Fall 2020 Senior Exit Survey Report n = 80

SUMMARY OF STUDENT RESPONSES

- 95% would major in Construction Science again (Table 4)
- 80% entered the Construction Science Department as either a Transfer Student or a Change of Major (Table 2)

How Students Entered the COSC Program										
Change of Major, 30.0%				Transfer, 50.0%					Freshman, 20.0%	
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100

- 78% rated the academic advising support received as above average (Table 11)
- 88% rated the **career guidance** received as above average (Table 11)
- 99% rated career fair support as above average (Table 11)
- 86% rated internship as above average (<u>Table 11</u>)
- 13% rated **study abroad experience** as above average (Table 11)
- 96% rated overall education at Texas A&M University as above average (Table 11)



- 100% rated preparation to apply ethical principles as above average (Table 40)
- 91% rated level of social competence as above average (Table 40)
- 99% rated **preparation for life-long learning** as above average (Table 40)
- 94% rated **preparation to apply critical thinking skills** as above average (<u>Table 40</u>)
- 96% rated overall Construction Science competence as above average (<u>Table 40</u>)
- 86% rated level of cultural competence as above average (Table 40)
- 75% rated level of global competence as above average (Table 40)





Student Employment Data

- 71% Have a job upon graduation (Table 14)
- 70% Have less than 1 year of job experience (<u>Table 15</u>)
- 86% plan to enter construction-related employment upon graduation (Table 16)
- 65% received a job offer from their internship provider (Table 17)
- 40% accepted a job offer from their internship provider (<u>Table 18</u>)
- 83% of students had at LEAST one job interview (<u>Table 20</u>)
 11% did not seek an interview
- 65% of students had at LEAST one follow-up job interview (Table 21)
- 88% of students had at LEAST one job offer (Table 22)



	Number of Job Offers Students Received									
	40.000								<u></u>	
	18.8%			41.3%			22.5%		6.3% 6.3%	3.8%
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	1

- Top 3 sectors in which students will be employed (Table 23)
 - o 61% Commercial
 - 0 6% Residential Single Family
 - o 4% Heavy Civil/Highway
 - o 4% Industrial
- Top 3 major Texas cities in which students will work upon graduation (Table 25)
 - o 24% Austin
 - o 21% Houston
 - o 19% Dallas/Fort Worth
- Top 3 job titles students will hold upon graduation (Table 30)
 - o 25% Project Engineer
 - o 10% Assistant Project Manager
 - o 10% Assistant Superintendent



- Starting salaries ranged from \$0 \$80,000 (Table 31)
- Hiring bonuses ranged from \$0 \$12,000 (Table 32)
- The positions *Estimator 1* and *Project Manager* (n = 1) had the highest averages and modes (\$70,000) (Table 33)
- The position titles with the lowest **MODE** (\$43,500) and **AVERAGE** (\$43,500) starting salary was *Junior Project Manager* (*n* = 2) (Table 33)

Students' Perception of the Primary Strength of the COSC Program (Table 12)

- Faculty: (n=46)
 - Very knowledgeable
 - Real-world experience
 - Care about students/very supportive
 - o Relationships built
- Prepares students to enter construction industry (*n*=19)
- The Network/CIAC/industry connections (*n*=16)
- Internship program (*n*=14)
- Job placement upon graduation (*n*=13)
- Career Fair (*n*=8)

Students' Perception of the Primary Weakness of the COSC Program (Table 13)

- Curriculum: (*n*=56)
 - Irrelevant/filler courses
 - Out of date course content
 - Lack of emphasis on other sectors
 - Superintendent
 - Land development
 - Residential
 - Sub-contracting
 - Project Management course needs to be restructured
 - More real-world applications
 - Some courses should be electives
 - Structures
 - Surveying
 - Senior year courses should focus on construction courses not marketing and finance
 - o Internship should be divided into 2 summer internships
 - Lack of hands-on labs
 - o Management and finance classes should be construction-related
 - Offer online options for late-evening courses
 - High professor turn-over in courses
 - o Too many professors straight from industry who do not know how to teach
 - \circ Need to teach for mastery not just to cover content
 - Need ability to take courses when on internship
 - Upper-level semesters overloaded need better balance in course content loads by degree-plan semester
- Some Professors: (*n*=16)
 - o Biased/favoritism
 - Too engineering-based
 - They use only one teaching method/approach
 - Do not have a teaching mindset
 - o Do not understand difference between "teaching" and simply "covering material"
 - No real-world experience
 - o Teaching outside knowledge base/speciality
 - Do not approve of new technology
 - Too much professor turnover in a course
 - o Not enough research-based faculty
 - Lack of diversity in ideas/outlook
 - Do not care about student success
- Advising (*n*=2)
 - o Difficulty getting an appointment

- Students with little to no construction background (*n*=2)
- Program growing too fast (*n*=2)
 - Poor student to professor ratio
- Creation of teams for group projects (*n*=1)

Students' Perception of Francis Hall

Students Liked: (Table 45)

- Exposed infrastructure/learning laboratory aspect (*n*=34)
- Encourages networking/knowing peers and faculty/relationship building (*n*=23)
- Camaraderie/welcoming atmosphere/feels like a home (*n*=18)
- The building's design and aesthetics (n=17)
- Technology and resources available to students (*n*=15)
- The classrooms and study areas (*n*=15)
- New and clean (n=7)
- Most classes are in the building (*n*=3)
- Location (*n*=2)
- Nice restrooms (*n*=1)
- Vending machines (*n*=1)

Students Felt Could Be Improved: (<u>Table 46</u>)

- More study spaces/rooms/collaboration areas (n = 30)
 - Areas to congregate/meet
 - Larger student lounge
 - Tear down classroom wall on second floor across from lounge and convert to open seating
- Nothing (n=22)
- More Printers (*n*=8)
 - \circ That work and are maintained
 - Sufficient quality for assignment needs
- Air-conditioning/HVAC system (*n*=4)
 - Segner Auditorium
- More computers and monitors available to students (*n*=4)
- Expand Francis Hall/more space (*n*=3)
 - Classrooms more spacious
 - More faculty offices decreased ability of students to discuss sensitive issues with second professor in the office
- Larger seats and desktops in Segner Hall (*n*=3)
- More outlets especially at desks/seats (*n*=2)
- Francis Hall more accessible after hours and on weekends (*n*=2)
- Better tables in common areas (*n*=1)
- Need a place to grab lunch (in building café) (*n*=1)
- Staplers available to students (*n*=1)
- Update card readers (*n*=1)
- First floor gets loud and distracting (*n*=1)
- Better smelling hand sanitizers (*n*=1)

Student Learning Outcomes

- Students' confidence in their ability to apply the Student Learning Outcomes (SLOs) (Table 36)
 - (Frequency counts for individual SLOs may be found in <u>Table 38</u>)
 - Students indicated they were "Very Confident" in their ability to:
 - 1. "Analyze professional decisions based upon ethical principles"
 - 2. "Apply construction management skills as a member of a multidisciplinary team"
 - Students' indicated they were "**Confident**" in their ability to apply the remaining 18 SLOs
- Students' perception of the importance of the Student Learning Outcomes (SLOs) in their future careers (Table 37)
 - (Frequency counts for individual SLOs may be found in <u>Table 39</u>)
 - **16 of the 20** SLOs students indicated would be **"Very Important"** in their future careers
 - The top three SLOs student perceived as "Very Important"
 - 1. "Create oral communications appropriate to the construction Industry"
 - 2. "Analyze construction documents for planning and management of construction processes"
 - 3. "Create written communications appropriate to the construction discipline"
 - The remaining 4 SLOs were perceived as being only "Important" to students' future careers

Students' Perception of COSC Courses

- Students' "Most Challenging" COSC Classes (Table 41)
 - \circ 1st Choice
 - Top Three Classes
 - 1. 61% COSC 375: Estimating II
 - 2. 8% COSC 301: Surveying
 - 3. 8% COSC 353: Project Management
 - \circ 2nd Choice
 - Top Three Classes
 - 1. 21% COSC 475: Construction Scheduling
 - 2. 18% COSC 301: Surveying
 - 3. 13% COSC 353: Project Management

- o 1st Choice
 - Top Three Classes
 - 1. 26% COSC 364: Safety I
 - 2. 24% COSC 381: Ethics in Construction Industry
 - 3. 21% COSC 175: Construction Graphics
- \circ 2nd Choice
 - Top Three Classes
 - 1. 30% COSC 364: Safety I
 - 2. 19% COSC 381: Ethics in Construction Industry
 - 3. 15% COSC 253: Methods and Materials I

• Students' "Most Enjoyable" COSC Classes (Table 43)

- \circ 1st Choice
 - Top Three Classes
 - 1. 17% COSC 375: Estimating II
 - 2. 15% COSC 477: Project Controls
 - 3. 15% COSC 494: Internship
- \circ 2nd Choice
 - Top Three Classes
 - 1. 18% COSC 477: Project Controls
 - 2. 14% COSC 375: Estimating II
 - 3. 11% COSC 325: Environmental Controls I

• Students' "Least Enjoyable" COSC Classes (Table 44)

- \circ 1st Choice
 - Top Three Classes
 - 1. 31% COSC 353: Project Management
 - 2. 16% COSC 301: Surveying
 - 3. 11% COSC 321: Structures I
- \circ 2nd Choice
 - Top Two Classes
 - 1. 16% COSC 353: Project Management
 - 2. 15% COSC 301: Surveying
 - 3. 15% COSC 321: Structures I

[•] Students' "Least Challenging" COSC Classes (Table 42)

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Table 1. Fall 2020: Capstone Course in which
Respondents are Enrolled

<i>n= 80</i>						
Response	f^a	%				
Commercial	42	52.5				
Interdisciplinary	22	24.5				
Residential	16	20.0				
Specialty						
Industrial						
No Response						
Note: ^a Frequencies may not total stated <i>n</i> because of						
missing data.						

Table 2. Fall 2020: How Students ReportedEntering the COSC Department

<i>n= 80</i>						
Response	f^a	%				
Transfer	40	50.0				
Change of Major	24	30.0				
Freshman	16	20.0				
No Response						
Note: ^a Frequencies may not total stated <i>n</i> because of						
missing data.						

Table 3. Fall 2020: Student Responses to the Question "If you were a Change of Major,from what department did you transfer?"					
<i>n= 80</i>					
Response	f^a	%			
Ag Leadership	1	1.3			
Agricultural Engineering	1	1.3			
Animal Science	1	1.3			
Architectural Engineering	1	1.3			
Blinn TEAM	2	2.5			
Department of Engineering	1	1.3			
Economics Major, College of Liberal Arts	1	1.3			
Engineering	2	2.5			
General Engineering	2	2.5			
General Engineering then General Studies then COSC.	1	1.3			
Geology	1	1.3			
I transferred from Environmental Design in the school of Architecture.	1	1.3			
I transferred to TAMU from Blinn and I got into the USAR degree. From there I changed my major to Construction Science.	1	1.3			
I was originally Blinn Team pursuing engineering.	1	1.3			
Liberal Arts - History	1	1.3			
Recreation, Parks, and Tourism Science	1	1.3			
Texas A&M Galveston	1	1.3			
University Studies (Architecture)	1	1.3			
urban and regional planning	1	1.3			

Table 3. Fall 2020: Student Responses to the Question "If you were a Change of Major, from what department did you transfer?"						
<i>n</i> = 80						
Response	f^a	%				
USAR	1	1.3				
Veterinary Medicine & Biomedical Sciences	1	1.3				
No Response	56	70.0				
Note: ^a Frequencies may not total stated <i>n</i> because of missing data.						

Table 4. Fall 2020: Students' Responses to the Question: "Would You Major in Construction Science Again?"								
n=80								
Response	f^a	%						
Yes	76	95.0						
No	1	1.3						
Uncertain	3	3.8						
No Response								
Note: ^a Frequencies may not total stated n because of missing data.								

Table 5. Fall 2020:	Student Comments as to Wh	y They Would Not Major
in COSC A	Again	

n = 80					
Response	f^a	%			
I would not major in Construction Science again because I am a man of many interests and I would love to learn about something else.	1	1.3			
No Response	79	98.8			
Note: ^a Frequencies may not total stated <i>n</i> because of missing data.					

