

Construction Management Employers Survey Results 2017-2018

76 Respondent's

NOTE: Not all respondents answered every question

2	What type of work does your company perform?	Commercial Building	Industrial	Heavy Civil	Residential	Specialty (Sub-contractor)	Other
		32	14	20	4	13	10
		34.4%	15.1%	21.5%	4.3%	14.0%	10.8%
Other Includes: Consulting, Marine, Multi-Family, Rail, Solar							

3	Are you a CSU, Chico CMGT graduate?	Yes	No
		32	22
		59.3%	40.7%

4	Approximate number of CSUC CMGT graduates you supervise?	1-5	6-10	11-25	26-50	More than 50
		35	11	7	0	1
		64.8%	20.4%	13.0%	0.0%	1.9%

5	Does your organization have a rotation or other type of training for new CMGT graduates?	Yes	No
		50	5
		90.9%	9.1%

6	Does your organization provide support for continuing education of employees (including grad school)?	Yes	No
		50	4
		92.6%	7.4%

7	Does your organization encourage employees to seek a contractors' license?	Yes	No
		7	47
		13.0%	87.0%

8	Does your organization have a matching gift program for charitable donations by employees?	Yes	No
		25	30
		45.5%	54.5%

In order for our degree program to maintain currency with the software programs used in the industry, and specifically by your firm, please indicate which are your primary software application for each of the following.

9	Estimating	HCSS	OST	Bluebeam	Excel	Timberline	WinEst
		15	12	6	9	4	5
		21.7%	17.4%	8.7%	13.0%	5.8%	7.2%
		AccuBid	Sage	BuildConnect	PlanSwift	QuikPen	Other
		3	3	3	2	2	5
		4.3%	4.3%	4.3%	2.9%	2.9%	7.2%

10	Scheduling	P6	MS Project	SureTrak	Vplanner	Asta	Excel
		36	20	2	2	2	1
		57.1%	31.7%	3.2%	3.2%	3.2%	1.6%

11	Project Management	Procore	Vista/Viewpoint	HeavyJob	In-House	Prolog	Excel
		13	7	5	5	4	2
		36.1%	19.4%	13.9%	13.9%	11.1%	5.6%

12	Modeling	Revit	AutoCAD	Navisworks	Sketchup	Agtek	Other
		20	6	6	5	3	5
		44.4%	13.3%	13.3%	11.1%	6.7%	11.1%
	Other Includes: Bentley, Tekla, TerraModel						

13	Paperless Workflows	Procore	Bluebeam	CMIC	Vista/Viewpoint	InEight	Other
		12	6	3	3	2	6
		37.5%	18.8%	9.4%	9.4%	6.3%	18.8%
	Other Includes: Citrix, Prolog, PlanGrid, QuickBasic, Internal						

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In order for our degree program to maintain currency with the software programs used in the industry, and specifically by your firm, please indicate which are your primary software application for each of the following.

14	Punchlist Work	Procore	Bluebeam	PlanGrid	Excel	BIM360	Vista/Viewpoint
		9	7	7	3	2	3
		25.7%	20.0%	20.0%	8.6%	5.7%	8.6%
	Other Includes: Citrix, Prolog, CMiC, inEight	Other					
		4					
		11.4%					

15	Construction Drawing Management	PlanGrid	Bluebeam	Procore	Other		
		12	12	8	7		
		30.8%	30.8%	20.5%	17.9%		
	Other Includes: HCSS, SmartBidNet, Excel, In-House, SharePoint, Vista/Viewpoint, InEight						

