AY2021 Chemical Engineering Program Exit Survey

Name: Benjamin Abbott Date: 04/19/21

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

The program has prepared me to:	**Strongly Disagree**		**Neutral**		**Strongly Agree**
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				x	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				x	
· Communicate effectively with a range of audiences.				x	
· 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.				x	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				x	
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				x	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Benjamin Abbott Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
Separation Processes. It was taught well and introduced concepts that were used throughout chemical engineering.

What was your least favorite course in the program? What would you change about it?
All classes were good. Least favorite would be CH459 because of the pacing. It was really good to be in a lab and do actual work but it seemed to move too fast.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
The faculty for ChemE is awesome. Among the best instructors at USMA and they are always willing to make time to help cadets.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
Yes and yes. I have already spoken to Dr Nagelli and LTC James about doing so.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
As of now I plan on staying in the Army.

AY2021 Chemical Engineering Program Exit Survey

Name: Thomas Alvermann Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					x
· Communicate effectively with a range of audiences.					x
· 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.				x	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					x
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					x
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Thomas Alvermann Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

I enjoyed chemical engineering laboratory. It brought together all the concepts we learned previously into real applications of chemical engineering.

What was your least favorite course in the program? What would you change about it?

I did not enjoy chemical engineering thermodynamics. It was a great course and was taught well, but I had already learned most of the content in the mechanical engineering department's thermo-fluids classes and found it redundant. I would take this course out of the program because of the redundancy.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

I enjoyed how involved the faculty are in enabling cadet success at West Point. They care about professional and cadet development, willing to provide help on problem sets as well as writing letters of recommendation or helping with resumes.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

I do not think my current career path in the medical field would allow that to happen. I would enjoy it, but I do not think it would work well for me.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

I plan to stay in the army as a medical doctor. After I retire I hope to continue being in the medical profession.

AY2021 Chemical Engineering Program Exit Survey

Name: Hunter Beauchamp Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					x
· Communicate effectively with a range of audiences.					x
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					x
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					x
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Hunter Beauchamp Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH459 was definitely my favorite because I was able to apply knowledge and skills learned in the program to real world scenarios.

What was your least favorite course in the program? What would you change about it?
I did not dislike any of the courses. I enjoyed all of them and liked how they were taught and planned.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
I liked the ease of access to all instructors and how they were all more than willing to help at any time of day.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
I would definitely be interested in returning to West Point as an instructor if I am still in the Army and would like to be contacted about it when the time comes.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I am not sure if I will leave after my service obligation, but if I do I would likely want to work in industry in some manner.

AY2021 Chemical Engineering Program Exit Survey

Name: Kevin Brooks Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				x	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					x
· Communicate effectively with a range of audiences.					x
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					x
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				x	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.				x	

AY2021 Chemical Engineering Program Exit Survey

Name: Kevin Brooks Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH459 - I really appreciated the context it provided for everything that we had been learning during our time here.

What was your least favorite course in the program? What would you change about it?
CH485 - I was the most academically rigorous, which isn't a bad thing, but forced me to commit a large amount of time to memorizing the concepts that we had studied. I know the stuff we studied in that class was important though, so it was alright. I honestly appreciated and enjoyed every class in this program. If I could change something about CH485, I would make the tests open-note and reward diligent note-taking.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
The instructors are to die for! I seriously cannot thank them enough! They care so much for us and are willing to bend over backwards at any time of day for us. They have earned my loyalty through dedication to us and our betterment.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
Yes and Yes!

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I don't think so. If I like what I'm doing, then I'll stay; if not, I think I would like to work in the firearms industry. I love competition shooting and would love to work in firearm design.

AY2021 Chemical Engineering Program Exit Survey

Name: Joseph Canterbury IV Date: 04/19/21

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

The program has prepared me to:	**Strongly Disagree**		**Neutral**		**Strongly Agree**
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					1
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				1	
· Communicate effectively with a range of audiences.			1		
· 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.				1	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					1
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				1	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.				1	
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					1

AY2021 Chemical Engineering Program Exit Survey

Name: Joseph Canterbury Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

Chemical Seperations. LTC James should be forced to teach it, even when he is the department head.