Table 6. Fall 2020: Students' Responses to the Question: "Did You Apply for Scholarships at Texas A&M University?"							
n= 80							
Response	f^a	%					
Yes	45	56.3					
No	35	43.8					
No Response							
Note: ^a Frequencies may not total stat data.	ted <i>n</i> be	ecause of missing					

Table 7. Fall 2020: Student Comments as to Why They Did Not Apply for Scholarships at Texas A&M University				
<i>n= 80</i>	Û	0/		
Kesponse	J^{u}	% 0		
Army	1	1.3		
Complications with FAFSA	1	1.3		
Did not have any options	1	1.3		
Did not need.	1	1.3		
Did not think I would be awarded any of them	1	1.3		
Did not want to write essays.	1	1.3		
I already had my tuition paid for by the Texas Tomorrow Fund.	1	1.3		
I always had them offered but never took the time to fill them out/complete them.	1	1.3		
I am not exactly sure why I did not attempt to seek scholarships at TAMU. I think it was because I has livestock money saved for my college and was busy transferring and completing homework.	1	1.3		
I came into A&M with many scholarships.	1	1.3		
I did not apply for scholarships at Texas A&M because I already had a scholarship that took care of my tuition and living expenses.	1	1.3		
I did not need the financial assistance.	1	1.3		
I didn't have enough time to go through the entire scholarship process and my parents' paid for 100% of my tuition.	1	1.3		
I had enough money saved up.	1	1.3		
I had other various scholarships that covered most if not all cost for most semesters.	1	1.3		
I had the privilege of having Texas tomorrow fund.	1	1.3		
I never really knew how or looked into it	1	1.3		

I received an athletic scholarship	1	1.3
I should have, but I just never put in the time to do it. I did receive a scholarship from TEXO and the Knights Templar.	1	1.3
I was blessed and fortunate enough to have a college fund that paid for my tuition in full.	1	1.3
I'm not sure.	1	1.3
Lack of research	1	1.3
Looking back, I should have. I will recommend to all current and future students that they should take advantage of the opportunity.	1	1.3
My financial situation is good and I never participated in extra curricular activities or community service. Therefore, I figured that I wouldn't receive any scholarships.	1	1.3
My parents had already set aside enough college fund money for me to attend college.	1	1.3
My parents made too much money for me to qualify.	1	1.3
my parents were able to afford my college, i wanted other students who were not as fortunate to be able to use it	1	1.3
My school was completely paid for by my parent and a Chickasaw nation scholarship	1	1.3
never got around to it. Lack of time on my part.	1	1.3
No reason, I just never did	1	1.3
Not good at writing essays	1	1.3
Not necessary	1	1.3
Procrastinated too much unfortunately.	1	1.3
Student athlete	1	1.3
No Response	46	57.5
Note: ^a Frequencies may not total stated <i>n</i> because of missing data.		

Table 8. Fall 2020: Students' Responses to the
Question: "Did You Receive a COSC
Departmental Scholarship?"

<i>n= 80</i>						
Response	f^a	%				
No	61	76.3				
Yes	19	23.8				
No Response						
Note: ^a Frequencies may not total stat	ted <i>n</i> be	ecause of missing				
data.						

Table 9. Fall 2020: Students' Involvement in Student Organizations

n= 80										
Student Organizations	Member		Served as Officer		Attended Meetings as Non- Member		No Involvement		No Answer	
	f^a	%	f^a	%	f^a	%	f^a	%	f^a	%
Aggie Women in Construction (AWIC)	1	1.3			2	2.5	61	76.3	16	20.0
Associated Builders and Contractors (ABC)	10	12.5	2	2.5	14	17.5	46	57.5	8	10.0
Associated General Contractors (AGC)	34	42.5		-	10	12.5	32	40.0	4	5.0
Construction Managers Association of America (CMAA)	1	1.3		-	4	5.0	60	75.0	15	18.8
National Association of Home Builders (NAHB)	1	1.3		-	7	8.8	57	71.3	15	18.8
Sigma Lambda Chi (SLC)	2	2.5					62	77.5	16	20.0

Note: ^aFrequencies may not total stated n because of missing data.

Table 10. Fall 2020: Student Comments: Other Student Organizations in WhichStudents Reported Participating					
n= 80					
Response	f^a	%			
A&M Target Archery Club	1	1.3			
AGAPE (Student led Christian organization.)	1	1.3			
Beta Theta Pi Build The Big Event STUMO	1	1.3			
BUILD	2	2.5			
BUILD Superintendent	1	1.3			
BUILD, Big Event, TAMU Obstacle Course Racing, Intramural Sports	1	1.3			
Capital Men's Society, Fish Camp, The Big Event, BUILD	1	1.3			
CCL	1	1.3			
Christian Construction Leaders	1	1.3			
Christian Construction Leaders - Officer	1	1.3			
Christian Construction Leaders (CCL), but I had a class during meeting times this semester.	1	1.3			
Corps of Cadets	1	1.3			
Corps of Cadets Army ROTC	1	1.3			
Corps of Cadets, Fish Drill Team, Ross Volunteers, AMBC, WBAC	1	1.3			
Corps of Cadets, Parsons Mounted Cavalry, Half Section, Student Bonfire	1	1.3			
Delta Tau Delta Fraternity	1	1.3			
First Baptist College Station College Ministry Pro-Life Aggies	1	1.3			
Football	1	1.3			
I was a part of Christian Construction Leaders for a semester.	1	1.3			
Lambda Chi Alpha Fraternity, Brotherhood of Aggie Mentors, Project	1	1.3			

Table 10. Fall 2020: Student Comments: Other Student Organizations in Which Students Reported Participating					
n= 80					
Response	f^{a}	%			
Sunshine,					
MECA	2	2.5			
N/A	2	2.5			
Rowing Team	1	1.3			
Sigma Chi	1	1.3			
Singing Cadets, Sigma Alpha Mu fraternity	1	1.3			
Student Athlete	1	1.3			
Student Bonfire	1	1.3			
Student Government Association Aggieland Humane Society	1	1.3			
TAMU BUILD	1	1.3			
TAMU CCA, TAMU Texas Trophy Hunters	1	1.3			
TAMU Ducks Unlimited	1	1.3			
Texas A&M chapter or Coastal Conservation Association. Student Bonfire.	1	1.3			
Track & Field NAACP SAAC	1	1.3			
Zeta Tau Alpha	1	1.3			
No Response	43	53.8			
Note: ^a Frequencies may not total stated n because of missing data.					

Table 11. Fall 2020: Students' Perception of Their Experiences in the Texas A&M COSC Program

<i>n= 80</i>												
Reflecting on your experiences in the Texas A&M COSC program, please rate:	Excellent		Good		Average		Fair		Poor		No Response	
	f^a	%	f^a	%	f^a	%	f^a	%	f^a	%	f^a	%
The academic advising support you received.	34	42.5	28	35.0	10	12.5	5	6.3	3	3.8		
The career guidance you received.	44	55.0	26	32.5	8	7.5	3	3.8	1	1.3		
The career fair support.	58	72.5	21	26.3	1	1.3						
Your internship experience.	55	68.8	14	17.5	8	10.0	2	2.5	1	1.3		
Your study abroad experience.	9	11.3	1	1.3							70	87.5
Your overall education at Texas A&M University	44	55.0	33	41.3	1	1.3	2	2.5				
Note: ^a Frequencies may not total stated <i>n</i> because of missing data.												

Table 12. Fall 2020: Student Responses to the Question: "What Do You Believe is the
Primary Strength of the COSC Program?"

Student Response	Comment
1.	A strength is that the classes that are in the curriculum are valid and the required internship is a adequate way of introducing us to the construction industry.
2.	As far as exposure to knowledge of the industry, I felt that the COSC program was an excellent source to learn from. The amount of information can be overwhelming at times but resurfaces in our internships.
3.	Experienced professors
4.	Extremely quality staffing of professors who have immense knowledge of the industry and go the extra mile to share it with students.
5.	Faculty and Industry involvement. Internship program.
6.	Focused on getting me a job from day one.
7.	For us students to receive a great career position in the construction industry.
8.	Giving students an overall outlook of the construction industry and management process. Strong classes include: MEP Systems I with Houston, Methods and Materials I with Simms, Structures I with Choi, Structures II with Dudley, Estimating II with Boldt, Project Controls with Fickel, and Residential Capstone with Birdwell.
9.	Guidance due to professors being in the industry for years
10.	HAVING PROFESSORS WITH INDUSTRY EXPERIENCE
11.	How most of the professors have had real world experience.
12.	How much the professors in the COSC program truly care about our success in the future.

Table 12	. Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Strength of the COSC Program?"
Student Response	Comment
13.	I am sure everyone is saying internships, and I agree that that is a primary strength. However, I feel the primary strength is the faculty. Many of my professors were available at extreme hours and had a strong commitment to the success of their students. Furthermore, there was a strong connection to industry experience presented by the faculty.
14.	I believe the estimating and project planning courses were strengths within the COSC program.
15.	I believe the primary strength in the COSC program is the people and the professors. The students in this program are very friendly and it is easy to make friends. Everyone loves to help you out. The professors are also very intelligent and instill a good work ethic in us. I think all the professors are excellent and have taught us many things from the industry to our everyday lives.
16.	I think the Industry Involvement is second to none, especially now where the industry has slowed down and students are loosing their offers, I have not heard of anyone who was not able to find a job somewhere.
17.	I think the primary strength is the professors always relate their teachings to life events and why it is so important to pay attention to detail in all aspects of construction. Also, I think it is a strength that some professors give the task and ask the students to figure it out with little guidance. This made me learn more than I needed to in order to complete the specific task.
18.	I think the primary strength of the COSC program is how close-knit the department is. Professors really care about the long-term success of their students. I feel like I could go to any professor for questions, advice, or just to talk. The department's relationship with the industry is also very strong. I think this is shown in the size and success of career fair, and also our high percentage of job placement upon graduation.
19.	I think the strength of the COSC program is the variety of job opportunities you can get from the course diversity. Students gain a knowledge fo estimating, project management, materials & methods, scheduling, and controls. I also believe the career fair/industry relations is a strong second.
20.	Industry experience from the professors to give guidance for our careers.
21.	Internship requirement

Table 12	. Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Strength of the COSC Program?"
Student Response	Comment
22.	Job placement and the instruction/advice from professors who used to be in the industry, not just career academics like most other majors.
23.	Learning through professor's past experiences in the industry.
24.	Meshing groups of people and training students to build connections
25.	Networking and finding a job after graduation.
26.	Obedience
27.	Our professors. Almost all of our professors were people who served in the industry for many years, and have great knowledge of the construction industry and process. Our professors truly care about us students and would do anything to help us in the next chapters in our lives.
28.	Preparing students for the white collar jobs of the construction industry (estimator, scheduler, project manager).
29.	preparing us for job searching after graduation
30.	Professor are always available for help
31.	Solid education with professors who understand their topics.
32.	teachers that have 25+ years of experience in the industry
33.	Teachers/professors that have came from the industry and have real life experience and knowledge.
34.	The ability to have the opportunity to go to career fair and have like a 90% chance of getting a job with the company you interned for.
35.	The applicable content we learned about the industry. Other COSC programs do not offer classes like estimating, structures or MEP.
36.	the career fair and business relations make getting a job after school very feasible

Table 12.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Strength of the COSC Program?"
Student Response	Comment
37.	The close knit relationships that professors have with students. Most people in the program come from similar backgrounds with like mindsets.
38.	The construction environment and experience you feel throughout the COSC program. There is a energy in that building like I have never felt before.
39.	The COSC program is really good at providing a wide view of the construction industry to students. It gives you a very general idea of what is possible for people to get into.
40.	The ease of getting a job after graduation
41.	The experience the faculty have
42.	The faculty and staff.
43.	The faculty and students of the program and most importantly the internship program
44.	The faculty interaction with the students allow for a highly successful environment.
45.	The industry focus, how personal and caring all of the professors are
46.	The information that the professors have through their own experience and how they relate it to coursework. Also the required internship is great.
47.	The internship experience seemed to be the primary strength of COSC program. I learned a lot of things through my internship experience and was able to apply it to my studies for my final couple of years.
48.	The Internship Path. That's where I learned the most throughout my time in construction science.
49.	The internship program
50.	The internship.
51.	The involvement of the program with builders throughout the nation. Our career fair is one of the best in the nation.

