# College of Continuing & Professional Studies

University of Minnesota

# CONSTRUCTION MANAGEMENT ANNUAL REPORT 2022

# **APPENDICES**

**Appendix A: Quality Improvement Plan** 

**Appendix B: Academic Quality Plan** 

**Appendix C: Annual Plan** 

# **APPENDIX A**

# University of Minnesota Construction Management Program Quality Improvement Plan

#### Academic Year 2021–2022

The University of Minnesota's reputation as a premier learning institution is well established, both nationally and internationally. The University's Construction Management program has also acquired an excellent reputation through our commitment to practical, applied instruction. Our program is grounded in current industry practices and technologies. It offers a multidisciplinary approach to the real issues facing construction managers. The program's Quality Improvement Plan outlines our process for continuous assessment and improvement of the program goals, objectives, curriculum, faculty, and resources.

#### **Overall Program Review**

Our staff meets more or less continually to review the overall program goals, objectives, and student learning outcomes. We strive to prepare our students to be future leaders in the industry. Our review includes:

- An assessment of the program to confirm adherence to ABET outcome-based standards under which we are being accredited separately for both Facility Management and Construction Management
- 2. A review of current industry trends and needs (at every Advisory Board meeting)
- 3. Feedback from the Advisory Board (at every Advisory Board meeting)
- 4. Feedback from faculty (once per semester as a group, then at every course review meeting, and more informally in one-on-one email correspondence)
- 5. Input and requests from current students (constantly received and discussed among staff)
- 6. Input from employers (at every Advisory Board meeting, and informally at every Career Fair)
- 7. Course review data from College of Continuing and Professional Studies Academic Technology and Design (ATD) unit (at every course review)
- 8. Graduation survey results (University-wide, every year)
- 9. Student Ratings of Teaching (SRTs) (every semester course offering)
- 10. Student Focus Groups (by invitation to all prospective graduates, spring every odd year)
- 11. Industry publications and research (as they occur—rarely, as we are not a research institution)
- 12. Review of new textbook content and options (staff review for currency, faculty review for relevance)
- 13. Review of appropriate software developments and updates (continuously)

Our assessment of the Construction Management program is continuous, and broad components are shown in figure 1 below. The tools that are used to evaluate elements of the program are listed below in Table 1.

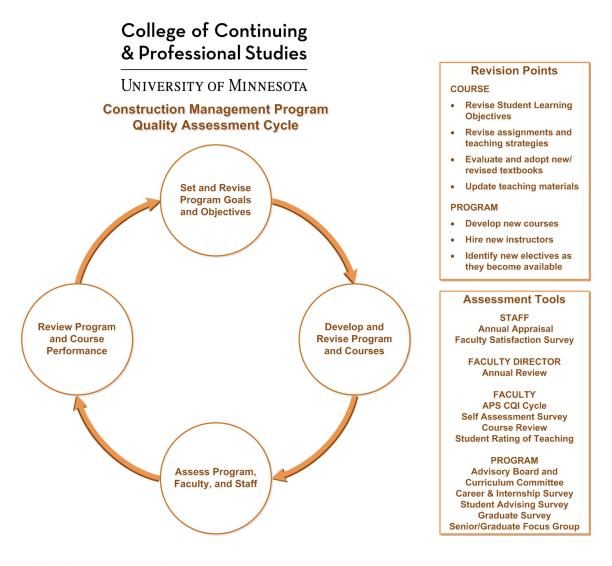


Figure A1. Quality Assessment Cycle

We want our degree program to prepare our students to excel in industry as competent and valuable project team members. We want our curriculum to reflect current technology and industry practices. Our faculty should be accomplished practitioners, working (or having worked) in the industry and providing insight to our students into current practices and tools. And our teaching methods should be the most up to date and effective.

Recommended changes and additions are incorporated into the program Annual Plan, Academic Quality Plan, and individual courses, and these are presented to the Advisory Board for review and comment. This review process uses the ongoing input and feedback we get from students, faculty, our advisory board,

and the College through the assessment methods outlined in the Academic Quality Plan. The overall program is designed to prepare students for work as construction managers. Program courses and course content evolve over time and are added, enhanced, or removed based on industry input. Specific degree requirement changes are presented to and reviewed by our College's Academic Council, prior to approval by the Provost's Office.

**Table A1. Program Assessment Tools** 

Assessment Tool	Frequency	Action	Documentation and Assessment of Effectiveness	Direct or Indirect Assessment	Appendix Reference
Overall program	assessment				
Comparison to ABET/FMAC standards	Semiannually	Department review	Required changes are proposed to and approved by the Academic Council.	Direct	none
Student Experience in the Research University (SERU) survey	Biennially or when University implements	Department review	Incorporated into the Annual Report; response as needed.	Direct	A
Advisory Board and curriculum committee meetings	2x/year	Courses modified, added, or removed	Proposals submitted to CCAPS Academic Council; review semiannually by Advisory Board members, and subject to University Curriculum Review committee final approval.	Indirect	none
Student focus groups (by broad invitation)	Solicited every odd year (since we are a two-year advanced standing program)	Minutes taken to record suggestions	Minutes are filed and suggestions are considered for overall program quality improvements. Annual review of progress.	Direct	none
<b>2. Courses</b> Faculty course assessment	Each term after a class is taught (online)	Department review, objectives revised, teaching methods and exercises revised,	Formal review process documents that faculty goals were achieved, and courses are updated as suggested.	Direct	В

