

Construction Management (BT) BroncoCollect Assessment Report

Assessment Cycle 2018 - 2021

Table of Contents (*links to pages embedded in each bullet*)

- Mission

- Goal 1 – Students will be able to effectively communicate

- Goal 2 – Students will be able to understand basic project controls

- Goal 3 – Students will be able to understand construction ethics

- Goal 4 – Students will understand and demonstrate common construction practices and latest technologies

- Goal 5 – Successfully obtain 4yr ACCE Accreditation

- Goal 6 – Continue faculty engagement in professional development in construction related activities

- Goal 7 – Upon graduation, students will be prepared for a professional construction-based career

- Goal 8 – Continually grow industry connections for student internships, full-time employment and fundraising opportunities

- Goal 9 – Modernize facilities, laboratory & course equipment and safety standards to industry standard and beyond

- Goal 10 – Engage students and faculty in civic, volunteer project based and extracurricular construction activities

Mission

Consistent with SUNY Delhi's mission, the Construction Management program provides students with hands - on, experiential learning that focuses on commercial, residential, heavy/civil, and industrial construction. The program combines a mixture of construction, architecture, engineering, business and liberal arts & science coursework. The program fully prepares students in the most modern techniques of "Means and Methods" including: construction materials, basic structural theory, environmental and power systems, materials testing, surveying, field supervision, project management, and contemporary topics such as LEED or sustainable applications.

Goal 1	Students will be able to effectively communicate.		
	2018-19	2019-20	2020-21
Outcome 1.1	SLO #1 – Create written communications appropriate to the construction discipline		
Action Plan	Continue to reiterate the importance of written communication through assignments and feedback to students.	AECT 390/395: All did well and met, some binders were exceeding and some simply met the minimum requirements. AECT 450: This assessment was based on an in-depth project with many facets. The project is typically assigned in the classroom where a different type of interaction takes place. This year, due to the Covid situation, it was done entirely online. Even though an online Q&A form was set up for project questions, it was not used by the students. With only 44% meeting or exceeding the benchmark, the project delivery will be modified if the online format continues in the future.	1.1.1 - COVID an issue, student work ethic lagged this year. No changes, 1.1.2 - Internship Binder - No Change, COVID was an issue not student preparedness
Update to Prior Year's Action Plan	Will be implementing the action plans showing specifically how and if specific coursework can create action for implementation in the following academic year.	No Updates	
Measure 1.1.1	AECT 450 –Individual Comprehensive Project		
Benchmark Indirect/Direct	Benchmark: Benchmark measure is for 70% to achieve Meeting or Exceeding.	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 53 Exceeding: 32 % Meeting: 49% Approaching: 11% Not Meeting: 8%	Number Assessed: 25 Exceeding: 20 % Meeting: 24% Approaching: 56% Not Meeting: 0%	Number Assessed: 27 Exceeding: 26 % Meeting: 37% Approaching: 37% Not Meeting: 0%
Measure 1.1.2	AECT 390 / 395 – Internship Binder ACCE SLO #1		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 55 Exceeding: 45 % Meeting: 55% Approaching: 0% Not Meeting: 0%	Number Assessed: 30 Exceeding: 27 % Meeting: 73% Approaching: 0% Not Meeting: 0%	Number Assessed: 12 Exceeding: 100 % Meeting: 0% Approaching: 0% Not Meeting: 0%
Outcome 1.2	Create oral presentations appropriate to the construction discipline		
Action Plan	Continue to reiterate the importance of oral communication through assignments and feedback to students.	AECT450: Due to lack of face-to-face contact, the presentation assignment was modified to include a Powerpoint and a script for the slides. Students didn't actually give an oral presentation in front of the class. In the future if this online learning continues, I may require a Zoom presentation, or other means of presenting.	1.2.1 - Internship Presentation - No Change, COVID was an issue not student preparedness, 1.2.2 - Benchmark met, no changes
Update to Prior Year's Action Plan	Will be implementing the action plans showing specifically how and if specific coursework can create action for implementation in the following academic year.		
Measure 1.2.1	AECT 390 / 395 – Internship Presentation ACCE SLO #2		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 55 Exceeding: 18 % Meeting: 82% Approaching: 0% Not Meeting: 0%	Number Assessed: 30 Exceeding: 50 % Meeting: 50% Approaching: 0% Not Meeting: 0%	Number Assessed: 12 Exceeding: 100 % Meeting: 0% Approaching: 0% Not Meeting: 0%
Measure 1.2.2	AECT 450 – Oral Presentation		
Benchmark Indirect/Direct	Benchmark: Benchmark measure is for 70% to achieve Meeting or Exceeding.	Direct/Indirect: Direct	