Table 12	2. Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Strength of the COSC Program?"
Student Response	Comment
52.	The network
53.	The overall wide array of experience and learning various fields.
54.	The primary strength in COSC is undoubtedly its instructors and faculty. Every semester I have had the pleasure to be taught by extremely knowledgeable and caring instructors who are always ready to provide any kind of support, assistance or advice. The faculty and staff has always provided and help I've requested as well. Fickle, McGinn, Jordan, Judge Grisham, Carlson, and Houston have all directly contributed to my confidence, interest, and success in the industry and for this, I am extremely thankful.
55.	The primary strength of the COSC classes is the Controls, scheduling, & estimating classes along with the internship
56.	The primary strength of the COSC program in my opinion are our career fairs and semester internships. The amount of companies that we get the opportunity to talk to and to potentially intern with and work for is wonderful. They are all great companies that teach us a lot during our internships. We learn so much from our internships because we get a full 5 months and even more if you count the summer.
57.	The primary strength of the COSC program is its professors and their experience in the construction industry.
58.	The primary strength of the COSC program is the networking that it provides for its students. Being a student from this program is an automatic ticket to finding good job opportunities as I've witnessed from past career fairs. Also, as I said before, COSC professors are a strength of the program as well.
59.	The primary strength of the COSC program would have to be the faculty. I believe learning from actual industry professionals was very beneficial.
60.	The primary strength of the program is the professors that have been in the industry. They have a wealth of knowledge and care for students.
61.	the professors
62.	The Professors

Table 12.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Strength of the COSC Program?"
Student Response	Comment
63.	The professors actually caring about you being successful and wanting to help you any way they can.
64.	The professors are fantastic.
65.	The professors are the primary strength in my opinion. The majority of them are industry professionals who are a wealth of knowledge. They also tend to care more about the knowledge and experience that you gain than grades, which is what truly matters in the industry.
66.	The professors are what I think the strength would be in the COSC program. Most, if not all professors knew their stuff and would always be available to help.
67.	The professors experience in everything. Everyone treated you like family and if you needed help with an assignment or just a ride home someone was there for you.
68.	The professors in my eyes are the primary strength. Most professors have years and years of experience.
69.	The Professors that are hired because of their real world experience and time in the construction industry.
70.	The program is building leaders in the industry. Professors care about their students and encourage them to be the best they can be. I am graduating knowing with full confidence that I am ready to take on any challenge that comes my way. I feel very well-equipped.
71.	The relationships you can build with your professors
72.	The size of the department. I truly enjoyed having the same classmates throughout my studies as we were able to grow closer with each other and learn off one another. this helped with professor relationships as well as it makes it easier for them to get involved one on one.
73.	The strength of the program is how much the upper levels prepare you for your internship. I think that MEP 1 taught and prepared me more than any class for my field internship.

Table 12. Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Strength of the COSC Program?"	
Student Response	Comment
74.	the support behind the career fair and internships availability to help find support through my time at A&M
75.	The support for students by faculty is incredible. Most professors are very helpful and approachable, especially when it comes to career and internship decisions.
76.	The tight-knit community and the overwhelming support from everyone especially professors both inside and outside of class.
77.	The willingness of professors to share their experiences in the industry and help students. As a student, I never felt like I was just a number like in engineering.
78.	They do well in transitioning students to the workforce.
79.	You get hands-on learning, and very excellent career guidance.
80.	You will find a job out of college 100%

Table 13. Fall 2020: Student Responses to the Question: "What Do You Believe is the
Primary Weakness of the COSC Program?"

Student Response	Comment
1.	A few classes might be considered as a little less than relevant or could benefit from an update in course content (i.e. structures I and surveying respectively).
2.	A handful of lousy professors who undoubtedly devote much more time and grade easier on one particular gender.
3.	A lot of the courses seemed like fillers and waste of time (Example: Project management, and structures 1
4.	A primary weakness to this program is its lack of endorsement for other sectors of the construction industry other than Commercial. The COSC program focuses heavily on preparing their students to become good employees for Commercial companies. This; however, is not a negative thing because it is obvious that commercial work is where most students will find success in the stability and security that this sector provides. I believe that other concentrations such as land development, or other types of residential work can lead students to become more entrepreneurial which in turn will provide great and influential professionals in their respective communities.
5.	Advising
6.	Although the program has a variety of course work it is all focused on commercial construction for the most part. I will be going to work as an estimator for a small civil company. I wish I had learned more about this scope of work.
7.	Certain professors are too engineered based.
8.	COSC has us students brainwashed to pursue a career in commercial high rise. They very rarely teach anything else like industrial, residential, or heavy civil like I am doing. I feel like I have learned more about my career in heavy civil during my two internships than my time in COSC classes. would just be better if there was more variety of classes for different career paths in the construction industry.
9.	Creating teams for group projects

Table 13.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Weakness of the COSC Program?"
Student Response	Comment
10.	Division of people who know a lot about construction vs. people learning for the first time.
11.	Each professor only teaches by the way they view is right, when there are many.
12.	Even though it is a small program, I don't feel as though there is a solid student to professor ratio. At times it made it difficult to ask questions due to the embarrassment of a stupid question or other students using the time for their questions.
13.	everything is geared towards being a PM in commercial construction. There is not very much to prepare you for being a super or being in residential
14.	Heard it often, but the structure of the Project Management class needs improvement. It is likely one of the most important classes in our department, but I mostly wrote schedules on excel about doing other things on excel. It would be nice to have the Project Management project be more applicable to what project managers actually face in the real world.
15.	I believe that some of the curriculum in the COSC department can be either a elective or removed. I felt there were no need for some of the classes that I was required to take during my time here.
16.	I believe the primary weakness of the COSC program is that during the senior semester Marketing takes up a lot of your time to focus on other classes/activities. I think it would be better if, during the last semester, all COSC classes are scheduled allowing the student to go into the field with construction on their mind instead of marketing, finance, or other similar subjects
17.	I believe the project management and surveying class was a weakness in my curriculum and could be improved.
18.	I believe the teachers are the primary weakness, there are some truly amazing teachers here, as well as some less than stellar. In construction especially having a strong education might not be as important as having experience but I personally feel that some of the more recent hires look great on paper but do not have the teaching mindset. It takes a specific kind of person to be a teacher and this has been one of my main complaints about the department, I feel some teachers have done a disservice to the department.

Table 13.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Weakness of the COSC Program?"
Student Response	Comment
19.	I can not pin point a primary weakness of the program. Thought the learning atmosphere, professors, guiding staff, and curriculum was all very efficient.
20.	I only wish that we did not have to do a semester internship. I agree internships are important, but I think this should be allowed to be broken up into two separate summer internships.
21.	I see no weakness in the COSC program.
22.	I think it is trying to grow too fast and the amount of time spent interacting with students is slowly decreasing.
23.	I think some of the classes should be re-designed to better prepare us for working in the industry.
24.	I would say the primary weakness was the project management course. I didn't learn anything. Procore was the main highlight of the class and when I entered my internship, I had no idea what was going on.
25.	In my opinion, it focuses slightly too much on the project manager side of things and not much field work. I'm still not very sure what the life of a superintendent in like.
26.	In my opinion, the primary weakness in our cosc department would have to be how the department is preparing us for more of a project manager route then a superintendent route.
27.	It does not cover very much residential or industrial applications to the industry.
28.	It severely lacks teaching the importance of sub contracting and sub contracting relations. I think a lot of students could be interested in sub contracting but the program is geared to placing everyone into a general contracting role.
29.	Lack of hands on labs, and the ability to get field-like experience.
30.	Many of the classes do not prepare you for the real world. EX. Structures1
31.	N/A

Table 13.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Weakness of the COSC Program?"
Student Response	Comment
32.	not being able to get an advisory appointment, I always had trouble since there is only 3 of them
33.	Not enough learning about each industry of construction. Mainly commercial based.
34.	Not having more options for different types of construction instead of basing it all just on residential or commercial.
35.	PHD Professors that have no real world experience.
36.	poor professor placement/staff management, like having a residential specialist teach a commercial capstone
37.	Preparing students for the blue collar jobs of the construction industry (superintendent).
38.	Professors assume we are coming into the program with a background in construction.
39.	Professors, there was favoritism.
40.	Project Management course.
41.	Project Management is a complete waste of time.
42.	Some classes felt useless. Ex: 353, 175, 421, etc
43.	Some courses like Project Management have a subpar curriculum in my opinion.
44.	Some of the classes that are not required such should not be in the curriculum. I felt like some of the classes were repetitive such as project management and management 209/309 and FINC 409. If they want us to learn management and finance I would rather it be construction related then in the business school. Those classes were very hard.
45.	Some of the course are not necessary in my opinion
46.	Some of the courses in the degree do not have much to do with specifically project management/Superintendent positions.

Table 13.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Weakness of the COSC Program?"
Student Response	Comment
47.	Some of the curriculum does not transfer directly to the workplace such as the project management class. I really feel like that class should be used to teach students how to write RFI's, complete submittals, how to take notes, how to take meeting minutes, etc. Those tasks were something I had to learn very quickly on my first internship.
48.	Some of the professors are old fashioned and act like new technology is bad.
49.	Some required classes were not necessarily applicable to the GC project manager track (i.e. surveying). Also, I believe that the Project Management class is in desperate need of a revamp. I would have liked to learn how to do things I would actually do in the workplace such as submittal review, RFI's, scheduling, and projections on a real project. Instead, we focused on a large research presentation that had little to nothing to do with real life project management.
50.	Some unnecessary classes.
51.	Stress that an internship is vital to making sense of the COSC degree. Hands on experience is LIMITED at TAMU so the real world job experience in the industry is what makes the knowledge stick.
52.	teaching method of estimating 1 & 2
53.	The absence of a required hands on class to gain basic construction knowledge for people who have not had jobsite experience before their internships. While there are many opportunities outside of class to gain this experience I think it would enhance student engagement if a class was structured around designing and building some type of structure during sophomore year.
54.	The biggest weakness would be how late some of the classes are. I understand that happens because of the professor either getting off of work, etc. but I feel that there should be online options for classes like this.
55.	The classes being repetitive in teaching the exact same curriculum and the turnover of professors.
56.	the course load is unreasonable. Upper level semesters are overloaded.
57.	The internship should either give you more credits or allow the student to take other classes simultaneously at TAMU
Table 13.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Weakness of the COSC Program?"
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Student Response	Comment
58.	The only weakness I can think of allowing for some of the classes to be more like the workforce. Because there were a couple of classes I felt that did not really help me for my internship.
59.	The only weakness I see and I am not sure if you would call it a weakness but not having a superintendent class for those who want to go down that career path.
60.	The primary weakness is the lack of diversity in the different fields within the industry. In my case, I want to go into the heavy highway/civil industry and I learned next to nothing about the industry within the classroom. If there were to be more focus on those different segments than strictly commercial I believe it would be highly advantageous.
61.	The primary weakness of the COSC program is a lack of classes on the superintendent career path. There is plenty on the project management side and the estimating side, but not enough on the superintendent's.
62.	The primary weakness of the COSC program is tied to its primary strength. Lack of diversity in ideas within the program. There was a stark under representation of research focused faculty members. This presents a possibly reduced emphasis on research, technological development and challenging of common thought within the industry. An example topic is climate change. It seemed like a topic that is better to leave untouched by the faculty.
63.	The primary weakness of the COSC program was probably the Surveying course. Although I did learn quite a bit, I do not believe it should be a required course, but rather an elective.
64.	The primary weakness would be the lack of spacing out of the harder classes if you follow the degree program. I know that being a college student means taking rigorous classes, but there were some semesters where it felt like a little too much, but it is do-able and I got through it.
65.	The professors.
66.	The weakness of the program is most likely the lack of a heavy civil focus. my experience in the program has been all about vertical building and not with horizontal.