16	Others (Please Specify)	Results of question have been omitted as the responses were redundant to questions 9-15					

Student Learning Outcomes

	Our accreditation agency, The American Council for Construction Education, has established Student Learning Outcomes (SLO) that set the minimal skills and knowledge Chico State Construction Management students should possess upon graduation. In order for our degree program to determine the level of our student's preparedness, please rate how the students you supervised based upon the following skill sets.	Very Unprepared (1)	Unprepared (2)	Average (3)	Prepared (4)	Very Prepared (5)	Average Score 1-5 Scale
17	1. Create written communications appropriate to the construction discipline.	0 0.0%	1 2.3%	11 25.0%	29 65.9%	3 6.8%	3.77
18	2. Create oral presentations appropriate to the construction discipline.	0 0.0%	0 0.0%	9 20.5%	28 63.6%	7 15.9%	3.95
19	3. Create a construction project safety plan.	0 0.0%	2 4.7%	27 62.8%	13 30.2%	1 2.3%	3.30
20	4. Create construction project cost estimates.	0 0.0%	0 0.0%	18 40.9%	25 56.8%	1 2.3%	3.61
21	5. Create construction project schedules.	0 0.0%	1 2.3%	19 44.2%	19 44.2%	4 9.3%	3.60
22	6. Analyze professional decisions based on ethical principles.	0 0.0%	0 0.0%	8 18.2%	28 63.6%	8 18.2%	4.00
23	7. Analyze construction documents for planning management of construction processes.	0 0.0%	0 0.0%	10 23.3%	29 67.4%	4 9.3%	3.86
24	8. Analyze methods, materials, and equipment used to construct projects.	0 0.0%	1 2.3%	12 27.9%	24 55.8%	6 14.0%	3.81
25	9. Apply construction management skills as a member of a multidisciplinary team.	0 0.0%	0 0.0%	7 15.9%	26 59.1%	11 25.0%	4.09
26	10. Apply electronic based technology to manage the construction process.	0 0.0%	0 0.0%	7 16.3%	22 51.2%	14 32.6%	4.16
27	11. Apply basic surveying techniques for construction layout and control.	0 0.0%	6 14.3%	20 47.6%	14 33.3%	2 4.8%	3.29
28	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%	1 2.4%	17 40.5%	21 50.0%	3 7.1%	3.62
29	13. Understand construction risk management.	0 0.0%	1 2.3%	23 53.5%	17 39.5%	2 4.7%	3.47
30	14. Understand construction accounting and cost control.	1 2.3%	2 4.7%	18 41.9%	20 46.5%	2 4.7%	3.47
31	15. Understand construction quality assurance and control.	1 2.4%	0 0.0%	19 45.2%	18 42.9%	4 9.5%	3.57
32	16. Understand construction project control processes.	1 2.3%	2 4.7%	16 37.2%	22 51.2%	2 4.7%	3.51
33	17. Understand the legal implications of contract, common, and regulatory law to manage a construction project.	0 0.0%	0 0.0%	17 39.5%	25 58.1%	1 2.3%	3.63
34	18. Understand the basic principles of sustainable construction.	0 0.0%	4 9.8%	14 34.1%	20 48.8%	3 7.3%	3.54
35	19. Understand the basic principles of structural behavior.	0 0.0%	0 0.0%	16 38.1%	26 61.9%	0 0.0%	3.62
36	20. Understand the basic principles of mechanical, electrical and piping systems.	0 0.0%	1 2.4%	21 50.0%	20 47.6%	0 0.0%	3.45