What was your least favorite course in the program? What would you change about it?

Heat Transfer class was super hard, and was the least interesting. I learned more from writing a 5 page paper than studying for the WPRs. I thik this class needs to be taught differently and focus more on application (such as problem solving) and real world uses (other than just using the term 'at a refinery') than how to derive equations. Problem sets were challenging, and the textbook was of little use.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

The faculty in this program are absolutly fantastic. Both as instructors and mentors inside and outside of the classroom, they do a great job ensuring the well being of cadets. The cadets in the department are pretty close nit. While I do not hang out with many of my peers, we bounded well after the death of Kade Kurita. Our professors were also there for us during this time. Great Department! Dr. Nagelli

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

Absolutly not. I hope the department stays in touch with me in the future and I hope to donate one day, but I never plan on being an instructor at West Point.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

I am not sure, but I do not plan on staying in the army forever. I plan to go into the oil and gas business or go to law school.

AY2021 Chemical Engineering Program Exit Survey

Name: Louis Cornell Fuka Date: 04/19/21

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

The program has prepared me to:	**Strongly Disagree**		**Neutral**		**Strongly Agree**
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					X
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					X
· Communicate effectively with a range of audiences.					X
· 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.					X
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					X
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					X
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					X
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					X

AY2021 Chemical Engineering Program Exit Survey

Name: Louis Cornell Fuka Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

Separations - the graphs were interesting and a nice way of reading information aside from raw data

What was your least favorite course in the program? What would you change about it?

EE301, if a part of the core curriculum - it just beat you down with tests with short time periods and quizzes every day. Otherwise Reaction Engineering - its a really difficult subject to learn, and having it during the online semester was very rough.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

Faculty and cadet interactions in and out of the classroom were amazing. I entered the program not sure if I wanted to be a ChemE, but felt immediately accepted and welcomed. The faculty were readily available for question, both dumb and intelligent, and were relate-able and accessible in and out of the classroom.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

Yes, Yes

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

I'm not sure - I'd like to work at DOW Freeport.

AY2021 Chemical Engineering Program Exit Survey

Name: Chase Hogeboom Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					X
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					X
· Communicate effectively with a range of audiences.				X	
· 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.				X	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					X
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					X
· Acquire and apply new knowledge as needed, using appropriate learning strategies.				X	
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.				X	

AY2021 Chemical Engineering Program Exit Survey

Name: Chase Hogeboom Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

Separations!

What was your least favorite course in the program? What would you change about it?

Reactions; reducing the number/volume of problem sets would be very helpful. Labs were relevant to the course material, but weren't leveraged to build an understanding of concepts assessed on the WPRs. This is a fantastic course, but COVID-19 and the subsequent transition made it very difficult at the end of AY20-2.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

The ChemE faculty are amazing and extremely accessible, honestly one of the highlights of my time as a cadet.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

Yes and yes; I am planning to pursue a ChemE Masters. I'm certainly not the strongest student in this program, but would greatly appreciate being considered.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

I will the Army leave around the 10-11 year mark at the earliest; I would like to work in the petrochemical industry on the Gulf coast (Florida or Texas).

AY2021 Chemical Engineering Program Exit Survey

Name: Gabriela Huggins Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					X
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					X
· Communicate effectively with a range of audiences.				X	
· 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.				X	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					X
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				X	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					X
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					X

AY2021 Chemical Engineering Program Exit Survey

Name: Gabriela Huggins Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
My favorite course was the Chemical Engineering Laboratory with Dr. Nagelli.

What was your least favorite course in the program? What would you change about it?
Controls was my least favorite course. I would not change anything about it, I just wasn't good at it.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
I enjoyed my AIAD in Picatinny Arsenal.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
No

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I plan on leaving after my service and hopefully become a process engineer.