Assessment Results	Number Assessed: 53 Exceeding: 32 % Meeting: 68% Approaching: 0% Not Meeting: 0%	Number Assessed: 24 Exceeding: 13 % Meeting: 67% Approaching: 21% Not Meeting: 0%	Number Assessed: 17 Exceeding: 52 % Meeting: 26% Approaching: 19% Not Meeting: 1%
Outcome 1.3	Create a construction project safety plan		
Action Plan	Continue to develop and build on the importance of safety plans.	AECT 300 - 100% met or exceeded however additional improvements could be made. No template / format was provided for the safety plan development. Students were encouraged to pull from previous class / internship examples for their use for this. A potential improvement would be to provide samples / guidance more specifically for the safety plan prior to issuing the project. CNST 295-59% met or exceeded. The action plan will be to stress completion of the assignment. The work that was turned in was showed understanding but many students did not turn in all 3 assignments used to measure this skill thus skewing the average below the 70%.	1.3.2-With the class being split between two year due to covid safety planning was lacking. Students worked from plans developed the prior year. Unless unforeseen conditions split a project into two years as covid did we will not have this issue in the future.
Update to Prior Year's Action Plan	Will be implementing the action plans showing specifically how and if specific coursework can create action for implementation in the following academic year.		
Measure 1.3.1	AECT 300 – Design-Build II Project Safety Plan ACCE SLO #3		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Not Meeting: 0%Approaching: 0%Meeting: 33%Exceeding: 67% Meeting & Exceeding: 100% As the senior capstone course our students are performing at a higher level. This is reflected in the % meeting & exceeding.	Number Assessed: 32 Exceeding: 25 % Meeting: 75% Approaching: 0% Not Meeting: 0%	Number Assessed: 34 Exceeding: 0 % Meeting: 53% Approaching: 47% Not Meeting: 0%
Measure 1.3.2	CNST 295 – Design-Build I Project Safety Plan		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 32 Exceeding: 31 % Meeting: 41% Approaching: 28% Not Meeting: 0%	Number Assessed: 23 Exceeding: 0 % Meeting: 59% Approaching: 18% Not Meeting: 23%	Number Assessed: 1 Exceeding: 0 % Meeting: 0% Approaching: 0% Not Meeting: 0%

Goal 2	Students will be able to understand basic construction project controls.		
	2018-19	2019-20	2020-21
Outcome 2.1	SLO #4 – Create construction project estimates.		
Action Plan	Continue to teach concepts coupled with actual estimating using latest software and concepts.	AECT 340 - I do not plan on modifying the assignment as it supports the benchmark. AECT 300 - I do not plan on modifying the assignment as it supports the benchmark.	2.1.1 - Due to COVID and remote learning students did not turn in completed estimates which skewed the data. With the return to in person learning no changes will be made.
Update to Prior Year's Action Plan	New implementation of software being looked into.		
Measure 2.1.1	AECT 340 – Estimating & Planning II Estimate Assignment 1 ACCE SLO #4		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 41 Exceeding: 3 % Meeting: 73% Approaching: 18% Not Meeting: 10%	Number Assessed: 42 Exceeding: 45 % Meeting: 38% Approaching: 5% Not Meeting: 18%	Number Assessed: 31 Exceeding: 41 % Meeting: 38% Approaching: 9% Not Meeting: 9%
Measure 2.1.2	AECT 300 – Design-Build II Estimate Assignment		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 30 Exceeding: 67 % Meeting: 33% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 25 % Meeting: 75% Approaching: 0% Not Meeting: 0%	Number Assessed: 34 Exceeding: 0 % Meeting: 47% Approaching: 53% Not Meeting: 0%
Outcome 2.2	SLO #5 – Create construction project schedules.		
Action Plan	Continue to have schedule creation throughout students coursework and labs.	Scheduling goals met, working out the kinks within software is the main issue. Will continue to look at software and work with CIS making sure we can implement industry standard software.	2.2.1 - Due to COVID students worked independently via a prerecorded lab and teacher was available during office hours for assistance. Results were acceptable - with the return to in person learning no changes will be made.
Update to Prior Year's Action Plan	Many courses implement building of schedules, faculty have met and discussed concepts and software assisting with continuing continuity among the courses.		
Measure 2.2.1	AECT 340 – Estimating & Planning II Schedule Assignment 1 ACCE SLO #5		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 41 Exceeding: 28 % Meeting: 45% Approaching: 13% Not Meeting: 15%	Number Assessed: 42 Exceeding: 36 % Meeting: 31% Approaching: 5% Not Meeting: 29%	Number Assessed: 32 Exceeding: 59 % Meeting: 41% Approaching: 0% Not Meeting: 0%
Measure 2.2.2	AECT 300 – Design-Build II Schedule Assignment		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 30 Exceeding: 33 % Meeting: 67% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 25 % Meeting: 75% Approaching: 0% Not Meeting: 0%	Number Assessed: 34 Exceeding: 0 % Meeting: 85% Approaching: 15% Not Meeting: 0%
Outcome 2.3	SLO #7 – Analyze construction documents for planning and management of construction processes.		