Table 13.	Fall 2020: Student Responses to the Question: "What Do You Believe is the Primary Weakness of the COSC Program?"
Student Response	Comment
67.	The weakness of the program is that I wish some classes taught more on how to do each assignment rather than having to get through the assignment and not retain all of the information.
68.	There are some professors that are not commented to the students. Some of the courses in the COSC program were a little disappointing.
69.	There is a lack of diversification in career tracks I think. I know that I want to go into residential construction but aside from capstone there are no classes to help in this area. I think the same could be said for industrial and civil.
70.	There is no class that teaches students the ropes of being a project engineer.
71.	There is no emphasis on what the on site construction processes are. Everything seems to only be based around what a project manager does but not a superintendent.
72.	There were a few classes that I thought were kinda pointless.
73.	Too focused on the commercial/GC aspect of construction.
74.	Too many students and Francis Hall is too small for the size of our program. Also, we need stricter admission requirements.
75.	We need more diversity in the staff and faculty.
76.	We solely focus on the commercial side of construction and I believe that seeing it from the residential side would benefit as well.
77.	When you have professors straight from the construction industry with no prior teaching experience, every semester is a learning experience for both the students and the teachers themselves. Basically all professors we had were directly from industry with no teaching skills so it was difficult at times to know what to do. If y'all even read these comments please help the younger students with better professors so they don't stress and struggle as much as we did, great program loved it but the teaching side lacked strongly.
78.	You only really learn about commercial construction. There isn't a huge opportunity to learn about industrial or civil.

Table 13. Fall 2020: Student Responses to the Question: "What Do You Believe is th	e
Primary Weakness of the COSC Program?"	

Student Response Comment

Table 14. Fall 2020: Students' Response to the Question:"Do You Have a Job Upon Graduation?"

n=80			
Response	f^a	%	
Yes	57	71.3	
No	23	28.7	
No Response			
		1.	

Note: ^aFrequencies may not total stated n because of missing data.

Table 15. Fall 2020: Years of Professional ConstructionIndustry Job Experience

<i>n= 80</i>			
Response	f^a	%	
Internship Only	39	48.8	
1 to 5 Years	21	26.3	
Less than 1 Year	17	21.3	
6 to 10 Years	3	3.8	
None			
Over 10 Years			
No Response			
Note: ^a Frequencies may not total stated n because of missing data.			

Table 16. Fall 2020: Students' Job Plan Upon Graduation			
	n= 80		
Respo	nse	f^a	%
Const	ruction-Related Employment	69	86.3
Milita	ry	4	5.0
Non C	construction-Related Employment	3	3.8
	Emergency Response Services		
	I am taking some time off and living in College Station.		
	Power distribution as a lineman		
Graduate or Professional School		2	2.5
Other		1	1.3
	Continue playing football		
No Response		1	1.3
Note:	^a Frequencies may not total stated <i>n</i> because of n	nissing	data.

Table 17. Fall 2020: Students Reporting Receiving a JobOffer From Their Internship Provider

n = 80			
Response	f^a	%	
Yes	52	65.0	
No	28	35.0	
No Response			
Note: ^a Frequencies may not total stated n because of missing data.			

Table 18. Fall 2020: Students Reporting Accepting a Job Offer From Their Internship Provider			
<i>n= 80</i>			
Response	f^a	%	
Yes	32	40.0	
No	20	25.0	
No Response	28	35.0	

Note: ^aFrequencies may not total stated *n* because of missing data.

Table 19. Fall 2020: Student Comments: Factors Which Influenced Their Decision toAccept the Job Offer From Their Internship Provider

Student Response	Comment
1.	A smaller company that was very family oriented. I enjoyed my time with them and they really enjoyed me.
2.	Family company
3.	Good company culture and care for employees. Great benefits and opportunity.
4.	Great company and the majority of employees went to Texas A&M.
5.	Great company culture, nice people to work with, and a good spread of job growth potential.
6.	I actually interned with two companies and received job offers from both companies. It was not an easy choice to pick between the two but after consulting from Professors, friends, and family I was able to come to a decision.
7.	I enjoyed every second of my internship with the company. I was out in the field 24/7 running heavy equipment and doing traffic control. The people I worked with loved me and I love them as well. I was given a large amount of responsibly, more than an intern should be given and I loved it
8.	i enjoyed my internship and received an offer working under my internship boss. also, with covid i did not want to risk not finding another job

Table 19. Fall 2020: Student Comments: Factors Which Influenced Their Decision toAccept the Job Offer From Their Internship Provider

Student Response	Comment
9.	I enjoyed the company and the work they performed. Also, they work close to home
10.	I enjoyed the company, the people I worked with, and the work we were doing. It was also in the location I wished to work in and the compensation was great considering I am just a college graduate with only my internship as construction experience. The amount of interviews below were interviews for an internship. I did not interview with any other companies for a full time position after my internship company gave me a job offer.
11.	I HAVE WORKED FOR THE COMPANY SINCE 2017, GOOD PEOPLE, ROOM TO GROW IN THE COMPANY, I LOVE WHAT I DO FOR THEM.
12.	I loved my experience as an intern
13.	I really enjoyed my internship and believe that the company is a very good company that I an have a good career with.
14.	I really enjoyed the culture of the company I interned with, the employees I worked with really helped me develop my knowledge for the industry. I accepted there offer because I could see myself working with them for years to come.
15.	I really enjoyed the people in my office and learned a great deal from them. I am excited to be a part of their team again.
16.	I simply loved the company and the environment.
17.	I worked for the company before I attended Texas A&M, worked for them while I went to A&M, interned with them, will work for them upon graduation. The have worked with me through my college experience, always treated me fairly, there is great potential to grow in the company. I learn new things everyday.
18.	It is located in Bryan, Texas. I also want to work with a company that is still growing.
19.	Knowing the company's processes and the comfortability from upper management.
20.	Overall, I had a great internship and could see a future with this company.
21.	The company culture and the service they provide to communities

Table 19. Fall 2020: Student Comments: Factors Which Influenced Their Decision to
Accept the Job Offer From Their Internship Provider

Student	Comment
22.	The culture of the company is something I see myself being able to fully buy-in to. The company is well respected and takes exceptional pride in their projects and role in the construction industry.
23.	The culture of the company.
24.	The current economy was the biggest factor and the time of the offer. I was unable to attend the career fair my final semester, because my deadline to sign was before the career started.
25.	The current economy/global situation (COVID-19)
26.	The experience I had and the people I met there. Along with the work that they do
27.	The experience in the internship.
28.	The internship showed me that my company adheres to its proclaimed vision and culture. I appreciated that.
29.	The support the company and project team provided. The family environment that was offered. the starting salary was good starting out.
30.	The team and environment.
31.	They are operating in the area I want to live in. I was comfortable with working for them.
32.	They were my top choice since the beginning of college.

Table 20. Fall 2020: Number of Job Interviews Received
by Students

n=80		
Response	f^a	%
1 - 3	28	35.0
4 - 6	26	32.5
Did not seek an interview	9	11.3
7 - 9	6	7.5
10 or more	6	7.5
None	5	6.3
No Response		
Note: ^a Frequencies may not total stated <i>n</i> because of m	nissing	data.

Table 21. Fall 2020: Number of Second (Follow-Up) JobInterviews Received by Students

n= 80		
Response	f^{a}	%
1 - 3	39	48.8
None	14	17.5
4 - 6	7	8.8
7 - 9	3	3.8
10 or More	3	3.8
No Response	14	17.5
Note: ^a Frequencies may not total stated n because of m	nissing	data.

Table 22. Fall 2020: Number of Job Offers Received byStudents		
<i>n= 80</i>		
Response	f^a	%
1 Job Offer	33	41.3
2 Job Offers	18	22.5
None	15	18.8
3 Job Offers	5	6.3
4 Job Offers	5	6.3
5 Job Offers	3	3.8
7 Job Offers	1	1.3
6 Job Offers		
10 Job Offers		
No Response		
Note: ^a Frequencies may not total stated n because of n	nissing	data.

Table 23. Fall 2020: Sectors in Which Students Will be
Employed

n= 80		
Response	f^a	%
Commercial	49	61.3
Residential - Single Family	5	6.3
Heavy Civil/Highway	3	3.8
Industrial	3	3.8
Specialty	2	2.5
Oil/Gas/Energy	1	1.3
Residential - Multi-Family	1	1.3
Other		
No Response	16	20.0
Note: ^a Frequencies may not total stated n because of m	nissing	data.

Table 24. Fall 2020: Other Sectors in Which Sectors in Whi	tudent	s Will	
n = 80			
Response	f^a	%	
No Response	80	100	
Note: ^a Frequencies may not total stated n because of m	nissing	data.	

Table 25.	Fall 2020:	Major Texas Cities in Which Students
	Will Work	Upon Graduation

n= 80			
Response	f^a	%	
Austin	19	23.8	
Houston	17	21.3	
Dallas/Fort Worth	15	18.8	
San Antonio	9	11.3	
Other Texas Town/City	7	8.8	
Outside of Texas	6	7.5	
Outside of USA			
Beaumont/Port Arthur			
Amarillo			
No Response	7	8.8	
Note: ^a Frequencies may not total stated n because of m	nissing	data.	

n= 80			
Response	f^{u}	%	
College Station	2	2.5	
Bryan	1	1.3	
Eagle Pass	1	1.3	
Freeport	1	1.3	
Gregory/Corpus Christi	1	1.3	
Kerrville	1	1.3	
No Response	73	91.3	
Note: ^a Frequencies may not total stated n because of n	missing	data.	

Table 26. Fall 2020: Other Major Texas Cities in Which
Students Will Work Upon Graduation

Table 27. Fall 2020: States Other Than Texas in W Will Work Upon Graduation	hich Stuc	dents
<i>n= 80</i>		
Response	f^a	%
N/A, I will be moving around with the US Army	1	1.3
Oklahoma	1	1.3
South Carolina	1	1.3
Where the US military sends me	1	1.3
Wherever the Army sends me	1	1.3
No Response	75	93.8
Note: ^a Frequencies may not total stated <i>n</i> because of	missing	data.

Table 28. Fall 2020: Countries Other Than UStudents Will Work Upon Graduat	JSA in V ion	Vhich
<i>n= 80</i>		
Response	f^a	%
No Response	80	100
Note: ^a Frequencies may not total stated n because of	missing	data.

n - 80		
Response	f^a	%
Adolfson and Peterson Construction	1	1.3
Balfour Beatty Construction	2	2.5
Balfour Beatty US	1	1.3
Bartlett Cocke	1	1.3
Camarata Masonry Systems	1	1.3
City of College Station	1	1.3
CORE Construction	1	1.3
Cox Commercial Construction	1	1.3
D.E. Harvey Builders	1	1.3
Deanco	1	1.3
Dynamic Systems Inc.	1	1.3
Embree Construction Group	2	2.5
Embrey	1	1.3
Flintco, LLC	1	1.3
Gamma Construction	1	1.3
H-E-B	1	1.3
Harvey-Cleary Builders	3	3.8
Hensel Phelps	1	1.3
Highland Homes	1	1.3
Holder Construction Company	2	2.5
IE2 Construction	1	1.3
J.D. Abrams L.P.	1	1.3
JK Bernhard	1	1.3
Joeris General Contractors	1	1.3
Keating Auto Group	1	1.3
Lakey Electric	2	2.5
McCarthy	1	1.3
N/A	4	5.0
Northstar Builders Group	2	2.5
Not decided yet	1	1.3
ParaTex Roofing and Construction	1	1.3

Table 29. Fall 2020: Companies For Which Students Will Work Upon Graduation

Table 29. Fall 2020: Companies For Which Students Will Work Upon Graduation			
<i>n</i> = 80			
Response	f^a	%	
Perry Homes	1	1.3	
PLW Waterworks (Webber)	1	1.3	
Pogue Construction	2	2.5	
Razor Construction	1	1.3	
RK Hall Construction	1	1.3	
Ryan Companies	1	1.3	
S. Watts Group	1	1.3	
Structura	1	1.3	
Texan Drywall	1	1.3	
Texline Construction LLC	1	1.3	
The Beck Group	1	1.3	
The NRP Group	1	1.3	

Table 29. Fall

The Porter Company

Tri-Construction Co.

Turner Construction

United States Government

Victoria Air Conditioning, LTD

The Renovators Unlimited, LLC.

The Whiting-Turner Contracting Company

TIC

U.S Army

W.S. Bellows

No Response

Note: ^aFrequencies may not total stated n because of missing data.