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Curriculum Content

Please rate the perceived value of each of the following Construction Management courses with the understanding that you must assume the content is based upon the title of the course.		Not Valuable At All (1)	Seldom Valuable (2)	Somewhat Valuable (3)	Valuable (4)	Highly Valuable (5)	Average Score 1-5 Scale
37	CMGT 100 - Concepts of Construction	0 0.0%	1 2.3%	3 7.0%	23 53.5%	16 37.2%	4.26
38	CMGT 101 - Construction Career Prep (elective)	0 0.0%	6 14.0%	4 9.3%	18 41.9%	15 34.9%	3.98
39	CMGT 110 - Construction Graphics	0 0.0%	4 9.3%	16 37.2%	18 41.9%	5 11.6%	3.56
40	CMGT 135 - Construction Materials and Systems	0 0.0%	0 0.0%	4 9.3%	25 58.1%	14 32.6%	4.23
41	CMGT 210 - Analysis of Construction Drawings and Specifications	0 0.0%	0 0.0%	1 2.3%	15 34.9%	27 62.8%	4.60
42	CMGT 235 - Electrical and Mechanical Systems	1 2.3%	5 11.6%	9 20.9%	12 27.9%	16 37.2%	3.86
43	CMGT 270 - Building Information Modeling (elective)	2 4.7%	5 11.6%	10 23.3%	20 46.5%	6 14.0%	3.53
44	CMGT 275 - Architectural History (elective)	9 20.9%	16 37.2%	12 27.9%	6 14.0%	0 0.0%	2.35
45	CMGT 330 - Principles of Soil Mechanics and Foundations	2 4.7%	3 7.0%	10 23.3%	17 39.5%	11 25.6%	3.74
46	CMGT 332 - Construction Methods Analysis	0 0.0%	1 2.3%	7 16.3%	24 55.8%	11 25.6%	4.05
47	CMGT 335 - Construction Equipment	0 0.0%	2 4.7%	13 30.2%	17 39.5%	11 25.6%	3.86
48	CMGT 340 - Principles of Statics	0 0.0%	2 4.7%	17 39.5%	19 44.2%	5 11.6%	3.63
49	CMGT 345 - Mechanics of Materials	0 0.0%	1 2.3%	14 32.6%	20 46.5%	8 18.6%	3.81
50	CMGT 360 - Construction Project Management	0 0.0%	0 0.0%	1 2.3%	10 23.3%	32 74.4%	4.72
51	CMGT 380 - Green Building Practices and LEED Certification (elective)	3 7.0%	10 23.3%	13 30.2%	11 25.6%	6 14.0%	3.16
52	CMGT 440 - Temporary Structures	0 0.0%	3 7.0%	13 30.2%	20 46.5%	7 16.3%	3.72
53	CMGT 450 - Building Estimating	0 0.0%	0 0.0%	1 2.4%	9 21.4%	32 76.2%	4.74
54	CMGT 455 - Construction Cost Management	0 0.0%	0 0.0%	0 0.0%	7 16.3%	36 83.7%	4.84
55	CMGT 457 - Project Control and Scheduling	0 0.0%	1 2.3%	0 0.0%	6 14.0%	36 83.7%	4.79
56	CMGT 458 - Heavy Construction Estimating	1 2.3%	4 9.3%	13 30.2%	9 20.9%	16 37.2%	3.81
57	CMGT 460 - Legal Aspects of Construction	0 0.0%	0 0.0%	5 11.6%	11 25.6%	27 62.8%	4.51
58	CMGT 462 - Construction Contracts	0 0.0%	0 0.0%	3 7.1%	13 31.0%	26 61.9%	4.55

Please indicate the level of preparation demonstrated by the Chico State Construction Management graduate(s) you supervise.

59	Effective problem solvers	Not at all prepared (1)	A little prepared (2)	Somewhat prepared (3)	Quite a bit prepared (4)	Very prepared (5)	Average Score 1-5 Scale
		0 0.0%	1 2.3%	5 11.4%	26 59.1%	12 27.3%	4.11

60	Effective oral communicators	Not at all prepared (1)	A little prepared (2)	Somewhat prepared (3)	Quite a bit prepared (4)	Very prepared (5)	Average Score 1-5 Scale
		0 0.0%	0 0.0%	7 15.9%	24 54.5%	13 29.5%	4.14

61	Function effectively on multi-disciplinary teams	Not at all prepared (1)	A little prepared (2)	Somewhat prepared (3)	Quite a bit prepared (4)	Very prepared (5)	Average Score 1-5 Scale
		0 0.0%	0 0.0%	4 8.3%	21 43.4%	19 39.3%	4.34