Action Plan	Courses continue to integrate construction documents for planning, continuing the integration of this in DB I&II, Est. & Planning I&II, Project Management, Commercial & RBSI etc. will continue.	Courses continue to integrate construction documents for planning, continuing the integration of this in DB I&II, Est. & Planning I&II, Project Management, Commercial & RBSI etc. will continue.	
Update to Prior Year's Action Plan	Current strategies working well and will continue.		
Measure 2.3.1	AECT 400 – Project Management Logistics Lab		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 42 % Meeting: 50% Approaching: 4% Not Meeting: 4%	Number Assessed: 46 Exceeding: 20 % Meeting: 67% Approaching: 0% Not Meeting: 13%	Number Assessed: 32 Exceeding: 44 % Meeting: 44% Approaching: 6% Not Meeting: 6%
Measure 2.3.2	AECT 400 – Project Management Final Project ACCE SLO #7		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 36 % Meeting: 36% Approaching: 12% Not Meeting: 16%	Number Assessed: 46 Exceeding: 35 % Meeting: 45% Approaching: 18% Not Meeting: 2%	Number Assessed: 32 Exceeding: 41 % Meeting: 31% Approaching: 13% Not Meeting: 15%
Outcome 2.4	SLO #10 - Apply electronic-based technology to manage the construction process.		
Action Plan	Continually meeting with industry, discussions with our current students on internship and faculty practicing in industry has led us to adopt software to bring to the classroom and labs,. We will continue to bring these software in.	Continually meeting with industry, discussions with our current students on internship and faculty practicing in industry has led us to adopt software to bring to the classroom and labs,. We will continue to bring these software in. This year we successfully made connections and brought InEight and Raken into the classroom on top of all others still successfully being implemented.	2.4.2 - COVID impacted students ability to get internships, this will not be an issue in the future.
Update to Prior Year's Action Plan	Current practices working and will keep up with this process, sometimes it is too much with the amounts of software out there, the key is utilizing the correct and most widely used. Also dollars are connected with software cannot be obtained in a reasonable price. New software of InEight & Raken being looked at.		
Measure 2.4.1	AECT 400 – Project Management Software Use Labs ACCE SLO #10		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 40 % Meeting: 36% Approaching: 16% Not Meeting: 8%	Number Assessed: 46 Exceeding: 17 % Meeting: 61% Approaching: 15% Not Meeting: 7%	Number Assessed: 32 Exceeding: 75 % Meeting: 16% Approaching: 9% Not Meeting: 0%
Measure 2.4.2	AECT 390 / 395 – Internship Communication via Procore		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 18 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Number Assessed: 30 Exceeding: 90 % Meeting: 10% Approaching: 0% Not Meeting: 0%	Number Assessed: 16 Exceeding: 100 % Meeting: 0% Approaching: 0% Not Meeting: 0%
Outcome 2.5	SLO #13 - Understand construction risk management.		
Action Plan	Further implementation of Risk will be added to AECT 300	AECT 300 - Students met the benchmark however, students were allowed to utilize templates from previous classes or internships. The variation in documents received indicates that I should present a standard template for use or a few samples that would be appropriate with your clarification prior to issuing the assignment.	