1

1

1

1

1

2

2

1

1

1 14 1.3

1.3

1.3

1.3

1.3

2.5

2.5

1.3

1.3 1.3

17.5

D	n= 80	m	0/
Respor		f^{a}	%
Projec	t Engineer	20	25.0
Assista	ant Superintendent	8	10.0
Assista	ant Project Manager	8	10.0
Field E	Engineer	7	8.8
Office	Engineer	3	3.8
Junior	Project Manager	2	2.5
Projec	t Manager	2	2.5
Superi	ntendent	2	2.5
Builde	r	1	1.3
Estima	itor I	1	1.3
No Re	sponse	14	17.5
MY JO	OB TITLE IS NOT LISTED Other Job Titles	12	15.0
	Assistant Construction Project Leader	1	1.3
	Assistant Estimator	1	1.3
	Assistant Quarry Manager	1	1.3
	Draftsman	1	1.3
	DRAFTSMAN	1	1.3
	Field Coordinator.	1	1.3
	Fireman/EMT	1	1.3
	I am working at a car dealership in		
	College Station before going into	1	1.3
	construction.		
	Lineman	1	1.3
	Military	1	1.3
	· · · · · · · · · · · · · · · · · · ·		

Table 31. Fall 2020: Student's Self-Reported Annual Salary (in in New Position	\$) upon Grad	luation
n= 80		
Response	f^a	%
0	5	6.3
15	1	1.3
30000	1	1.3
37000	1	1.3
38260	1	1.3
42000	1	1.3
45000	1	1.3
50000	2	2.5
55000	1	1.3
56000	1	1.3
59000	1	1.3
60000	12	15.0
62000	3	3.8
63000	2	2.5
64000	2	2.5
64500	1	1.3
65000	10	12.5
65700	1	1.3
66000	2	2.5
68500	1	1.3
69000	1	1.3
69420	1	1.3
69600	1	1.3
70000	4	5.0
71000	1	1.3
78000	1	1.3
80000	1	1.3
No Response	20	25.0

Note: ^aFrequencies may not total stated n because of missing data.

Table 32. Fall 2020: Student's Self-Reported Bonus (in \$) Receiving in New Position					
n= 80					
Response	f^a	%			
0	31	38.8			
400	1	1.3			
1000	2	2.5			
1500	1	1.3			
2000	5	6.3			
2500	1	1.3			
3000	4	5.0			
4000	1	1.3			
5000	3	3.8			
9000	1	1.3			
10000	1	1.3			
12000	1	1.3			
No Response	28	35.0			
Note: ^a Frequencies may not total stated <i>n</i> because of missing data.					

n = 80							
Response	n	Avg	Std Dev	Min	Max	Median	Mode
All Positions							
Salary	54	\$61,481.13	9306.13	30000	80000	63500	60000
Bonus	21	\$3,733.33	3081.94	400	12000	3000	2000
Assistant Project Manager							
Salary	7	\$61,000.00	4654.75	56000	71000	60000	60000
Bonus	1	\$3,000.00		3000	3000	3000	3000
Assistant Superintendent							
Salary	7	\$65,071.43	2422.61	62000	70000	65000	65000
Bonus	3	\$2,666.67	577.35	2000	3000	3000	3000
Assistant Service Consultant							
Salary							
Bonus							
Builder							
Salary	1	\$65,000.00		65000	65000	65000	65000
Bonus	0						
Construction Coordinator							
Salary							
Bonus							

		n= 80					
Response	n	Avg	Std Dev	Min	Max	Median	Mode
Estimator 1							
Salary	1	\$70,000.00		70000	70000	70000	70000
Bonus	1	\$2,500.00		2500	2500	2500	2500
Field Engineer							
Salary	6	\$66,166.67	1940.79	65000	70000	65500	65000
Bonus	4	\$2,625.00	1600.78	1500	5000	2000	2000
General Foreman							
Salary							
Bonus							
Junior Estimator							
Salary							
Bonus							
Office Engineer							
Salary							
Bonus							
Junior Project Engineer							
Salary							
Bonus							

n = 80							
Response	n	Avg	Std Dev	Min	Max	Median	Mode
Junior Project Manager							
Salary	2	\$43,500.00	9192.39	37000	50000	43500	43500
Bonus	0						
Office Engineer							
Salary	2	\$66,510.00	4539.63	63000	69420	66210	63000
Bonus	0						
Project Controls Scheduling Analyst							
Salary							
Bonus							
Project Engineer							
Salary	17	\$63,517.65	5247.29	55000	78000	63000	60000
Bonus	8	\$5,375.00	4373.21	1000	12000	4000	1000
Project Engineer II							
Salary							
Bonus							
Project Manager							
Salary	1	\$70,000.00		70000	70000	70000	70000
Bonus	0						

n=80							
Response	n	Avg	Std Dev	Min	Max	Median	Mode
Rotational Project Engineer							
Salary							
Bonus							
Purchasing Agent							
Salary							
Bonus							
Project Manager Associate							
Salary							
Bonus							
Superintendent							
Salary	1		\$80,000.00	80000	80000	80000	80000
Bonus	1		\$2,000.00	2000	2000	2000	2000
Traveling Project Engineer							
Salary							
Bonus							
My Job Title is Not Listed							
Salary	9	\$50,695.64	12881.45	30000	69000	50000	60000
Bonus	3	\$3,133.33	2419.37	400	5000	4000	400
Note: ^a Frequencies may not total stated n be	cause of missing	data.					

n=80							
Response	n	f^a	%				
All Positions							
30000	54	1	1.3				
37000	54	1	1.3				
38261	54	1	1.3				
42000	54	1	1.3				
45000	54	1	1.3				
50000	54	2	2.5				
55000	54	1	1.3				
56000	54	1	1.3				
59000	54	1	1.3				
60000	54	12	15.0				
62000	54	3	3.8				
63000	54	2	2.5				
64000	54	2	2.5				
64500	54	1	1.3				
65000	54	10	12.5				
65700	54	1	1.3				
66000	54	2	2.5				
68500	54	1	1.3				
69000	54	1	1.3				
69420	54	1	1.3				
69600	54	1	1.3				
70000	54	4	5.0				
71000	54	1	1.3				
78000	54	1	1.3				
80000	54	1	1.3				
No Response	80	26	32.5				

Table 34. Fall 2020: Student Starting Salaries by Position Title						
	<i>n= 80</i>					
Response		n	f ^a	%		
Assistant H	Project Manager					
	56000	7	1	12.5		
	60000	7	5	62.5		
	71000	7	1	12.5		
	No Response	7	1	12.5		
Assistant S	Service Consultant					
Assistant S	Superintendent					
	62000	7	1	12.5		
	64000	7	1	12.5		
	64500	7	1	12.5		
	65000	7	3	37.5		
	70000	7	1	12.5		
	No Response	7	1	12.5		
Builder						
	65000	1	1	100.0		
	No Response					
Constructi	on Coordinator					
Estimator	1					
	70000	1	1	100.0		
	No Response					
Field Engi	neer					
	65000	7	3	42.9		
	66000	7	2	28.6		
	70000	7	1	14.3		
	No Response	7	1	14.3		
General Fo	preman					

Table 34. Fall 2020: Student Starting Salaries by Position Title						
n=80						
Response		п	f^{a}	%		
Junior Est	imator					
Junior Pro	ject Manager					
	37000	2	1	50.0		
	50000	2	1	50.0		
	No Response	2				
Office Eng	gineer					
	63000	3	1	33.3		
	69420	3	1	33.3		
	No Response	3	1	33.3		
Project Co	ntrols Scheduling Analyst		1	55.5		
110jeet ee						
Project En	gineer					
T TOJECT EII	55000	20	1	5.0		
	59000	20	1	5.0		
	60000	20	5	25.0		
	62000	20	1	5.0		
	63000	20	1	5.0		
	64000	20	1	5.0		
	65000	20	3	15.0		
	65700	20	1	5.0		
	68500	20	1	5.0		
	69600	20	1	5.0		
	78000	20	1	5.0		
	No Response	20	3	15.0		
Project En	gineer II					
· ·						
Project Ma	anager					
-	70000	2	1	50.0		
	No Response	2	1	50.0		

		n= 80		
Response		n = 00	.f ^u	%
Purchasing Ag	ent			
Project Manage	er Associate			
Superintenden				
800	000	2	1	50.0
No	Response	2	1	50.0
My Job Title is	Not Listed			
30	000	12	1	8.3
38	261	12	1	8.3
42	000	12	1	8.3
45	000	12	1	8.3
50	000	12	1	8.3
60	000	12	2	16.7
62	000	12	1	8.3
69	000	12	1	8.3
No	Response	12	3	25.0

Table 35. Fall 2020: Student Starting Bonuses by Position Title						
	<i>n= 80</i>					
Response		n	f^a	%		
All Positi	ons					
	400	21	1	1.3		
	1000	21	2	2.5		
	1500	21	1	1.3		
	2000	21	5	6.3		
	2500	21	1	1.3		
	3000	21	4	5.0		
	4000	21	1	1.3		
	5000	21	3	3.8		
	9000	21	1	1.3		
	10000	21	1	1.3		
	12000	21	1	1.3		
	No Response	80	59	73.8		
Assistant	Project Manager	•				
	3000	8	1	12.5		
	No Response	8	7	87.5		
Assistant	Service Consultant	•				
	No Response					
Assistant	Superintendent					
	2000	8	1	12.5		
	3000	8	2	25.0		
	No Response	8	5	62.5		
Builder		•				
	No Response	1	1	100.0		
Construct	ion Coordinator	•				
	No Response					
Estimator	1					
	2500	1	1	100		
	No Response	1				

Table 35. Fall 2020: Student Starting Bonuses by Position Title						
n=80						
Response		п	f^a	%		
Field Eng	ineer					
	1500	7	1	14.3		
	2000	7	2	28.6		
	5000	7	1	14.3		
	No Response	7	3	42.9		
General F	oreman					
	No Response					
Junior Est	imator					
	No Response					
Junior Pro	ject Engineer					
	No Response					
Junior Pro	vject Manager					
	No Response	2	2	100		
Office En	gineer					
	No Response	3	3	100		
Project Co	ontrols Scheduling Analyst					
	No Response					
Project Er	ngineer					
	1000	20	2	10.0		
	2000	20	1	5.0		
	3000	20	1	5.0		
	5000	20	1	5.0		
	9000	20	1	5.0		
	10000	20	1	5.0		
	12000	20	1	5.0		
	No Response	20	12	60.0		

Table 35. Fall 2020: Student Starting Bonuses by Position Title								
<i>n= 80</i>								
Response	n	f^a	%					
Project Engineer II								
No Response								
Project Manager								
No Response	2	2	100					
Project Manager Associate								
No Response								
Superintendent								
2000	2	1	50.0					
No Response	2	1	50.0					
Purchasing Agent								
No Response								
My Job Title is Not Listed								
400	12	1	8.3					
4000	12	1	8.3					
5000	12	1	8.3					
No Response	12	9	75.0					
Note: ^a Frequencies may not total stated <i>n</i> because of missing data.								

Table 36. Fall 2020: Mean Score of Students' Response to the Question: "As a result of
your COSC degree program, how confident do you feel in your ability to:"

SLO #	Student Learning Outcome	n	Μ	SD	Confidence				
6.	Analyze professional decisions based upon ethical principles	80	3.71	.455	Very Confident				
9.	Apply construction management skills as a member of a multi-disciplinary team	80	3.53	.616	Very Confident				
7.	Analyze construction documents for planning and management of construction processes	79	3.44	.675	Confident				
1.	Create written communications appropriate to the construction discipline	80	3.41	.630	Confident				
8.	Analyze methods, materials, and equipment used to construct projects	80	3.41	.706	Confident				
2.	Create oral communications appropriate to the construction industry	80	3.38	.644	Confident				
20.	Understand the basic principles of mechanical, electrical and piping systems	79	3.33	.674	Confident				
15.	Understand construction quality assurance and control	80	3.31	.628	Confident				
16.	Understand construction project control processes	80	3.29	.620	Confident				
12.	Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process	80	3.29	.620	Confident				
10.	Apply electronic-based technology to manage the construction process	80	3.24	.716	Confident				
13.	Understand construction risk management	80	3.16	.719	Confident				
18.	Understand the basic principles of sustainable construction	80	3.15	.713	Confident				
3.	Create a construction project safety plan	80	3.11	.675	Confident				
4.	Create a construction project cost estimate	80	3.11	.827	Confident				
14.	Understand construction accounting and cost control	80	3.09	.640	Confident				
17.	Understand the legal implications of contract, common, and regulatory law to manage a construction project	80	3.06	.718	Confident				
19.	Understand the basic principles of structural behavior	80	2.99	.771	Confident				
5.	Create construction project schedules	80	2.95	.727	Confident				
11.	Apply basic surveying techniques for construction layout and control	80	2.58	.952	Confident				
Note:	Very Confident = $3.51 - 4.00$; Confident = $2.51 - 3.50$ Not Confident = $1.00 - 1.50$); Som	ewhat Co	nfident =	1.51 – 2.50;				
* Num	ber of participants who answered "Don't Know" were	exclud	ed from c	alculation	of Importance				
Leve	Level.								

