

## Construction Management Alumni Survey Results 2019-2020

### 65 Respondent's

NOTE: Not all respondents answered every question

<b>1</b>	The year you received your degree in the CMGT program from CSU Chico	<b>2009 or before</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
		1	13	7	7	6	9
		1.5%	20.0%	10.8%	10.8%	9.2%	13.8%
		<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>No Response</b>
		4	12	0	0	0	6
		6.2%	18.5%	0.0%	0.0%	0.0%	9.2%

<b>2</b>	What was your academic status upon entering CSU, Chico	<b>Freshman</b>	<b>Community College Transfer</b>	<b>4-Year College Transfer</b>	<b>Other</b>
		31	23	4	1
		52.5%	39.0%	6.8%	1.7%

<b>3</b>	How many total years of college did it take for you to attain your degree in Construction Management?	<b>4</b>	<b>5</b>	<b>6</b>	<b>&gt;6</b>
		12	30	13	4
		20.3%	50.8%	22.0%	6.8%

<b>4</b>	What is your current annual income	<b>&lt; \$41K</b>	<b>\$41-\$60K</b>	<b>\$61-\$80K</b>	<b>\$81-\$100K</b>	<b>&gt;\$100K</b>
		3	1	4	10	41
		5.1%	1.7%	6.8%	16.9%	69.5%

<b>5</b>	In what sector of the industry are you employed?	<b>Commercial Building</b>	<b>Industrial</b>	<b>Heavy Civil</b>	<b>Residential / Multi-Family</b>	<b>Specialty (Sub-contractor)</b>	<b>Other</b>
		37	1	8	3	1	9
		62.7%	1.7%	13.6%	5.1%	1.7%	15.3%
	Other Includes: Public Utility, Public Municipality, Armed Forces						

<b>6</b>	In terms of your early career path development (first 5 years) please indicate any of the following event(s) your company funded/sponsored your participation (mark all that apply)	<b>Conferences</b>	<b>Workshops</b>	<b>Graduate Studies</b>	<b>Other</b>
		37	38	3	7
		43.5%	44.7%	3.5%	8.2%
	Other Includes: QSP, PMP, AACE, DBIA				

<b>7</b>	How many professionally-related educational opportunities do you attend annually	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>&gt;4</b>
		14	16	16	4	5	3
		24.1%	27.6%	27.6%	6.9%	8.6%	5.2%

<b>8</b>	Please indicate how many community groups do you currently participate with.	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>&gt;4</b>
		29	16	8	3	0	2
		50.0%	27.6%	13.8%	5.2%	0.0%	3.4%

<b>9</b>	How often do you present information to upper management, clients (potential and current), investors?	<b>Daily</b>	<b>Weekly</b>	<b>Monthly</b>	<b>Annually</b>	<b>Seldom</b>	<b>Never</b>
		17	23	9	2	1	7
		28.8%	39.0%	15.3%	3.4%	1.7%	11.9%

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### Student Learning Outcomes