Update to Prior Year's Action Plan	Plans to implement further into AECT 300 are in place		
Measure 2.5.1	AECT 400 – Project Management Risk Lab		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 40 % Meeting: 40% Approaching: 4% Not Meeting: 16%	Number Assessed: 46 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 0 % Meeting: 0% Approaching: 0% Not Meeting: 0%
Measure 2.5.2	AECT 300 – DB II Risk Management Analysis ACCE SLO #13		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 30 Exceeding: 67 % Meeting: 33% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 25 % Meeting: 75% Approaching: 0% Not Meeting: 0%	Number Assessed: 34 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%
Outcome 2.6	2.6.2 - COVID impacted this direct measure which resulted in insufficient work. With students returning to full in person this will not be an issue.		
Action Plan	Continue current implementation		
Update to Prior Year's Action Plan	Continue current implementation	0	0
Measure 2.6.1	AECT 400 – Project Management Cost Control Labs		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 58 % Meeting: 13% Approaching: 0% Not Meeting: 29%	Number Assessed: 46 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 0 % Meeting: 0% Approaching: 0% Not Meeting: 0%
Measure 2.6.2	AECT 340 – Estimating & Planning II Cost Control Plan ACCE SLO #14		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 41 Exceeding: 10 % Meeting: 68% Approaching: 13% Not Meeting: 10%	Number Assessed: 42 Exceeding: 52 % Meeting: 26% Approaching: 2% Not Meeting: 19%	Number Assessed: 25 Exceeding: 44 % Meeting: 31% Approaching: 0% Not Meeting: 3%
Outcome 2.7	SLO #15 - Understand construction quality assurance and control.		
Action Plan	Continue to implement concepts and a lab assignment in QC through utilizing our underclassmen's projects to report on	Successfully had students complete multiple QC reports and gave examples of industry QC's. This will continue.	
Update to Prior Year's Action Plan	Expand into multiple reporting.		
Measure 2.7.1	AECT 400 – Project Management QC Lab/Assignments ACCE SLO #15		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Number Assessed: 46 Exceeding: 22 % Meeting: 65% Approaching: 9% Not Meeting: 4%	Number Assessed: 32 Exceeding: 94 % Meeting: 0% Approaching: 0% Not Meeting: 6%
Measure 2.7.2	AECT 300 – DB II Quality Control Plan		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 30 Exceeding: 63 % Meeting: 30% Approaching: 3% Not Meeting: 3%	Number Assessed: 27 Exceeding: 100 % Meeting: 0% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 0 % Meeting: 76% Approaching: 24% Not Meeting: 0%
Outcome 2.8	SLO #16 - Understand construction project control processes.		
Action Plan	Continue current implementation	AECT 300 - Students met the benchmark, however, in thinking about this further it probably would have been better for me to determine if a section met or did not meet the requirements and say whether their answer was right or wrong. However, as is true of most things, analysis of such documents is subjective. I will look into a way to allow them to express their opinions on the matter but also refine my grading on this assignment.	
Update to Prior Year's Action Plan	Continue current implementation		
Measure 2.8.1	AECT 400 – Project Management Final Project		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 36 % Meeting: 36% Approaching: 12% Not Meeting: 16%	Number Assessed: 46 Exceeding: 35 % Meeting: 45% Approaching: 18% Not Meeting: 2%	Number Assessed: 32 Exceeding: 41 % Meeting: 31% Approaching: 13% Not Meeting: 15%

Measure 2.8.2	AECT 300 – DB II Project Controls Plan ACCE SLO #16		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 30 Exceeding: 33 % Meeting: 67% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 69 % Meeting: 0% Approaching: 0% Not Meeting: 31%	Number Assessed: 34 Exceeding: 0 % Meeting: 76% Approaching: 24% Not Meeting: 0%

Goal 3	Students will be able to understand construction ethics.		
	2018-19	2019-20	2020-21
Outcome 3.1	SLO #6 - Analyze professional decisions based on ethical principles.		
Action Plan	Continual use of AIC's construction Ethics programs was and is still being used throughout courses such as Construction Project Management. Further use and development on this subject will continue.	Continual use of AIC's construction Ethics programs was and is still being used throughout courses such as Construction Project Management. Further use and development on this subject will continue.	3.1.2 - No changes, only not meeting did not complete assignments.
Update to Prior Year's Action Plan	Continue this model, very good discussions and participation.		
Measure 3.1.1	AECT 400 – Project Management Ethics Lab ACCE SLO #6		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 83 % Meeting: 0% Approaching: 0% Not Meeting: 17%	Number Assessed: 46 Exceeding: 70 % Meeting: 30% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 91 % Meeting: 0% Approaching: 0% Not Meeting: 9%
Measure 3.1.2	AECT 380 – Career Seminar Course Material		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results		Number Assessed: 40 Exceeding: 25 % Meeting: 75% Approaching: 0% Not Meeting: 0%	Number Assessed: 31 Exceeding: 81 % Meeting: 13% Approaching: 0% Not Meeting: 6%
Outcome 3.2	SLO #17 - Understand the legal implications of contract, common, and regulatory law to manage a construction project.		
Action Plan	Continue current implementation	CNST 270: With benchmark of 70% achieved (75%), major changes not necessary for improvement.	3.2.1 - Just below the 70% goal at 67% meeting or exceeding. Of the 11 students whom did not meet the standard, 10 did not submit the homework assignment used to assess. Will work to encourage students to complete homework in future.
Update to Prior Year's Action Plan	Continue current implementation		
Measure 3.2.1	CNST 270 – Construction Law & Contracting Assignment		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 53 Exceeding: 6 % Meeting: 58% Approaching: 11% Not Meeting: 25%	Number Assessed: 37 Exceeding: 24 % Meeting: 51% Approaching: 11% Not Meeting: 14%	Number Assessed: 39 Exceeding: 33 % Meeting: 34% Approaching: 5% Not Meeting: 28%
Measure 3.2.2	AECT 400 – Project Management Final Project ACCE SLO #17		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 36 % Meeting: 36% Approaching: 12% Not Meeting: 16%		Number Assessed: 32 Exceeding: 41 % Meeting: 31% Approaching: 13% Not Meeting: 15%
Outcome 3.3	SLO #18 - Understand the basic principles of sustainable construction.		