Table 37.Fall 2020: Mean Score of Students' Response to the Question: "How
important do you believe each of the following will be in your future
career?"

SLO #	Student Learning Outcome	n	Μ	SD	Importance				
2.	Create oral communications appropriate to the construction industry	80	3.81	.393	Very Important				
7.	Analyze construction documents for planning and management of construction processes	80	3.81	.393	Very Important				
1.	Create written communications appropriate to the construction discipline	80	3.79	.412	Very Important				
16.	Understand construction project control processes	79	3.76	.459	Very Important				
9.	Apply construction management skills as a member of a multi-disciplinary team	79	3.75	.466	Very Important				
15.	Understand construction quality assurance and control	80	3.74	.470	Very Important				
6.	Analyze professional decisions based upon ethical principles	80	3.69	.518	Very Important				
13.	Understand construction risk management	80	3.68	.497	Very Important				
17.	Understand the legal implications of contract, common, and regulatory law to manage a construction project	80	3.68	.546	Very Important				
14.	Understand construction accounting and cost control	79	3.65	.578	Very Important				
5.	Create construction project schedules	80	3.64 .601 Ve		Very Important				
10.	Apply electronic-based technology to manage the construction process	80	3.64	.621	Very Important				
8.	Analyze methods, materials, and equipment used to construct projects	80	3.60	.628	Very Important				
20.	Understand the basic principles of mechanical, electrical and piping systems	80	3.56	.613	Very Important				
12.	Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process	80	3.58	.671	Very Important				
4.	Create a construction project cost estimate	79	3.54	.694	Very Important				
3.	Create a construction project safety plan	80 3.45 .778	0 3.45	80 3.45	80 3.45 .778	.778	Important		
18.	Understand the basic principles of sustainable construction	80	3.23	.795	Important				
19.	Understand the basic principles of structural behavior	80	3.06	.862	Important				
11.	Apply basic surveying techniques for construction layout and control	80	2.83	1.041	Important				
Note:	Very Important = $3.51 - 4.00$; Important = $2.51 - 3.50$; Somew = $1.00 - 1.50$	hat Imp	ortant =	1.51 - 2.50); Not Important				
= 1.00 – 1.50 * Number of participants who answered "Don't Know" were excluded from calculation of Importance Level.									

Table 38. Fall 2020: Student Responses to the Question: "As a result of yourCOSC degree program, how confident do you feel in your ability to:"

	n= 80									
		Ve Conf	ery Fident	Conf	Confident Som		ewhat Fident	N Conf	ot ident	
SLO #	Student Learning Outcomes	f^a	%	f^a	%	f^a	%	f°	%	
6.	Analyze professional decisions based upon ethical principles	57	71.3	23	28.7					
9.	Apply construction management skills as a member of a multi-disciplinary team	47	58.8	28	35.0	5	6.3			
7.	Analyze construction documents for planning and management of construction processes	43	53.8	28	35.0	8	10.0			
8.	Analyze methods, materials, and equipment used to construct projects	42	52.5	30	37.5	7	8.8	1	1.3	
1.	Create written communications appropriate to the construction discipline	39	48.8	35	43.8	6	7.5			
2.	Create oral communications appropriate to the construction industry	37	46.3	36	45.0	7	8.8			
20.	Understand the basic principles of mechanical, electrical and piping systems	35	43.8	35	43.8	9	11.3			
15.	Understand construction quality assurance and control	32	40.0	41	51.2	7	8.8			
10.	Apply electronic-based technology to manage the construction process	32	40.0	35	43.8	13	16.3			
12.	Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process	30	37.5	43	53.8	7	8.8			
4.	Create a construction project cost estimate	30	37.5	31	38.8	17	21.3	2	2.5	
16.	Understand construction project control processes	29	36.3	46	57.5	4	5.0	1	1.3	
13.	Understand construction risk management	27	33.8	40	50.0	12	15.0	1	1.3	
18.	Understand the basic principles of sustainable construction	26	32.5	41	51.2	12	15.0	1	1.3	
17.	Understand the legal implications of contract, common, and regulatory law to manage a construction project	22	27.5	42	52.5	15	18.8	1	1.3	
19.	Understand the basic principles of structural behavior	22	27.5	36	45.0	21	26.3	1	1.3	
3.	Create a construction project safety plan	21	26.3	49	61.3	8	10.0	2	2.5	
14.	Understand construction accounting and cost control	20	25.0	47	58.8	13	16.3			
5.	Create construction project schedules	18	22.5	41	51.2	20	25.0	1	1.3	
11.	Apply basic surveying techniques for construction layout and control	16	20.0	24	30.0	30	37.5	10	12.5	
Note:	^a Frequencies may not total stat	ed n b	ecause	of miss	sing dat	ta.				

Table 39. Fall 2020: Student Responses to the Question: "How important do you
believe each of the following Student Learning Outcomes will be in your
future career?"

	n = 80									
		Ve Impo	ery ortant	Impo	Important Somewhat Important		Not Important			
SLO #	Student Learning Outcomes	f^a	%	f^a	%	f^a	%	f"	%	
2.	Create oral communications appropriate to the construction industry	65	81.3	15	18.8					
7.	Analyze construction documents for planning and management of construction processes	65	81.3	15	18.8					
1.	Create written communications appropriate to the construction discipline	63	78.8	17	21.3					
16.	Understand construction project control processes	61	76.3	17	21.3	1	1.3			
15.	Understand construction quality assurance and control	60	75.0	19	23.8	1	1.3			
9.	Apply construction management skills as a member of a multi-disciplinary team	60	75.0	18	22.5	1	1.3			
10.	Apply electronic-based technology to manage the construction process	57	71.3	17	21.3	6	7.5			
6.	Analyze professional decisions based upon ethical principles	57	71.3	21	26.3	2	2.5			
17.	Understand the legal implications of contract, common, and regulatory law to manage a construction project	57	71.3	20	25.0	3	3.8			
5.	Create construction project schedules	56	70.0	19	23.8	5	6.3			
13.	Understand construction risk management	55	68.8	24	30.0	1	1.3			
14.	Understand construction accounting and cost control	55	68.8	20	25.0	4	5.0			
12.	Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process	54	67.5	18	22.5	8	10.0			
8.	Analyze methods, materials, and equipment used to construct projects	53	66.3	23	28.7	3	3.8	1	1.3	
4.	Create a construction project cost estimate	51	63.7	21	26.3	6	7.5	1	1.3	
20.	Understand the basic principles of mechanical, electrical and piping systems	50	62.5	25	31.3	5	6.3			
3.	Create a construction project safety plan	48	60.0	22	27.5	8	10.0	2	2.5	
18.	Understand the basic principles of sustainable construction	34	42.5	32	40.0	12	15.0	2	2.5	
19.	Understand the basic principles of structural behavior	29	36.3	30	37.5	18	22.5	3	3.8	
11.	Apply basic surveying techniques for construction layout and control	26	32.5	25	31.3	18	22.5	11	13.8	
Note:	^a Frequencies may not total stat	ed <i>n</i> b	ecause	of miss	sing dat	a.				

Table 40. Fall 2020: Students' Response to the Question "After Completing the COSC Program, What Do You Believe is Your:

	n = ov											
Question	Exce	ellent	Go	ood	Ave	rage	Fa	air	Рс	oor	N Appli	ot cable
	f^a	%	f^a	%	f^a	%	f^{a}	%	f^a	%	f^a	%
Preparation to Apply Ethical Principles	57	71.3	23	28.7								
Preparation to Apply Critical Thinking Skills	57	71.3	18	22.5	5	6.3						
Overall Construction Science Competence	52	65.0	25	31.3	2	2.5	1	1.3				
Preparation for Life-Long Learning	49	61.3	30	37.5	1	1.3						
Level of Social Competence	40	50.0	33	41.3	6	7.5						
Level of Cultural Competence	33	41.3	36	45.0	10	12.5						
Level of Global Competence	25	31.3	35	43.8	17	21.3	3	3.8				
Note: ^a Frequencies may not total stat	ed n be	ecause	of miss	sing dat	a.							

Table 41. Fall 2020: Student's Self-Identified Most Challenging COSC Classes									
n = 80									
	M Challe 1 st C	ost enging hoice	Most Challenging 2 nd Choice						
Courses	f^{a}	%	f^a	%					
COSC 375: Estimating II	49	61.3	7	8.8					
COSC 301: Surveying	6	7.5	14	17.5					
COSC 353: Project Management	6	7.5	10	12.5					
COSC 475: Construction Scheduling	5	6.3	17	21.3					
COSC 321: Structures I	5	6.3	8	10.0					
COSC 440-446: Capstone	5	6.3	5	6.3					
COSC 275: Estimating I	1	1.3	4	5.0					
COSC 465: Construction Law II	1	1.3	3	3.8					
COSC 325: Environmental Controls I	1	1.3	2	2.5					
COSC 153: Introduction to Construction Industry	1	1.3							
COSC 463: Construction Law I			3	3.8					
COSC 254: Methods and Materials II			2	2.5					
COSC 494: Internship			2	2.5					
COSC 326: Environmental Controls II			1	1.3					
COSC 421: Structures II			1	1.3					
COSC 461: Building Information Modeling (BIM)			1	1.3					
COSC 477: Project Controls									
COSC 253: Methods and Materials I									
COSC 381: Ethics in Construction Industry									
COSC 364: Safety I									
COSC 464: Safety II									
COSC 175: Construction Graphics									
Other									
Did Not Respond									

	Table 42. Fall 2020: Student's Self-Identified Least Challenging COSC Classes								
n = 80									
		Le Challe 1 st Cl	ast enging hoice	Least Challenging 2 nd Choice					
	Courses	f^a	%	f^a	%				
	COSC 364: Safety I	21	26.3	24	30.0				
	COSC 381: Ethics in Construction Industry	19	23.8	15	18.8				
	COSC 175: Construction Graphics	17	21.3	7	8.8				
	COSC 326: Environmental Controls II	4	5.0	1	1.3				
	COSC 494: Internship	3	3.8	2	2.5				
	COSC 153: Introduction to Construction Industry	2	2.5	2	2.5				
	COSC 301: Surveying	2	2.5	1	1.3				
	COSC 463: Construction Law I	2	2.5	1	1.3				
	COSC 253: Methods and Materials I	1	1.3	12	15.0				
	COSC 464: Safety II	1	1.3	4	5.0				
	COSC 321: Structures I	1	1.3	3	3.8				
	COSC 254: Methods and Materials II	1	1.3	1	1.3				
	COSC 275: Estimating I	1	1.3	1	1.3				
	COSC 325: Environmental Controls I	1	1.3	1	1.3				
	COSC 353: Project Management	1	1.3	1	1.3				
	COSC 440-446: Capstone	1	1.3						
	COSC 461: Building Information Modeling (BIM)	1	1.3						
	COSC 465: Construction Law II	1	1.3						
	COSC 421: Structures II			2	2.5				
	COSC 477: Project Controls			1	1.3				
	COSC 351: Construction Equipment								
	COSC 375: Estimating II								
	COSC 475: Construction Scheduling								
	Other								
	Did Not Respond			1	1.3				
rable 45. Fail 2020: Student's Sen-Identified Most Enjoyable COSC Classes									
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$n = 80$ Most Most Enjoyable Enjoya $1^{st} \text{ Choice } 2^{nd} \text{ Choice } 1^{st} Cho$				ost yable hoice					
	Courses	f^a	%	f^a	%				
	COSC 375: Estimating II	17	21.3	11	13.8				
	COSC 477: Project Controls	12	15.0	14	17.5				
	COSC 494: Internship	12	15.0	8	10.0				
	COSC 325: Environmental Controls I	6	7.5	9	11.3				
	COSC 440-446: Capstone	5	6.3	2	2.5				
	COSC 301: Surveying	4	5.0	7	8.8				
	COSC 253: Methods and Materials I	4	5.0	3	3.8				
	COSC 275: Estimating I	4	5.0	2	2.5				
	COSC 461: Building Information Modeling (BIM)	3	3.8	2	2.5				
	COSC 175: Construction Graphics	2	2.5	3	3.8				
	COSC 463: Construction Law I	2	2.5	3	3.8				
	COSC 254: Methods and Materials II	2	2.5	2	2.5				
	COSC 465: Construction Law II	1	1.3	4	5.0				
	COSC 475: Construction Scheduling	1	1.3	2	2.5				
	COSC 326: Environmental Controls II	1	1.3	1	1.3				
	COSC 353: Project Management	1	1.3	1	1.3				
	COSC 364: Safety I	1	1.3	1	1.3				
	COSC 464: Safety II	1	1.3	1	1.3				
	COSC 321: Structures I	1	1.3						
	COSC 381: Ethics in Construction Industry			1	1.3				
	COSC 421: Structures II			1	1.3				
	COSC 153: Introduction to Construction Industry								
	Other			2	2.5				
	Did Not Respond								