	In order to help us understand the level of student preparedness you felt entering the workforce, please respond to the following Student Learning Outcomes (SLO) mandated by our accrediting body, the American Council for Construction Education (ACCE)	Strongly Disagree (1)	Disagree (2)	Neutral (3)	Agree (4)	Strongly Agree (5)	Average Score 1-5 Scale
10	1. Create written communications appropriate to the construction discipline.	1 1.9%	4 7.4%	14 25.9%	24 44.4%	11 20.4%	3.74
11	2. Create oral presentations appropriate to the construction discipline.	2 3.7%	1 1.9%	12 22.2%	31 57.4%	8 14.8%	3.78
12	3. Create a construction project safety plan.	4 7.4%	15 27.8%	16 29.6%	16 29.6%	3 5.6%	2.98
13	4. Create construction project cost estimates.	0 0.0%	5 9.3%	17 31.5%	27 50.0%	5 9.3%	3.59
14	5. Create construction project schedules.	0 0.0%	4 7.4%	12 22.2%	26 48.1%	12 22.2%	3.85
15	6. Analyze professional decisions based on ethical principles.	1 1.9%	5 9.3%	5 9.3%	26 48.1%	17 31.5%	3.98
16	7. Analyze construction documents for planning management of construction processes.	0 0.0%	5 9.4%	14 26.4%	20 37.7%	14 26.4%	3.81
17	8. Analyze methods, materials, and equipment used to construct projects.	1 1.9%	5 9.4%	12 22.6%	27 50.9%	8 15.1%	3.68
18	9. Apply construction management skills as a member of a multidisciplinary team.	1 1.9%	4 7.5%	7 13.2%	28 52.8%	13 24.5%	3.91
19	10. Apply electronic based technology to manage the construction process.	1 1.9%	3 5.6%	11 20.4%	24 44.4%	15 27.8%	3.91
20	11. Apply basic surveying techniques for construction layout and control.	6 11.3%	8 15.1%	26 49.1%	10 18.9%	3 5.7%	2.92
21	12. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.	0 0.0%	5 9.4%	12 22.6%	25 47.2%	11 20.8%	3.79
22	13. Understand construction risk management.	0 0.0%	9 17.0%	13 24.5%	25 47.2%	6 11.3%	3.53
23	14. Understand construction accounting and cost control.	2 3.8%	8 15.1%	13 24.5%	23 43.4%	7 13.2%	3.47
24	15. Understand construction quality assurance and control.	4 7.5%	7 13.2%	20 37.7%	16 30.2%	6 11.3%	3.25
25	16. Understand construction project control processes.	2 3.8%	8 15.1%	19 35.8%	19 35.8%	5 9.4%	3.32
26	17. Understand the legal implications of contract, common, and regulatory law to manage a construction project.	1 1.9%	2 3.8%	12 22.6%	20 37.7%	18 34.0%	3.98
27	18. Understand the basic principles of sustainable construction.	1 1.9%	5 9.4%	16 30.2%	16 30.2%	15 28.3%	3.74
28	19. Understand the basic principles of structural behavior.	0 0.0%	1 1.9%	10 18.9%	28 52.8%	14 26.4%	4.04
29	20. Understand the basic principles of mechanical, electrical and piping systems.	4 7.5%	1 1.9%	17 32.1%	24 45.3%	7 13.2%	3.55

30	With regards to SLO 11 - Apply Basic Surveying Techniques for Construction Layout and Control. Please indicate which of the following survey instruments should graduates be able to utilize to perform construction layout and control (mark all that apply).	Building Level	Total Station	Laser Level
		33	31	36
		33.0%	31.0%	36.0%