Action Plan	Continue current implementation through a required core upper level course.	AECT 415: Typically, the final exam is used for this assessment. Due to the college closure, the first exam of the year was the only exam type assessment given this semester. The first exam often has marginal results as students get oriented to course rigor, and is not the best indication of student overall performance. If face-to-face does not resume in the fall, other assessments will be considered. 50% met or exceeded the benchmark. AECT 415 Project: Although this project had to be adjusted to work with the online format, the benchmark of 70% was exceeded.	3.3.1 - COVID an issue, student work ethic lagged this year, no changes. 3.3.2 - no changes
Update to Prior Year's Action Plan	Continue current implementation		
Measure 3.3.1	AECT 415 – Sustainability Test ACCE SLO #18		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 48 Exceeding: 13 % Meeting: 54% Approaching: 25% Not Meeting: 8%	Number Assessed: 24 Exceeding: 8 % Meeting: 42% Approaching: 21% Not Meeting: 29%	Number Assessed: 22 Exceeding: 5 % Meeting: 59% Approaching: 27% Not Meeting: 9%
Measure 3.3.2	AECT 415 – Sustainability Project		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 48 Exceeding: 40 % Meeting: 58% Approaching: 0% Not Meeting: 2%	Number Assessed: 24 Exceeding: 9 % Meeting: 12% Approaching: 3% Not Meeting: 0%	Number Assessed: 23 Exceeding: 39 % Meeting: 39% Approaching: 13% Not Meeting: 9%

Goal 4	Students will understand and demonstrate common construction practices and latest technologies		
	2018-19	2019-20	2020-21
Outcome 4.1	SLO #8 - Analyze methods, materials, and equipment used to construct projects.		
Action Plan	Continue to implement in many courses throughout the class and reiterate in hands on labs.	AECT 370- The students showed the ability to takeoff plans and apply costs to estimate construction costs. The students also showed the ability to use manufacturer equipment data to plan construction operations within said equipment limits.	4.1.1-No changes. 4.1.2-Introduce new structure to estimatimating lab focusing on the mechanics of BlueBeam
Update to Prior Year's Action Plan	Continue current implementation		
Measure 4.1.1	AECT 370 – Site Engineering Crane Assignment ACCE SLO #8		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Cordaro FA 18: Not Meeting 2% Approaching 0% Meeting 31% Exceeding 67% 97% Meeting or Exceeding Cordaro SP 19: Not Meeting 0 Approaching 0 Meeting 30% Exceeding 70% 100% Meeting or Exceeding	Number Assessed: 13 Exceeding: 62 % Meeting: 30% Approaching: 0% Not Meeting: 8%	Number Assessed: 21 Exceeding: 81 % Meeting: 14% Approaching: 5% Not Meeting: 0%
Measure 4.1.2	AECT 370 – Site Engineering Site Estimate ACCE SLO #8		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Cordaro FA18: Not Meeting 11% Approaching 6% Meeting 44% Exceeding 39% 83% Meeting or Exceeding. Cordaro SP19: Not Meeting 0% Approaching 40% Meeting 60% Exceeding 0% 60% Meeting or Exceeding.	Number Assessed: 13 Exceeding: 23 % Meeting: 46% Approaching: 15% Not Meeting: 16%	Number Assessed: 21 Exceeding: 14 % Meeting: 53% Approaching: 29% Not Meeting: 4%
Outcome 4.2	SLO #9 - Apply construction management skills as a member of a multidisciplinary team.		
Action Plan	Reiterate the team approach through all courses, specifically AECT 300	AECT 300 - The students met the benchmark. I would say the flaw in this data is that the students were potentially overly generous in grading their friends in the group or found it easier to give good marks instead of looking at potential improvements in their peers. I will continue to look into different peer grading formats to encourage reflective analysis. AECT 415: 88% met benchmark, no changes.	4.2.1 - No changes.
Update to Prior Year's Action Plan	Continue current implementation		
Measure 4.2.1	AECT 415 – Sustainability Group Project ACCE SLO #9		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 48 Exceeding: 40 % Meeting: 58% Approaching: 0% Not Meeting: 2%	Number Assessed: 24 Exceeding: 9 % Meeting: 12% Approaching: 3% Not Meeting: 0%	Number Assessed: 23 Exceeding: 48 % Meeting: 35% Approaching: 17% Not Meeting: 0%
Measure 4.2.2	AECT 300 – DB II Project ACCE SLO #9		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 30 Exceeding: 67 % Meeting: 33% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 72 % Meeting: 28% Approaching: 0% Not Meeting: 0%	Number Assessed: 34 Exceeding: 35 % Meeting: 50% Approaching: 15% Not Meeting: 0%
Outcome 4.3	SLO #11 - Apply basic surveying techniques for construction layout and control.		