AY2021 Chemical Engineering Program Exit Survey

Name: Mark Jaskot Date: 04/22/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				x	
· Communicate effectively with a range of audiences.				x	
· 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.			x		
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				x	
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					x
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Mark Jaskot Date: 04/22/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
Process Controls

What was your least favorite course in the program? What would you change about it?
MC300. I don't think the course really applied to a ChemE degree and what we learned in it wasn't necessary for the FE exam. I would make it an elective for ChemEs.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
Research was crucial to my development outside of the classroom and gave me a broader appreciation for the applicability of chemical engineering.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
Yes, I am definitely interested, and I would love for the program to contact me!

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I plan on leaving the Army at 12 years (Aviation service obligation) and I would like to get into the energy industry, either on the R&D or the business/government side.

AY2021 Chemical Engineering Program Exit Survey

Name: Tae Young Kim Date: 04/21/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				X	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				X	
· Communicate effectively with a range of audiences.				X	
· 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.				X	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				X	
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				X	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.				X	
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.				X	

AY2021 Chemical Engineering Program Exit Survey

Name: Tae Young Kim Date: 04/21/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
Mass and energy balance

What was your least favorite course in the program? What would you change about it?
Heat and mass transfer. Can't do much to change it since the nature of the course is pretty dense.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
Really loved taking advantage of 2 different AIAD that went beyond the scope of engineering. One AIAD I did biology research another AIAD I was doing economical analysis.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
Yes, I would love to come back to teach. tae.y.kim96@gmail.com

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I want to get a graduate school education so will stay until my masters degree before deciding my career path.

AY2021 Chemical Engineering Program Exit Survey

Name: Andrew Mackey Date: 04/21/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					X
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.			X		
· Communicate effectively with a range of audiences.				X	
· 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.				X	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				X	
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.			X		
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					X
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					X

AY2021 Chemical Engineering Program Exit Survey

Name: Andrew Mackey Date: 04/21/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH459, gave an overall "purpose/ direction" of prior courses in real life applications.

What was your least favorite course in the program? What would you change about it?
CH367, most labs were hard to follow. Part of the problem was quarantine but felt that they would tend to not be traced back to materials studied in class.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
The AICHE lecture series and ability to watch after the fact have been great for better professional and higher education purposes.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
No

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
Currently yes, possibly USACE or business consulting

AY2021 Chemical Engineering Program Exit Survey

Name: Myles Mazeke Date: 04/23/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				x	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					x
· Communicate effectively with a range of audiences.				x	
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			x		
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.			x		
· Acquire and apply new knowledge as needed, using appropriate learning strategies.				x	
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Myles Mazeke Date: 04/23/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

Process controls

What was your least favorite course in the program? What would you change about it?

Heat and Mass transfer. I think it would benefit from being a year long course. It felt like a lot to retain in a short time.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

I enjoyed the approachable nature of all the faculty and the support for peer collaboration.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

I would be interested in returning as an instructor. I would like to be contacted in 6-8 years.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

I plan to leave the Army after my obligation. I would like to work in the music industry, esports industry, or a ChemE job in the energy sector.

AY2021 Chemical Engineering Program Exit Survey

Name: Lucas McCleery Date: 04/30/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				x	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				x	
· Communicate effectively with a range of audiences.			x		
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				x	
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.			x		
· Acquire and apply new knowledge as needed, using appropriate learning strategies.				x	
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Lucas McCleery Date: 04/30/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
The FEE prep course was enjoyable to me despite the heavy task load of the course.

What was your least favorite course in the program? What would you change about it?
The thermal fluids courses. I would prefer for the classes to be executed within the department if possible expansion exists in the future.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
The faculty interaction within the department is what initially drew me to the program and is what motivated me through the last four years.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
I would be interested in returning to West Point should I be in the proper position to do so in my Army carreer. Yes.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I have not made this decision yet as I am not entirely sure on how my experiences in the real Army will affect my opinions.

