Mrs. Kisondra Tanev	Director, Power & Renewables Investment Banking	Bank of America	kisondra@gmail.com	Yes
6	Mr. Kevin Shipe	Account Manager, Chem E (Old Grad '08), Former Automation Engineer	The Graham Company	kevin.a.shipe@gmail.com	Yes
7	Mr. Michael DeForest	Industry, Chem E (Old Grad '07), Senior Director of Operations,	Fortna	michaeldeforest@fortna.com	Yes
8	Mr. Michael Theising	Industry, Chem E (Old Grad '11), Vice President of Operations	Brenntag Group	m.theising@gmail.com	Yes
9	Prof. Susan Daniel	William C. Hooey Director and Fred H. Rhodes Professor of Chemical Engineering	Cornell University	sd386@cornell.edu, Admin Assistant: ak	Yes
10	Prof. Robert Savinell	Distinguished University Professor, Professor of Chemical Engineering	Case Western Reserve University	rfs2@case.edu	Yes
11	Dr. Lucy Hair	Specialist and Chemical Engineer	Jacobs Engineering at Lawrence Livermore National Laboratory	hair1@llnl.gov	No
12	LTC(R) Matthew Armstrong PhD	Associate Professor (Retired LTC) and Principal Engineer	Fluor Marine Propulsion, Schnectady, NY	armstm@udel.edu	NO
13	COL Aaron Hill, PhD, PE	Deputy Head, Department of Civil & Mechanical Engineering	USMA; CME	aaron.hill@westpoint.edu	NO

External panel outside visitors representing the various Represents “constituencies” of the program (civilian and military).

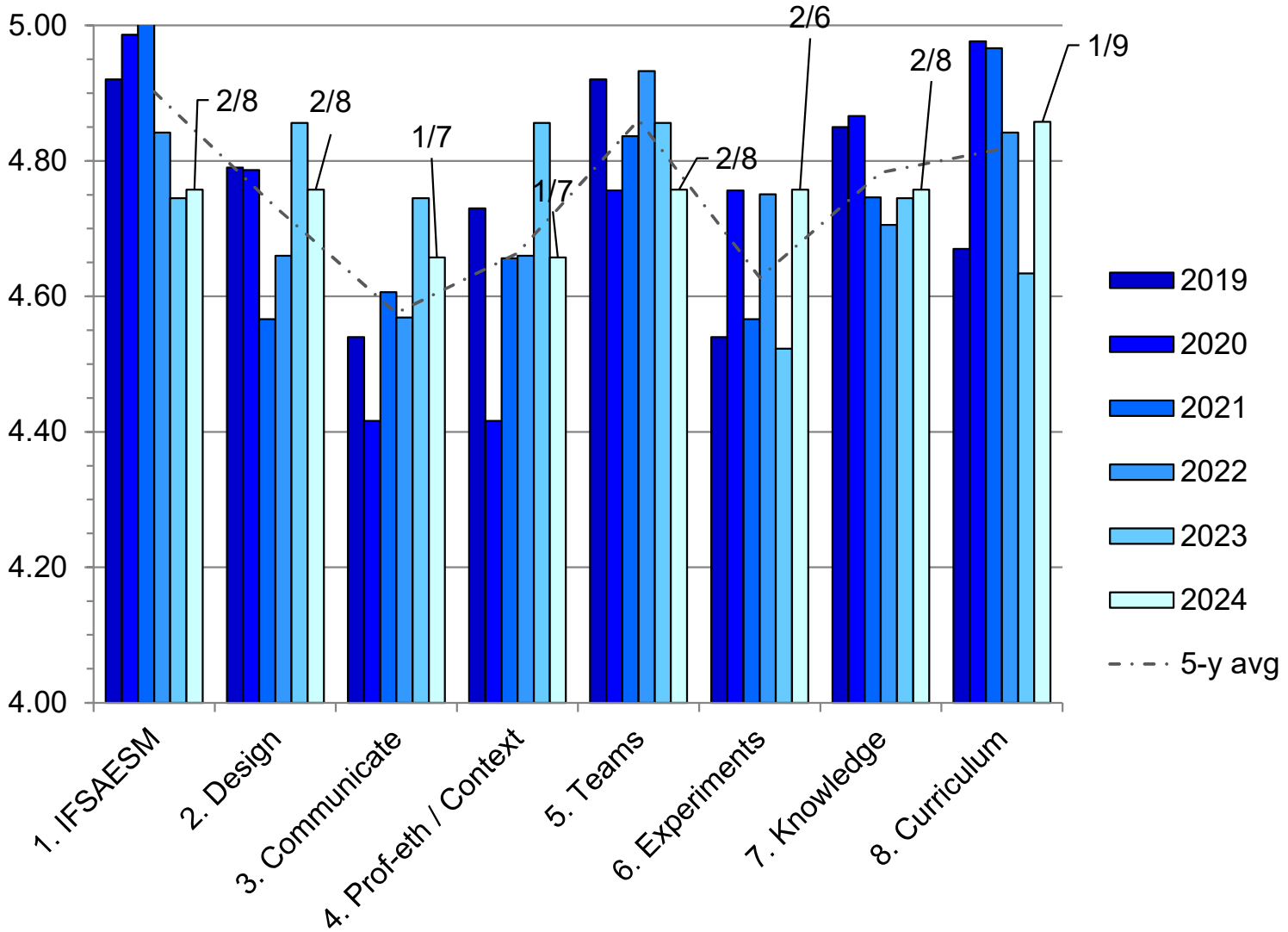
Assists with program educational objectives and assessment.

Advisory Board Student Outcomes Surveys

Student Outcomes 1-8

Program Averages from AY19-24

Data labels are response frequencies for 4 or 5 (# of 4s / # of 5s) on the 1-5 Survey Likert Scale
Standard deviations range from .00 to .52



AY25 data will be available after the next advisory board meeting in Spring 2026.

ABET | Engineering Technology Accreditation Commission

Please make sure you complete the surveys.

Accredited 1 October 2012 to present

Next Visit – 20-23 September 2026