Action Plan	Continue current implementation through a required core course.	AECT 370- The students surveyed an area of campus using total stations and then were able to make engineering drawings with that data.	4.3.1-No Change.
Update to Prior Year's Action Plan	Continue current implementation		
Measure 4.3.1	AECT 370 – Site Survey		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 48 Exceeding: 40 % Meeting: 58% Approaching: 0% Not Meeting: 2%	Number Assessed: 24 Exceeding: 9 % Meeting: 12% Approaching: 3% Not Meeting: 0%	Number Assessed: 23 Exceeding: 48 % Meeting: 35% Approaching: 17% Not Meeting: 0%
Measure 4.3.2	CNST 160 – Surveying Assignment ACCE SLO #11		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 33 Exceeding: 3 % Meeting: 42% Approaching: 45% Not Meeting: 9%		Number Assessed: 32 Exceeding: 44 % Meeting: 43% Approaching: 0% Not Meeting: 13%
Outcome 4.4	SLO #12 - Understand different methods of project delivery & the roles and responsibilities of all constituencies involved in the design & construction process.		
Action Plan	Continue instruction in multiple courses on this subject will continue. Specifically in Law & Contracting and Construction Project Management.	Continue instruction in multiple courses on this subject will continue. Specifically in Law & Contracting and Construction Project Management.	
Update to Prior Year's Action Plan	Continue current implementation		
Measure 4.4.1	AECT 400 – Project Management Quizzes & Exam I ACCE SLO #12		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 24 Exceeding: 16 % Meeting: 76% Approaching: 0% Not Meeting: 4%		Number Assessed: 32 Exceeding: 38 % Meeting: 56% Approaching: 6% Not Meeting: 0%
Measure 4.4.2	AECT 400 – Project Management Delivery Method Lab		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Need to re-evaluate this item and how it needs to be assessed, the current item is not appropriate or applicable.	Number Assessed: 46 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Number Assessed: 32 Exceeding: 0 % Meeting: 91% Approaching: 9% Not Meeting: 0%
Outcome 4.5	SLO #19 - Understand the basic principles of structural behavior.		
Action Plan	Continue to teach concepts through a dedicated course structural theory.	Continue to teach concepts through a dedicated course structural theory.	no change, return to full in person class for basis of assessment

Update to Prior Year's Action Plan	Continue current implementation		
Measure 4.5.1	AECT 360 – Structural Theory Assignment ACCE SLO #19		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 7 Exceeding: 14 % Meeting: 42% Approaching: 42% Not Meeting: 0%		Number Assessed: 8 Exceeding: 50 % Meeting: 50% Approaching: 0% Not Meeting: 0%
Measure 4.5.2	AECT 360 – Structural Theory Test		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 7 Exceeding: 0 % Meeting: 42% Approaching: 14% Not Meeting: 42%		Number Assessed: 8 Exceeding: 25 % Meeting: 25% Approaching: 0% Not Meeting: 50%
Outcome 4.6	4.6.1 - No Change		
Action Plan	Continue current implementation		
Update to Prior Year's Action Plan	Continue current implementation	0	0
Measure 4.6.1	AECT 280 – Mechanical, Electrical and Plumbing Systems exams ACCE SLO #20		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 39 Exceeding: 13 % Meeting: 56% Approaching: 26% Not Meeting: 5%	Number Assessed: 33 Exceeding: 6 % Meeting: 73% Approaching: 12% Not Meeting: 9%	Number Assessed: 39 Exceeding: 5 % Meeting: 77% Approaching: 13% Not Meeting: 5%
Measure 4.6.2	AECT 280 – Mechanical, Electrical and Plumbing Systems Labs		
Benchmark Indirect/Direct	Benchmark: 70% Meeting or Exceeding	Direct/Indirect: Direct	
Assessment Results	Number Assessed: 39 Exceeding: 56 % Meeting: 41% Approaching: 0% Not Meeting: 3%	Number Assessed: 33 Exceeding: 24 % Meeting: 55% Approaching: 21% Not Meeting: 0%	Number Assessed: 39 Exceeding: 26 % Meeting: 54% Approaching: 10% Not Meeting: 10%