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62	Please list the strengths of the Construction Management Program:
	Most graduates have several internships by graduation
	Teaches students how to solve problems
	be prepared for business as well as building
	great program, at Chico
	Overall basics is known. Real world will mold them
	Industry experienced professors with real world knowledge
	industry involved, via internships, hands-on style
	Well Rounded
	Overall preparedness is higher than those from other program
	Heavy Civil Based
	Very applicable for our work, good communicators
	Understanding the process to manage a job
	the kids are hard working and have a passion for the industry
	estimating, communication, problem solvers
	Graduates bring the basic tools and skills to their employer
	Realistic Expectations, Internship Placement, Hands-On Exper
	familiarity with CM
	Communication skills, work ethic, common sense, strong field
	Good grasp of common sense ideas
	Well rounded students generally excited about construction
	Keeping current with industry
	Dynamic Problem Solving, Contract understanding
	Able to integrate with construction teams
	great program, at Chico
	Team oriented, problem solvers, work well with craftspeople's
	Communication and overall construction knowledge/ understand
	Communication skills, exposure to construction practices
	Industry experienced professors
	Chris Souder
	Well rounded students. Self starters. Fun to work with
	well rounded grads
	Team players and generally fun to be around and work around
	Students are prepared to start careers following graduation
	Well rounded / good work life balance / very social
	Great students and professors, classes applicable to industry
	Diverse curriculum, great job opportunities
	team building, networking
	Contribute to Field Quickly With Knowledge of Methods
	Oral communication, construction process, scheduling
	Curriculum, Emphasis on job readiness, support of students
	focus on construction

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63	Please list any areas needing improvement in the Construction Management Program:
	Interest more students in working for subcontractors
	more business/contracts training
	Equipment and usage on projects
	Greater emphasis on basic entry level field Eng. skills
	More Faculty needed from the industry, pay needs to increase
	Increase the overall rigorousness of the courses
	Chico grads tend to change employers more often than others
	more estimating, scheduling, and equipment classes
	proactiveness and follow up
	oral communication - email is not an effective tool
	Need more relevant experience in faculty; not solely HC
	host a CM career fair; info sessions are expensive and ineffective
	Proposals, Practical management skills
	HeavyJob and HeavyBid training
	Students just simply don't know how to build after graduation
	Separate track between heavy civil and commercial
	Estimating, Reading Drawings
	More classes/education on heavy civil aspects of construction
	great program, at Chico
	Need more in-depth classes in Mechanical, Plumbing, Electrical
	More commercial/general construction classes, less heavy civil
	Understanding how things are built with practical skills
	Need more full time full professors to replace FERP's
	student awareness of industry - work hours, relocation, teams
	We are heavy industrial (niche market). Commercial not fit
	verbal communication
	Construction formalities (good grammar, MS excel skills, etc.
	Communication / Team Building / Customer Alignment
	More emphasis placed on commercial construction
	reading drawings and spec
	Written and Oral Communications
	Written Communication,

64	Please list any specific feedback you have on the Construction Management curriculum:
	We have found numerous high-character graduates
	I think you are doing a good job
	Need more experienced teachers to keep program running
	Working through on the curriculum committee. Need Survey to be brought back
	Working knowledge of layout & survey is beneficial
	bring back the survey course
	I have been very impressed with our chico grads
	Keep up with technology; this is where CSUC students shine
	career preparedness
	Students display strong real world common sense instincts
	Get rid of the old, useless architecture classes
	Separate track between heavy civil and commercial
	Continue to hold a high standard in the program
	great program, at Chico
	Need more in-depth classes in Mechanical, Plumbing, Electrical
	More commercial classes
	Infusing more subject matter experts from the industry
	Need to add curriculum centered around lean
	Internships. Great idea.
	Would like to see more heavy civil course work
	Continue to stay relevant to today industry
	Educate on Building Teams / Versus Building Buildings
	Assimilate to Field Work Quicker Than Most Programs!
	Would like to see modifications in assignments/tests over the years

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65	Please share any other comments/feedback you have regarding the Construction Management program:
	your graduates are well rounded and ready to work
	We love to recruit these kids, they are all hungry
	Great program with great teachers, keep it up
	Need more qualified (industry) faculty to instruct, need \$\$
	Great program leading to excellent opportunities!
	the kids have all been well rounded and willing to learn
	We have been successful in finding great employees at CSUC
	Separate track between heavy civil and commercial
	great program, at Chico
	Great program. Our recruits from Chico work out well.
	consistently producing top notch interns and full time employees
	Need to find replacements for retiring professors
	Program highly encourages internships and it shows
	Educate on ESOP Companies
	More connection/communication with employers for recruiting
	High Marks for Nuts-And-Bolts Construction Taught at Chico