AY2021 Chemical Engineering Program Exit Survey

Name: CDT Josh Musiol Date: 04/21/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				x	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				x	
· Communicate effectively with a range of audiences.				x	
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.				x	
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				x	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: CDT Josh Musiol Date: 04/21/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
My favorite course from the program was Separations because it was the first time I felt that I was truly being challenged with difficult Chemical Engineering concepts.

What was your least favorite course in the program? What would you change about it?
My least favorite course was reactions because it was extremely difficult but weighted as a normal course. I would hope that it in the future it could be a 4.0 to 4.5 credit course with a 70-75 minute block to allow for further instruction and coverage of the material.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
I attended an AIAD to Picatinny Arsenal in NJ and learned unique aspects of the experimentation phase of the engineering process.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
I would absolutely consider being a part of the CLS program in the future, and I would like to be contacted about it in the future.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
At this time, I plan on staying in the Army past my initial five year service obligation.

AY2021 Chemical Engineering Program Exit Survey

Name: Prakash Nigam Date: 04/22/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					x
· Communicate effectively with a range of audiences.				x	
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					x
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					x
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Prakash Nigam Date: 04/22/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH459

What was your least favorite course in the program? What would you change about it?
SS 202. I felt it was not as informative as SS 307 and was a very dry course. It should have more real world application as opposed to theory.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
The culture in the Chem-E program was amazing. My instructors never let me give up on myself no matter how bad my situation was. The program is challenging but the people definitely made it worth it. I owe my success to them.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
I am interested in returning as faculty. I think I want to get all the HOOAH Army stuff out of my system first, but I would love to come back here to teach.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I'm not sure yet. If I do get out, I plan on doing a dual masters degree in international business and engineering management. This will allow me to work for a management consultant firm, which will set me up for success.

AY2021 Chemical Engineering Program Exit Survey

Name: Nate Olsavsky Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					X
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					X
· Communicate effectively with a range of audiences.					X
· 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.					X
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					X
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					X
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					X
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					X

AY2021 Chemical Engineering Program Exit Survey

Name: Nate Olsavsky Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

My favorite courses were CH364 and CH367, which was my favorite semester for ChemE overall. I feel that I understand the material most in these classes and enjoyed the instructors I had for these classes (Dr. Nagelli and LTC James).

What was your least favorite course in the program? What would you change about it?

My least favorite course was likely CH402. While I did enjoy being in the lab and working on 6 different experiments, I thought the objectives and expectations could be explained better for each experiment. At times it felt very tedious and a grind, and I think it would be better run if 2 instructors were in the class at a time to help cadets.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

While I did not do any AIADs for ChemE, I know they provided some excellent opportunities! My favorite aspect of the program is the interactions with faculty outside the classroom, whether that was through research or just having personal and professional conversations with faculty. I don't know if there is a better department where instructors are so willing to help cadets, even outside the realm of academic challenges.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

Yes, I am definitely interested! I have to admit that I was more passionate about returning as an instructor Cow Year than I am now, however I am still very interested in the opportunity and if there is anything I can do now to help with that process, please let me know.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

Right now, I do plan on leaving the Army after my service obligation, however I am not certain I will leave right away. It is still up in the air and Grad school/licensing (PE, PMP) are definitely a factor I consider as well as coming back as an instructor. If I do leave the Army, I hope to use my degree in the pharmaceutical, food, or health industries.

AY2021 Chemical Engineering Program Exit Survey

Name: Thomas Rafferty Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.					x
· Communicate effectively with a range of audiences.			x		
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			x		
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.			x		
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Thomas Rafferty Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH459 because I liked how everything we learned came together in one class.

What was your least favorite course in the program? What would you change about it?
Chemical reaction engineering. The end of the course was too much with the amount of problem sets and information.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
I did research under GENE, but the support for the research programs and for Cadets in general from faculty was great.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
I do not foresee myself staying in the Army long enough to do so.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
Consulting or engineering management.