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### Curriculum Content

	Below are Construction Management specific subject areas that you took while enrolled in the CMGT program. Please rate the value of each of the following courses as it relates to the value of your educational experiences?	Not Valuable At All (1)	Seldom Valuable (2)	Somewhat Valuable (3)	Valuable (4)	Highly Valuable (5)	Average Score 1-5 Scale
31	CMGT 100 - Concepts of Construction	2 4.2%	5 10.4%	10 20.8%	15 31.3%	16 33.3%	3.92
32	CMGT 101 - Construction Career Prep (elective)	1 2.3%	3 6.8%	11 25.0%	19 43.2%	10 22.7%	4.08
33	CMGT 110 - Construction Graphics	3 6.1%	4 8.2%	10 20.4%	15 30.6%	17 34.7%	3.88
34	CMGT 135 - Construction Materials and Systems	0 0.0%	1 2.1%	6 12.5%	19 39.6%	22 45.8%	4.39
35	CMGT 210 - Analysis of Construction Drawings and Specifications	0 0.0%	1 2.2%	3 6.5%	14 30.4%	28 60.9%	4.65
36	CMGT 235 - Electrical and Mechanical Systems	2 4.0%	1 2.0%	8 16.0%	19 38.0%	20 40.0%	4.12
37	CMGT 270 - Building Information Modeling (elective)	2 4.3%	7 15.2%	9 19.6%	16 34.8%	12 26.1%	3.86
38	CMGT 275 - Architectural History (elective)	12 32.4%	12 32.4%	5 13.5%	5 13.5%	3 8.1%	3.33
39	CMGT 330 - Principles of Soil Mechanics and Foundations	0 0.0%	0 0.0%	7 14.3%	17 34.7%	25 51.0%	4.43
40	CMGT 332 - Construction Methods Analysis	3 6.1%	3 6.1%	9 18.4%	14 28.6%	20 40.8%	4.00
41	CMGT 335 - Construction Equipment	0 0.0%	3 6.0%	6 12.0%	19 38.0%	22 44.0%	4.24
42	CMGT 340 - Principles of Statics	1 2.1%	7 14.6%	5 10.4%	14 29.2%	21 43.8%	4.10
43	CMGT 345 - Mechanics of Materials	0 0.0%	8 16.7%	4 8.3%	17 35.4%	19 39.6%	4.10
44	CMGT 360 - Construction Project Management	0 0.0%	4 7.8%	2 3.9%	21 41.2%	24 47.1%	4.27
45	CMGT 380 - Green Building Practices and LEED Certification (elective)	2 5.0%	7 17.5%	9 22.5%	15 37.5%	7 17.5%	3.96
46	CMGT 440 - Temporary Structures	1 2.2%	5 10.9%	7 15.2%	15 32.6%	18 39.1%	4.16
47	CMGT 450 - Building Estimating	1 2.2%	1 2.2%	6 13.0%	15 32.6%	23 50.0%	4.43
48	CMGT 455 - Construction Cost Management	1 2.2%	1 2.2%	5 10.9%	22 47.8%	17 37.0%	4.33
49	CMGT 457 - Project Control and Scheduling	0 0.0%	0 0.0%	6 13.6%	16 36.4%	22 50.0%	4.59
50	CMGT 458 - Heavy Construction Estimating	2 4.4%	6 13.3%	7 15.6%	17 37.8%	13 28.9%	4.00
51	CMGT 460 - Legal Aspects of Construction	0 0.0%	2 4.3%	5 10.9%	8 17.4%	31 67.4%	4.63
52	CMGT 462 - Construction Contracts	0 0.0%	3 7.7%	3 7.7%	12 30.8%	21 53.8%	4.71

55	Please indicate your level of preparedness, as a result of your education at CSU, Chico, to enter the construction industry upon graduation?	Not at all prepared (1)	Slightly prepared (2)	Neutral (3)	Very prepared (4)	Completely prepared (5)	Average Score 1-5 Scale
		0	5	8	30	8	3.80
		0.0%	9.8%	15.7%	58.8%	15.7%	

56	Please indicate your overall rating of the program curriculum relevance to the construction industry?	Not relevant (1)	A little relevant (2)	Somewhat relevant (3)	Quite a bit relevant (4)	Very relevant (5)	Average Score 1-5 Scale
		0	2	7	32	10	3.98
		0.0%	3.9%	13.7%	62.7%	19.6%	

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<b>57</b>	<b>Please list the strengths of the Construction Management Program:</b>
	Data field corrupt for Spring 2020.

<b>58</b>	<b>Please list any areas needing improvement in the Construction Management Program:</b>
	More specific items for CM students that want to be superintendents not PMs
	I believe that the Chico state construction management program should focus on the implementation of the most up to date industry leading technologies, that are designed to streamline the building process, into all of its classes. I feel some of the classes put me ahead of the industry in the particular area, but I believe all of the courses should do the same. For example the survey classes, design, estimating & project management courses could have used better technologies in my opinion.
	I believe there should have been more focus on heavy civil construction work. Emphasis on soils, equipment, layout/surveying would be helpful. GPS equipment was not listed, but GPS is a huge part of the heavy civil industry.
	I would suggest having a class, or directing a class to build a project (figuratively) from start to finish during the semester. Almost like a Reno competition style where there are deliverables, schedule issues, project proposal, etc. I feel I learned a lot of skills in the program, but there are a lot more day to day skills that could be taught and will make Chico CM students stand out during internships and as new grads. Examples: 1) Teach how to write a professional e-mail listing action items, deadlines etc. 2) Have students find issues in drawings and practice writing clear concise, detailed RFIs. 3) Practice mock coordination meetings with typical jobsite coordination issues such as common ADA issues, framing conflicts, floor transition conflicts, etc. 4) Practice reviewing submittals against drawings and specs and finding issues or missing information. 5) Scoping out a work category and then comparing sub bids to ensure all items are included.
	Increase focus on the tasks of an entry level project engineer at a large construction company. I felt that we got a good sense of this on the heavy civil side but not as much on the commercial construction side. Examples include: review of commercial RFIs, relevant trade partner scope (HVAC, Plumbing, Electrical).
	Construction Ethics
	Construction planning class could of used improvement when I went through. the class seemed to be based on BIM more than planning. it would of been nice to tie it to a set of plans and talk about project phasing and locations of construction and laydown yards/parking. they could of brought in phasing and the cost associated with phasing work .
	How to write RFI's, review and submit Submittal's, managing different trades and looking for the answers in the plans/specs/ etc... This might have been covered in classes but I do not really remember it.
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	Knowledge of how to read plans and specifications.