Table 44. Fall 2020: Student's Self-Identified Least Enjoyable COSC Class					
	n = 80				
	Least Enjoyable 1 st Choice		Le Enjo 2 nd C	Least Enjoyable 2 nd Choice	
	Courses	f^{a}	%	f^a	%
	COSC 353: Project Management	25	31.3	13	16.3
	COSC 301: Surveying	13	16.3	12	15.0
	COSC 321: Structures I	9	11.3	12	15.0
	COSC 326: Environmental Controls II	6	7.5	11	13.8
	COSC 475: Construction Scheduling	4	5.0	3	3.8
	COSC 325: Environmental Controls I	4	5.0	2	2.5
	COSC 440-446: Capstone	4	5.0	2	2.5
	COSC 375: Estimating II	3	3.8	5	6.3
	COSC 175: Construction Graphics	2	2.5	3	3.8
	COSC 254: Methods and Materials II	2	2.5	3	3.8
	COSC 463: Construction Law I	2	2.5	3	3.8
	COSC 381: Ethics in Construction Industry	2	2.5	1	1.3
	COSC 465: Construction Law II	1	1.3	5	6.3
	COSC 421: Structures II	1	1.3	2	2.5
	COSC 253: Methods and Materials I	1	1.3		
	COSC 364: Safety I	1	1.3		
	COSC 275: Estimating I			1	1.3
	COSC 477: Project Controls			1	1.3
	COSC 153: Introduction to Construction Industry				
	COSC 461: Building Information Modeling (BIM)				
	COSC 464: Safety II				
	COSC 494: Internship				
	Other			1	1.3
	Did Not Respond				

Table 4	5. Fall 2020: Student Responses to the Question: "What Do You Like Most About Francis Hall?"
Student	Comment
1.	Always incredibly clean. Maintains a modern look while preserving the history of the building. Very proud of how it represents our department.
2.	Being able to access all of my professors
3.	Being able to see all of the examples of equipment in rooms with widows and the wall cut outs
4.	Being able to visually understand the components of the building
5.	Comradery
6.	Everyone was very welcoming and friendly. It's nice being in the same building as everyone in your department.
7.	Francis Hall was a very valuable resource for me in my time in Construction Science. It proved all the technology for me to be successful in my courses and its exposed electrical, mechanical, and plumbing systems proved to be and uniquely valuable learning tool. I feel very fortunate to have been able to use Francis Hall to its full extent and to be there at a time very recent to its renovation.
8.	Friendliness, casual, everybody knows everybody.
9.	Gives us a great look at all of the MEP, which helps with us learning.
10.	Great atmosphere to learn
11.	How the building is designed. You can see exactly what you are learning about.
12.	How you can walk in and know the majority of everyone standing around
13.	I enjoyed everyone being close together. it created a family environment. I liked the building layout with the exposed MEP. I liked the classroom sizes and layouts. I used the study rooms countless times.
14.	I enjoyed Francis Hall being a smaller building, which allowed everyone to network with everyone in our major. I also liked the classroom sizes.

Table 45.	Fall 2020: Student Responses to the Question: "What Do You Like Most About Francis Hall?"
Student	Comment
15.	I enjoyed having exposed MEP items throughout.
16.	I enjoyed how everyone in Francis Hall were extremely friendly, you could walk up to anyone and have a conversation like you have known the person forever. I feel that is something you do not get in every major.
17.	I enjoyed the atmosphere and exposed ceilings to see how utilities were routed in the building.
18.	I enjoyed the open ceilings as it often aided in my overall education and learning experience.
19.	I felt like I knew most of the people there. I loved how I could see familiar faces on a regular basis. Having that condensed, common area along with many of the same classes as other people enabled me to make some of my best friends at TAMU.
20.	I like how small both it and the department are. It allows everyone to work together without being spread all over the place. Additionally, having all faculty in the building makes question answering and office hours easier.
21.	I like that are core classes are conducted there. The labs and equipment work exceptionally. The building is also clean and is well maintained.
22.	I like that Francis Hall is a practical building for COSC where we can easily see building materials and systems in person as we learn about them.
23.	I like that Francis Hall is a smaller first floor and additional classrooms are on higher floors. I believe this forced everyone to enter through the main entrances on the first floor and gave me the chance to see and meet a lot more people compared to a very large single floor building.
24.	I like that the classrooms are very comfortable and up to date. I also enjoy the number of study areas that are available.
25.	I like the "live lab" theme, meaning, I like how the conduit, electrical. plumbing, and elevator shaft are all visible.
26.	I like the community feel it possesses. I always run into someone I know when I am there.

Fall 2020: Student Responses to the Question: "What Do You Like Most About Francis Hall?"
Comment
I like the exposed elements of the building that allow students to understand what they are reading in a textbook.
I like the layout of Francis Hall. It was very creative to have the building designed the way it is.
I like the set up of the rooms. Also I like how all of the professors offices are set up and how the offices are easily accessible. There is also a good amount of study rooms in Francis Hall if Evans was ever to crowded.
I liked how much of the building infrastructure was exposed so we could see some of what we were learning about in a real building.
I liked the community environment, that it was all in one place and everyone is there together.
I liked the friendly environment about Francis Hall. It was very easy to mix and mingle with everyone in the building.
I love how Francis Hall is laid out as well as the classrooms. It's laid out in a way that helps students engage with one another. Francis Hall is a beautiful building.
I love the available study spaces and the fact that the classrooms are open when classes are not in session. This really promotes a sense of community and allows us to work together, socialize, etc.
I love the classrooms. They have enough outlets and computers to support students during class.
I loved the new rennovation of the building. I also enjoyed the computer labs that had additional monitors for students to use during class.
It is clean and new,
It is more personal, like a small high school, instead of an entire college in the university.
It was a second home. I also liked how it was open to see every aspect of construction.

Table 45.	Fall 2020: Student Responses to the Question: "What Do You Like Most About Francis Hall?"
Student	Comment
40.	It was relatively close to everything that I needed around Texas A&M. All if not most classes were in the building, as well as professor's offices.
41.	New, Clean, and modern.
42.	Seeing exposed MEP systems Glass windows on mechanical and plumbing rooms Window to elevator shaft Seeing original and new structural member
43.	The ability to have a building big enough to support my classes but not so big it took me forever to get to class.
44.	The ability to see all of the systems
45.	The amount of class rooms that had extra screens for students to use
46.	The aspects of construction to learn and view what we learned.
47.	the building design. the ability to have ease of access to meet with professors the close proximity to all of my classes
48.	The building is very unique and I am always showing it off to my friends that are in different majors. I love the exposed utilities in the ceilings and walls around the building. I always learn something new when I am there.
49.	The computer lab and exposed MEP systems.
50.	The computer labs with dual monitors.
51.	The construction and environment of the building is very impressive. I like how you can see all the beam and MEP equipment in the ceiling
52.	The design and team rooms
53.	The estimating labs were pretty cool to use.
54.	The exposed building components. The history. The study rooms. The ease of going from class to class. The nice restrooms.

Table 4	15. Fall 2020: Student Responses to the Question: "What Do You Like Most About Francis Hall?"
Student	Comment
55.	The exposed elements to use for instruction. The study rooms. The fact that it is only COSC and it feels like I knew everyone and could talk to anyone there including professors
56.	THE EXPOSED MEP SYSTEMS
57.	The exposed MEP, the location on campus, the wall decorations
58.	The family environment it encourages.
59.	The friendly environment that it has established. Students can go down the hall on the 3rd floor and talk to their professors.
60.	The interior architecture really allowed an environment for construction science development by showing certain features that another typical building would hide behind ceiling covers and doors/walls. It made classes such as MEP easier to piece our education together.
61.	The intimate nature of the building allows a healthy amount of interaction between students. Easy to meet new friends in classes.
62.	The labs that you could use an external monitor
63.	The layout of the classrooms was great. each lab that required additional working space had it provided. none of my classes felt too crowded as they were either small enrollment or had a large area of seating.
64.	The open concept really helped to understand building structure and components before the internship. It was easy to walk into a professors office of the student lounge and receive help.
65.	The panes of glass allowing students to view parts of the building and labels of different parts of the MEP system. The printers located conveniently in the building. The vending machines. The hydronic HVAC system in the building is amazing to view.

Table 45.	Fall 2020: Student Responses to the Question: "What Do You Like Most About Francis Hall?"
Student	Comment
66.	The professors are what make Francis Hall what it is. Many of the professors are enthusiastic to help students with school work and with any other topics/issues outside of school. After asking students in other majors about their professors, they sound like they do not have the same passion as ours do in Francis Hall.
67.	The quality of the restoration and the fact that it was built in 1918.
68.	The rooms with compuets on the second floor.
69.	The second screens available at all time
70.	The sitting areas as well as the study rooms are fantastic features. Also the easy accessibility to professors.
71.	The study rooms on the second floor with the room, and tv, and computers
72.	The thing I like most about Francis Hall is the environment. It almost feels like a second home for me. Francis Hall is a great building to learn from with all the exposed features.
73.	The thing I like most about Francis Hall is the exposed construction style of the building.
74.	The unique industrial yet modern appearance.
75.	The way certain aspects of the building were left unfinished so that you can see into the building structure and features.
76.	The way it overall feels like a construction building. How items were left exposed like wiring and lights.
77.	There was no barrier between students and professors, You were able to speak to anyone and everyone
78.	They're are no ceilings, so students can see the overhead components.
79.	We can physically see what we are learning as pieces and components of the building, which is brilliant.

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Table 46	. Fall 2020: Student Responses to the Question: "What About Francis Hall Could Be Improved?"
Student	Comment
1.	a better place for congregating, like an open corridor (unrealistic with the current building layout)
2.	A computer lab for high-performance programs.
3.	Add way more printers.
4.	Additional study/work spaces.
5.	Better tables in the downstairs common area would be beneficial.
6.	Bigger seats and desks in Segner Auditorium. There's also no real place that can be used as a meeting space.
7.	Francis Hall could be improved by having the building be open all the time including weekends.
8.	Francis Hall could be improved by making sure there are a sufficient number of printers that are working properly at all times.
9.	Francis Hall could be improved by providing a place to grab lunch instead of having to leave the building.
10.	Francis Hall needs more room for studying and work out side of class. if you are not their early, it's nearly impossible to find a place to work.
11.	Having more study rooms.