AY2021 Chemical Engineering Program Exit Survey

Name: Jeffrey Tantow Date: 04/22/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				x	
· Communicate effectively with a range of audiences.					x
· 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.					x
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					x
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.				x	
· Acquire and apply new knowledge as needed, using appropriate learning strategies.				x	
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Jeffrey Tantow Date: 04/22/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH459: Chemical Engineering Lab

What was your least favorite course in the program? What would you change about it?
CH364: Chemical Reaction Engineering

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
I enjoyed how close the faculty were to the cadets, with a small program the faculty can know you on a personal level. As well I really enjoyed working with my classmates.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
I would and yes I would like to be contacted.

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
I do not, however if I realize that the Army is not for me, I may pursue a Chemical Engineering job or some federal law enforcement job.

AY2021 Chemical Engineering Program Exit Survey

Name: Sophia Tarpey Date: 04/20/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics				X	
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.			X		
· Communicate effectively with a range of audiences.			X		
· 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.				X	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.			X		
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					X
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					X
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					X

AY2021 Chemical Engineering Program Exit Survey

Name: Sophia Tarpey Date: 04/20/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?

I thought CH459 was a great class in that we actually did lab work and got to use all the equipment that we had do theoretical work on for the previous two years. It was a great class for team work as well and the set up provided ample amounts of time to complete all assignments. And, per usual, Dr. Nagelli was a great instructor.

What was your least favorite course in the program? What would you change about it?

CH402 this semester has been my least favorite class. I am not a fan of the fact that we spend the first half of the class on learning knew matterial and taking tests, which we then have to have a TEE on, but then the second half on a Capstone. It is hard to think about taking a TEE while trying to work on a capstone. I think the assignment for the capstone deserves a lot of work to get the most out of it, and would be better on its own. I also think we did not cover some of the economic analysis sheets enough to feel comfortable applying them to the capstone without assistance.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)

My favorite part about this major is the approachability of the instructors and every instructors desire to help. It is very obvious that th eteachers are invested in students' success. I have particularly taken a lot of LTC James and Dr. Nagelli's time over the past three years getting AI, and I cannot express enough gratitude for their help in my learning. The instrutors in the department are the biggest reason I would recommended other people join this major.

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?

Yes and yes

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?

Yes. Maybe engineering things, maybe just coaching at a gym

AY2021 Chemical Engineering Program Exit Survey

Name: Taylor Vessel Date: 04/19/21

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

The program has prepared me to:	Strongly Disagree		Neutral		Strongly Agree
· Identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics					x
· Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, & welfare, as well as global, cultural, social, environmental, and economic factors.				x	
· Communicate effectively with a range of audiences.					x
· 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.				x	
· Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.					x
· Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.					x
· Acquire and apply new knowledge as needed, using appropriate learning strategies.					x
· Understand the chemical engineering curriculum, including advanced chemistry, material & energy balances, safety and environmental factors, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, modern experimental and computing techniques, and process design.					x

AY2021 Chemical Engineering Program Exit Survey

Name: Taylor Vessel Date: 04/19/21

Part II. Open questions.

What was your favorite course in the chemical engineering program?
CH485: Heat & Mass Transfer

What was your least favorite course in the program? What would you change about it?
EE301 I would rather take a class that had 3 blocks: ChemCAD/Aspen HYSYS Block, MATLAB Block, and then a block that teaches the basics of electrical circuits for those 1-2 questions that one MAY get on the FE Exam.

Other than courses, was there any aspect of the program you particularly enjoyed? (i.e., AIADs, research, club, faculty and cadet interactions outside the classroom, etc.)
By far best faculty at the Academy

Projecting ahead 6-8 years, do you think you would you be interested in returning to West Point as an instructor if you are still in the Army? If so, would you like us to contact you?
Maybe/possibly, not sure

Do you plan on leaving the Army after your service obligation, and if so, what is your desired profession?
Process Engineer then hopefully Plant/Operation Manager