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<b>59</b>	<b>Please list any specific feedback you have on the Construction Management curriculum:</b>
	Supporting students after graduation should be granted to all, not only to the privilege. All lives matter. Age, color, ethnicity, or sex should not be the guidance for whom should get help to find a job and who should not.
	CMGT 135, 210, & 450 should be (2) semester long classes. There is so much to learn in one semester, it would benefit in the long run. Break up Soils and Surveying into (2) classes as well, a lot of information is condensed into (1) class.
	Continue internship programs and ASC Competitions - best platform for education
	More emphasis needs to be placed on plan reading, estimating and cost management modeling. Reduce the emphasis on BIM coursework. The percentage of the workforce that is going to truly interact with the model is small, especially in construction (architecture and engineering is huge, not CM).
	they need more teachers with work experience in all trades, when I got out it felt very geared towards commercial and not so much effort put in towards any other pathway.
	a number of classes were being taught by professors that were out of sync with industry and taught in a way or material which was not as beneficial as it should have been. The program needs to get and retain quality teachers and not rely on some of the tenured faculty which are not up to date on actual industry.
	I would like to know the "overview" of the program and see what I learned in the field and how it relates to the curriculum.
	I learned a lot and always speak highly of the Chico CM program. The suggestions above are because those are the things I learned on the job in my first year that may have been discussed in classes, but weren't necessarily incorporated into projects or activities that stuck with me.
	Get rid of the engineering classes they have almost no relevance. More hands on lab type class would have been helpful.
	Although I had a great teacher, the temporary structures/physics class was probably one of the least useful classes I took. Since I ended up working for a subcontractor I wish there had been more classes for specific trades instead of just one MEP class. Although O'Bannon taught it well.
	Great mix of business, science, and CM courses. 10 years later I still use my foundation of accounting, finance, law, physics, statics, scheduling etc. All around great balance.
	I believe that there should be an emphasis on learning Spanish. I use it every day to communicate with the field workers and it is probably one of the most helpful skills that I have.
	All project management and legal classes were most helpful to me. I would say more specific classes on RFI/submittal processes and contract/legal would be helpful as this is the first step to most companies.
	Increased focus on industrial construction. Learning about the different welding processes, welding procedures, and materials. Shop time with hands on work with these machines and processes would be beneficial. Learning of some basic trade skills (bolted connections, welding, pipe fit up, hydro testing, basic electrical wiring, hands on rigging, motor alignments, DDC controls). This could be an elective class or incorporated into lab time with current classes.
	None, great program and excellent comradery. Still speak to a lot of guys from my classes.

<b>60</b>	<b>Please share any other comments/feedback you have regarding the Construction Management program:</b>
	Too much dead weight, not enough experience from the young professors, and too much focus on BIM.
	get and retain quality teachers who had careers in the industry. tenured professors have been out of industry for too long and their dated methods of teaching and material hurts the program.
	Great program. I hope it continues to lead the industry for years to come.
	Keep up the good work and keep putting on a program I can proudly represent!
	Overall all a great program that set us up for success and gave us every opportunity in the world to have a job by graduation!
	Great program with great people.
	Probably the best major you can have! Great job!
	My experience at CSU Chico was some of the best years of my life. I have a very successful career as a result of the degree, however I have even more valuable relationships and memories as a result of the comradery of the student in the program.
	I don't believe I technically graduated, I had units left I was unable to wait a summer for to complete and come back in fall. I was starting a family and didn't have the time. I've since started my own business and was able to apply my years in the program to the CSLB educational requirements and work experience to get my license. It