Goal 5	Successfully obtain 4yr ACCE Accreditation		
	2018-19	2019-20	2020-21
Outcome 5.1	Prepare and develop 4yr assessment SLO's using ACCE Standards		
Action Plan	Continuing and preparing for visit.	Continuing and preparing for visit.	
Update to Prior Year's Action Plan	Continuing and preparing for visit.		
Measure 5.1.1	Complete Construction Management BT Assessment Pan		
Benchmark Indirect/Direct	Benchmark: Submission of Master Plan	Direct/Indirect: Direct	
Assessment Results	Completed & Submitted	Complete and revised for 2019/2020	Complete
Measure 5.1.2	Begin Assessment of ACCE SLO's		
Benchmark Indirect/Direct	Benchmark: Complete yearly assessment	Direct/Indirect: Direct	
Assessment Results	Results and data tabulated and entered.	Began and continuing.	Working on in preparation for visitation
Outcome 5.2	Obtain 4 year bachelors ACCE accreditation for BT degree		
Action Plan			
Update to Prior Year's Action Plan			
Measure 5.2.1	Prepare for ACCE visit		
Benchmark Indirect/Direct	Benchmark: All necessary documents compiled	Direct/Indirect: Direct	
Assessment Results	Year 3	Scheduled for Spring 2021	Continue to work on.
Measure 5.2.2	ACCE visit scheduled and complete		
Benchmark Indirect/Direct	Benchmark: Successfully accomplish 4 year accreditation	Direct/Indirect: Direct	
Assessment Results	Year 3		Scheduled Fall 21

Goal 6	Continue faculty engagement in professional development in construction industry related activities		
	2018-19	2019-20	2020-21
Outcome 6.1	Faculty participation in industry conferences, workshops presentations.		
Action Plan		Faculty & staff continue to participate in industry conferences & workshops such as Associated Schools of Construction, trade shows etc. COVID-19 place a damper on many events due to cancellations.	
Update to Prior Year's Action Plan			
Measure 6.1.1	CT/CM faculty to participate in (1) or more industry conferences, workshops and/or presentations		
Benchmark Indirect/Direct	Benchmark: 100% Faculty Participation	Direct/Indirect: Direct	
Assessment Results	Year 2	Some attended many were scheduled in Spring and cancelled due to COVID-19	Postponed due to COVID, looking into potential virtual sessions offered.
Measure 6.1.2	CT/CM faculty to present to colleagues their experience at industry event		
Benchmark Indirect/Direct	Benchmark: 100% Participation by faculty	Direct/Indirect: Direct	
Assessment Results	Year 2	Some attended many were scheduled in Spring and cancelled due to COVID-19	Postponed due to COVID, looking into potential virtual sessions offered.
Outcome 6.2	Faculty will obtain industry related certifications.		
Action Plan			
Update to Prior Year's Action Plan			
Measure 6.2.1	CT/CM faculty to participate in (1) or more industry certifications and/or renewals		
Benchmark Indirect/Direct	Benchmark: 100% Participation by faculty	Direct/Indirect: Direct	
Assessment Results	Year 3	OSHA 500 completed by Faculty Member Blaze Cordaro	Postponed due to COVID, looking into potential virtual sessions offered.
Measure 6.2.2	CT/CM faculty to present to colleagues their certification experience		
Benchmark Indirect/Direct	Benchmark: 100% Participation by faculty	Direct/Indirect: Direct	
Assessment Results	Year 3	OSHA 500 completed by Faculty Member Blaze Cordaro	Postponed due to COVID, looking into potential virtual sessions offered.

Goal 7	Upon graduation, students will be prepared for a professional construction based career.		
	2018-19	2019-20	2020-21
Outcome 7.1	Students will successfully graduate and obtain jobs in the construction industry		
Action Plan			
Update to Prior Year's Action Plan			
Measure 7.1.1	Graduation Rates		
Benchmark Indirect/Direct	Benchmark: 80% graduation rate	Direct/Indirect: Direct	
Assessment Results	Year 3	Only (3) students graduation delayed or not occurring.	Will calculate after May 21
Measure 7.1.2	Job placement. ACCE exit surveys		
Benchmark Indirect/Direct	Benchmark: 100% student graduates employed in construction careers	Direct/Indirect: Direct	
Assessment Results	Year 3	In-Progress	Will calculate after May 21