Table 46	5. Fall 2020: Student Responses to the Question: "What About Francis Hall Could Be Improved?"
Student	Comment
12.	Having staplers more readily available to students.
13.	I can not think of anything that could be improved about Francis Hall.
14.	I can't think of anything that could be improved.
15.	I cannot think of anything due to not being in the building at all this semester.
16.	I did not think there needed to be improvements.
17.	I do not believe Francis Hall needs very much improvement. The one suggestion is that more seating with power supplies could be provided for working out of class.
18.	I do not have any suggestions
19.	I don't feel there is any things that could be improved the environment and the professor are awesome.
20.	I don't know if there is anything that should change. It has been great!
21.	I don't think anything needs to be improved
22.	I don't think Francis Hall needs any improvements. The layout helps students engage with one another and during class. It is up to date in my opinion and the study rooms are perfect size.
23.	I think Francis Hall is an excellent building, especially for COSC majors. It cannot be helped that it does not have a lot of study/work areas. It is a small building. Response disregards Covid-19.
24.	I think Francis Hall might be becoming too small for our department. If possible, an expansion project would be monumental for the department!
25.	I think it is perfect.
26.	I think one thing that could be improved may be the printers. They were sometimes hit or miss on if they would work.

Table	46. Fall 2020: Student Responses to the Question: "What About Francis Hall Could Be Improved?"
Student	Comment
27.	I think there are too many students for Francis Hall now. Francis Hall just seems cluttered and congested. An expansion may be neccessary to accomdate all the incoming students. I also think that more study sapces should be available. I frequently used the study rooms on the second floor but I believe there should be more.
28.	I think there needs to be more sitting area for students to study
29.	I truly enjoyed it all
30.	I wish the seating would have more space in the lecture hall.
31.	I wish there was more/better group study space, the rooms on the second floor would quickly fill up. the two "private" small study rooms were very nice as well but they were often full. I know there's not a lot of extra room in Francis Hall but I really feel that would help.
32.	I would have liked if there were receptacle outlets in the auditorium as I often did not have time in between classes to fully charge my computer before needing to take notes.
33.	I would lean towards more seating for study groups.
34.	I would say that we could use a bigger lounge area for the students so that more students can study and interact with each other.
35.	I would say the size of the study rooms. They are always packed full.
36.	Improvements on Francis Hall has never crossed my mind. Everything works as it should in the building and I have never had any problems with Francis Hall in my two years there.
37.	Increase of study rooms for students to work together in
38.	Lacks work space for groups. I'd say tear down the classroom wall in front of the study space on the second floor and turn that whole area into open seating tables. I only had one class in there in 5 years anyways. That classroom is ugly and doesn't even have windows anyways, who needs it.
39.	Larger study areas and better printers

Table 4	6. Fall 2020: Student Responses to the Question: "What About Francis Hall Could Be Improved?"
Student	Comment
40.	Make Francis available past 10pm
41.	Making the card readers and printers up to date.
42.	more common study areas
43.	More Computers
44.	More designated study areas
45.	More group areas and a computer lab/ print room
46.	More office areas for faculty. While the professors went far and beyond making me feel welcome, my communication towards more sensitive subject matter was stifled when another professor was present.
47.	More often than not we would have to use to printers at Langford because the ones in Francis Hall were out of service or did not provide the quality needed for assignments.
48.	More study rooms.
49.	More study spaces
50.	More study spaces to collaborate with peers, especially during the semesters of Estimating I, Estimating II, and Project Management. Also, Segner Auditorium was always hot.
51.	More up-to-date study spaces
52.	n/a
53.	N/a
54.	N/A
55.	Not enough available study/work spaces for students who are passing the time in between classes

Table 46. Fall 2020: Student Responses to the Question: "What About Francis Hall Could Be Improved?"	
Student	Comment
56.	Not much
57.	Nothing
58.	Nothing comes to mind.
59.	Nothing that I can think of although I do like the idea of offering tours of the building so students can get to see all of the exposed services that are behind glass.
60.	Nothing that I know of.
61.	Nothing.
62.	Possible to get more study rooms along with more tv's to work on bigger projects like estimating and project management.
63.	printers
64.	Segner auditorium needs to have Test and balance run for it again. It is either to hot or too cold. It has its own air handler and it still doesn't seem right to me.
65.	some of the monitors didn't work in some of the labs. the lack of study spaces in Francis Hall
66.	Sometimes, the first floor of Francis Hall gets loud and distracting when in class.
67.	Study Areas
68.	The air conditioning in Segner is could be improved.
69.	The air conditioning.
70.	The amount of group study places could be an improvement. At times, my teams would not be able to find a room that allowed the peace the meeting required due to having filled rooms or a loud area of the hallway/lobby.
71.	The classrooms, make them more spacious.

Table 46. Fall 2020: Student Responses to the Question: "What About Francis Hall Could Be Improved?"	
Student	Comment
72.	The group study rooms could be expanded or renovated to allow more students to have the opportunity to use it.
73.	The tables in Segner Hall could be bigger. It can be difficult to take a test on those small tables.
74.	The terrible smelling hand sanitizer. I have to wash my hands after I sanitize them to get the smell off.
75.	We need more space! More study space in particular! Or, let fewer people into our program and do no allow USAR students! The building is too crowded.

Table 47. Fail 2020: Student General Comments	
Student Response	Comment
1.	Cater more to transfer and first generation students.
2.	Excellent faculty and curriculum. It felt like a family hereAreas of Improvement- I think the COSC program could place a greater emphasis on research to promote COSC graduate studies. Point blank, a Master's in construction science does not seem as beneficial as an MBA. Similarly, there is not much light shone on the horizon of construction knowledge. There is not much diversity in the pursuit of industry sectors outside of commercial construction. Similarly, I would appreciate a class (abstract oriented seems most feasible) towards the end of our degree to better combine the knowledge and skills we acquired during our studiesAreas of Excellence- The industry connections that the COSC program provides is incredible. I feel that this bridge will ensure mutual sophistication of the industry at large. I am eager to see this dynamic more represented in the specialty realm as the specialty sector approaches greater refinement, a greater economies of scale and an even more increasing economic demand. The faculty was far beyond excellent. I was not expecting small classes with professors that gave so much to the program and their students. They have extended so much help to the students' success both inside and outside of the classroom. The students. I am not sure what it is, but I do not think I found one student I would not trust in the upcoming trenches. The leadership held by the COSC department maintained a focused and energized culture. I remember Professor Eustace's last class. I was working up the courage to ask the class for a round of applause towards his career even though I was just one fish in one stream. You can imagine how appreciative I was when Dr. Suermann came in and made the announcement. Thank you to the Construction Science Department.
3.	Excellent program full of wonderful people. I truly enjoyed my time in the program and learned an enormous amount about both construction but also myself. I hope to see the program grow and continue developing students into the next wave of construction professionals. I would like to thank everyone for their help and support of all the students and I wish you all well.
4.	Great program and the best university in the country!
5.	Great Program!! Going to miss everyone associated with the department.
6.	I am truly grateful to have found this program and the relationships I have made with students and professors will last a long time.

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Table 47. Fall 2020: Student General Comments	
Student Response	Comment
7.	I believe that changing from engineering to construction science was the best decision I have made in my life. Thank you for such a great experience I look forward to seeing where this career takes me in the future.
8.	I believe that this program is very solid. The only thing I would change about the program is to include more superintendent styled classes.
9.	I believe the COSC program here is excellent, there are e few shortcomings but overall, I have been very impressed!
10.	I had a very enjoyable time being a part of the COSC department
11.	I have deeply enjoyed my time here in the COSC Department and highly recommend this program to anyone that I can. I believe the faculty cares deeply for students' personal and professional success. Thank you.
12.	I just want to thank the whole department for a great experience and a time to remember. I will cherish these memories with all the students, professors, and faculty.
13.	I love the program. But, there are too many students and far too many unqualified students. We need a larger building with more teachers or fewer students. ' I learned a ton and really enjoyed my time here.
14.	I really did enjoy the COSC program but I feel like there's several changes that need to be made to the coursework and classes. There's lots of repeat classes that are a waste of time and could be implemented with classes that would be more beneficial. There need to be more classes that teach about the different industries in construction such as heavy highway, residential, and industrial. It shouldn't be just about commercial.
15.	I really enjoyed the program. My time here definitely flew by. Transferring into the program was by far the best decision that I made while at Texas A&M. Coming into college I had never heard of COSC so I just started out in engineering like some of my friends. Keep up the hard work.
16.	I think the addition of some courses on civil construction would be very useful
17.	I thoroughly enjoyed being a part of the COSC program at A&M. I believe the education I received is superior to that of any other university's and the connections I have made will last a lifetime. Thank you for everything.

Table 47. Fall 2020: Student General Comments	
Student Response	Comment
18.	I was given a very thorough learning experience. Upon going on my internship I knew almost every detail to every experience going on. I am very fortunate to have been given this experience. I enjoyed mostly all classes, however, I believe surveying and structures could be reduced or eliminated. All of the professors truly care and want to help.
19.	I was offered a position at HITT Contracting after interning with them last semester. They offered me \$65,000 + \$500 a month after the internship but I wanted to wait until after the career fair to finalize my post-graduation plans. The position was in Houston, TX. HITT said they were fine with it so I called them back after the career fair and they said that offer is no longer on the table. I applied for other positions and now I am waiting to hear back.
20.	I would recommend construction science to anyone that is interested.
21.	I would suggest trying to lure high school prospective students who are interested in Engineering. I attended an engineering academy all throughout high school, because I thought engineering was actually building things. It wasn't until I met someone from Construction Science that I realized it was only design, and COSC was what I wanted to do all along.
22.	Loved my time here overall. A few professors and courses need careful consideration.
23.	N/A
24.	Overall learned a lot to help my future and thank God for the career fair and internships.
25.	Overall, great program! Just some of the professors could improve.
26.	Overall, I believe I made the right choice in changing my major. COSC has a great program that could be improved in a few areas, but has the best faculty I have seen at Texas A&M.
27.	Overall, I think that if a student is willing to put in the effort, there is a wealth of knowledge to learn from. I gained a healthy portion of my confidence through my time at Texas A&M University. I am proud to be an Aggie from the Construction Science department.

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28.	Overall, the construction science program was a phenomenal experience. What I would recommend is hiring more people that have real-world experience and focusing a bit more on the field side of construction and encourage students to complete internships during the summer breaks. The two strongest factors of this program are the internships and the Professors that have real-world experience. I came in as a first-generation student and was able to establish relationships with my professors, and make lifelong friends. I also appreciate the hard work that Shelley puts in for us and the work that Professor Hernan and Mrs. Sodelak puts in to making the career fairs possible.
29.	Please try to have more "field" experience put into classes. Almost the entire curriculum is based around office management tasks. The only way I learned hands on construction experience and how to deal with subcontractors was through the internship. I know that some students did not receive any field experience on their internships so I believe they need an additional way to learn about it. Even if it is just a professor who was a superintendent for a number of years telling stories it adds more practical learning than a lecture class.
30.	Shout-out to Professors Boldt, Palmer, Fickel and Simms. They are some of the highest quality professors you could hope to have as a student. Also, a shout-out to Shelley Smith for the support role she plays as I don't think she gets enough appreciation for her administrative role.
31.	Thank you to everyone for their time and effort they spent in ensuring myself along with every other COSC student received the best learning and guidance throughout our four years at Texas A&M.
32.	The best program at A&M. I feel very fortunate to have been accepted into the department. Very enjoyable and relevant classes. Excellent Instructors and faculty (see COSC strengths section) who care about your success and help however they can. Nothing but positive interactions with advisors. I am extremely thankful for this opportunity and experience and am so proud to be a graduate of Construction Science. Cosci Brosci !!
33.	The Construction Science program has done a great job with us and I want to thank everyone that was a part of my experience here at Texas A&M!

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34.	The COSC program is one of the few majors in A&M that captures the essence of what it really means to be a "Texas A&M AGGIE". Although not perfect, the program definitely has its advantages in providing its students with great opportunities after graduation and I have not met one post graduate that has yet to find a great paying and fulfilling beginning to their career. I would recommend this program to anyone and in the past year I have persuaded one high school student to apply for this program and also led a friend of mine to switch their major to this one.
35.	The program in all is very helpful. I was able to meet a lot of new friends and really enjoyed mostly all my professors. I can tell they care about our futures, and not just there to teach and go home at the end of the day.
36.	When comparing my education to other school's COSC programs, none of them even come close to the level of content we learn here at Texas A&M.
37.	Work on professors coming out of the industry so they know how to teach. Surveying is pointless and should be an elective or thrown out altogether. More leadership and team building classes should be required because we will work in teams for the rest of our lives.