Goal 8	Continually grow industry connections for student internships, fulltime employment and fundraising opportunities.		
	2018-19	2019-20	2020-21
Outcome 8.1	Maintain & grow industry connections for guest presentations & student employment		
Action Plan		Many guest presenters came to campus and also for employment purposes, COVID -19 cancelled many planned visitations. Plans to re-visit this when normalcy of campus procedures for guests etc. occurs.	
Update to Prior Year's Action Plan			
Measure 8.1.1	Develop internship/fulltime company employment database		
Benchmark Indirect/Direct	Benchmark: Database operational 2020	Direct/Indirect: Direct	
Assessment Results	Year 2	Continued to be worked on.	Database operational and being updated as graduates/internships land positions.
Measure 8.1.2	CT/CM Faculty to continue and create new connections with industry		
Benchmark Indirect/Direct	Benchmark: Participation by faculty	Direct/Indirect: Direct	
Assessment Results	Year 2	Connections made and continue to be made from all parties.	Many new connections made, Excel database with multiple programatic information being developed in order to include these connections.
Outcome 8.2	Faculty and staff to continue and develop ways of programmatic fundraising		
Action Plan	Continue to implement fundraising golf tournament & reaching out to suppliers for material donations		
Update to Prior Year's Action Plan	Continue current implementation		
Measure 8.2.1	Continue and expand annual fundraising golf tournament		
Benchmark Indirect/Direct	Benchmark: Host annual fundraising golf tournament	Direct/Indirect: Direct	
Assessment Results	Tournament completed and successful.	Golf tournament held in Fall 2019 and successfully raised 10k +/-	Postponed due to COVID, tentativley scheduled for Spring 21
Measure 8.2.2	CT/CM faculty to continue reaching out to suppliers/construction firms for material/laboratory equipment/sample and monetary donations		
Benchmark Indirect/Direct	Benchmark: Participation by faculty	Direct/Indirect: Direct	
Assessment Results	Some material donated.	Successfully landed over 10k+/- donation in tools from DeWalt.	Posproned due to COVID, tentativley scheduled for Spring 21

Goal 9	Modernize facilities, laboratory & course equipment and safety standards to industry standard and beyond.		
	2018-19	2019-20	2020-21
Outcome 9.1	Faculty and staff will engage in planning and prioritizing facility and educational equipment to industry standard and beyond		
Action Plan	Through the new budget & planning process this has been integrated into our process through inventory, assessment of equipment & replacement schedules	Through the new budget & planning process this has been integrated into our process through inventory, assessment of equipment & replacement schedules	
Update to Prior Year's Action Plan	Continue to update b&p documents.		
Measure 9.1.1	Develop facility & equipment prioritization for integration in program curriculums		
Benchmark Indirect/Direct	Benchmark: Integration of prioritization in programmatic budget & planning	Direct/Indirect: Direct	
Assessment Results	Created in new Budget & Planning Process	Completed with budget packet.	Priortizing along with Budget for submission Spring 21
Measure 9.1.2	Develop software prioritization for integration in program curriculum's		
Benchmark Indirect/Direct	Benchmark: Integration of prioritization in programmatic budget & planning and with CIS	Direct/Indirect: Direct	
Assessment Results	Created in Budget & Planning Process	Completed with budget packet. New software(s) obtained and worked with CIS on install.	All software curretnly in place, will continue to expand if industry drives a new change.

Engage students and faculty in civic, volunteer project based and extracurricular construction activities.		
Continually working with greek life and through our AGC student chapter.	Continually working with greek life and through our AFC student chapter, will continue when such activities are allowed with COVID-19 restrictions.	
Continue.		
Benchmark: Classroom engagement in community construction based activities/number of projects	Direct/Indirect: Direct	
Operational: Met. Worked on the following.-Catskill Mountain Club Trail Kiosks (3)-Suputo Gazebo-SUNY Delhi Entrance Sign(s)-The College Golf Course Bridge Abutment Project- Habitat for Humanity	Number Assessed: 55 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Tiny Homes for Otsego County worked on Fall 2020 and will continue into Spring 21 along with campus main entrance project(s).
Benchmark: Community Service Hour tabulation in such activities	Direct/Indirect: Direct	
Community Service Projects Completed-Catskill Mountain Club Trail Kiosks-Habitat for HumanityHours Tabulated: Not Taken	Number Assessed: 55 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	Tiny Homes for Otsego County worked on Fall 2020 and will continue into Spring 21 along with campus main entrance project(s).
(3) teams of (6) students participated in the Fall 2018 ASC Region 1 student construction management competition held in November in Albany NY. All students prepared and completed the competition with no teams placing. Plan to continue to teach course tied to competition and field (2 or more) teams again in Fall 2019.	(2) teams of (6) students participated in the Fall 2019 ASC Region 1 student construction management competition held in November in Albany NY. All students prepared and completed the competition with the Pre-Construction team placing 2nd. Plan to continue to teach course tied to competition and field (2) teams again in Fall 2020.	
Implement full course, approved in Curriculum Committee.		
Benchmark: Participation of (1) or more teams in an organized student competition	Direct/Indirect: Direct	
(3) Teams participated in the Associated Schools of Construction , Construction Management competition in (3) different categories.-Heavy Civil-Design-Build-Pre-Construction	Number Assessed: 12 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	1 team competed Fall 2020 in a digital formatted competition, Heavy Civil category. SUNY Delhi placed 3rd.
Benchmark: Completion and participation in competition	Direct/Indirect: Direct	
All students (18) who were signed up for the competition course did participate with full dedication.	Number Assessed: 12 Exceeding: 0 % Meeting: 100% Approaching: 0% Not Meeting: 0%	6 students participated and did very well in competition.