		new content and activities incorporated, textbook changed			
ATD course review	After each course is taught	Review is provided to each instructor	OES follows up with each instructor to document changes made. Incorporates their own "Quality Matters" review of every course.	Indirect	В
UAPS course review	Every three years for established courses; after each new course is taught for the first time	Course objectives, activities, assessments may be revised, recorded, and filed in course review document	Course review form filed and reviewed after next course delivery with instructor and program directors. Follow-up review after course is taught again to document that changes were made and assess their effectiveness.	Direct	В
Student Ratings of Teaching	After each course section is delivered	Plan developed to address student concerns about faculty or course	Annual review of SRTs by program director. Documentation of SRTs for each faculty and each course are filed and assessed each semester. Student rating of teaching values assessed to determine if trends are positive. If trends are negative, the course and faculty review schedules are accelerated. Faculty progress is monitored, and faculty are replaced if improvements are documented.	Direct	D
3. Students		1			
Academic Quality Plan	Annually	Varies for each outcome listed	See Academic Quality Plan	Direct/ Indirect	See separate document

Student	Annually	Improvements or	Placement numbers tracked	Direct	С
placement and		changes made based	from year to year. Both		
career services		on student responses	student satisfaction and		
			student placement should		
			increase each year.		
Student Rating	After each	Plan developed to	Assessment incorporated	Direct	D
of Teaching	course section is	address student	into course review.		
	delivered	concerns about	Annual review of SRTs by		
		faculty or course	program director.		
			Documentation of SRTs for		
			each faculty and each		
			course are filed and		
			assessed each semester.		
			Student rating of teaching		
			values assessed to		
			determine if trends are		
			positive. If trends are		
			negative, the review		
			schedule is accelerated.		
			Faculty replaced if		
			improvements are not		
			made.		
4. Faculty					
Student Ratings	After each	Plan developed to	Assessment incorporated	Direct	D
of Teaching	course section is	address student	into course review.		
	delivered	concerns about	Annual review of SRTs by		
		faculty or course	program director.		
			Documentation of SRTs for		
			each faculty and each		
			course are filed and		
			assessed each semester.		
			Student rating of teaching		
			values assessed to		
			determine if trends are		
			positive. If trends are		
			negative, the review		
			schedule is accelerated.		
			Faculty replaced if		
			improvements are not		
			made.		

Faculty self-assessment review  Student Experience in the Research University	Each term after a class is taught  Biennially or when University implements	Department Review  Department Review	Formal review process documents that faculty goals were achieved, and courses are updated as suggested. Incorporated into the Annual Report; response as needed.	Direct	B D
(SERU) Survey  Course review/ Performance review (for full-time faculty)	Every three years for adjunct, after first time teaching for new faculty, and annually for full time faculty	Teaching methods revised. Goals set for next year. Employee development plan documented and agreed to by college and employee	Formal review process documents goals that were achieved and allows faculty and supervisors to set new goals. Student rating of teaching values assessed to determine if trends are positive. If trends are negative, the review schedule is accelerated. Faculty replaced if improvements are not made.	Direct	D
5. Staff					
Performance Review	Annually	Employee development plan documented and agreed to by college and employee	Formal review process documents goals that were achieved and allows staff and supervisors to set new goals.	Direct	D
6. Advising					
University Advising Survey	Annually	Advising methods and processes revised	Numerical results tabulated and assessed for positive results and trends.	Direct	E
Student Experience in the Research University (SERU) survey	Biennially or when University implements	Department Review	Incorporated into the Annual Report; response as needed.	Direct	Е

**Quality Improvement Plan (QIP) Sub-Appendices** 

QIP Sub-Appendix A1: Overall Program

QIP Sub-Appendix A2: Courses

QIP Sub-Appendix A3: Students

QIP Sub-Appendix A4: Faculty

QIP Sub-Appendix A5: Advising

### QIP Sub-Appendix A1: Overall Program

#### **Student Experience in the Research University Survey**

The Student Experience in the Research University (SERU) survey is a comprehensive national survey administered to all undergraduates at the University of Minnesota Twin Cities (UMNTC). The University of Minnesota has participated in the survey since 2009, most recently in 2022. The data are used to provide UMNTC staff, faculty, and administrators with unique insights into students' experiences. Student surveys can be a powerful and cost-effective way to gain insight into the student experience. This survey is offered in most years to all undergraduates and used to gather information about student engagement in activities that have been empirically shown to influence student learning and positive educational outcomes, both inside and outside of the classroom. A benefit of the SERU is that item responses provide actionable information for faculty, staff, and administrators. The responses can also serve as indicators of academic program and institutional effectiveness. SERU results can be viewed across institutions as a way for a college or university to make peer comparisons.

The survey is administered to all degree-seeking University of Minnesota undergraduate students. The items provide a comprehensive snapshot of the student experience, tapping into diverse domains of interest to a variety of campus stakeholders. Some of the items are designed to gather information on academic and civic engagement, student learning and development, student services, and globalization. Students also respond to items that provide insight into their academic and personal development, perceived campus climate for diversity, overall satisfaction, and evaluation of the major (if applicable). Since the survey asks students about their background, beliefs, motivations, and perspectives, it imparts additional understanding into academic and co-curricular engagement (or disengagement). The diversity in responses reveals the student experience through a variety of lenses.

There is also a customizable module available with which colleges and universities can create items that reflect topics and issues of particular interest to them. Finally, SERU items were created to gather information about a specific college student population: students who attend research institutions. Based on the unique context of research universities, a deliberate effort was made to capture the complexity of these institutions. Survey items are designed to allow for analysis at not only the institutional level but also by college and even academic major. Since research universities are often complex organizations, the ability to identify specific areas within the institution can inform targeted self-improvement efforts, as well as provide evidence of quality at various levels.

Results of the SERU survey are used to assess many elements of the Construction Management program.

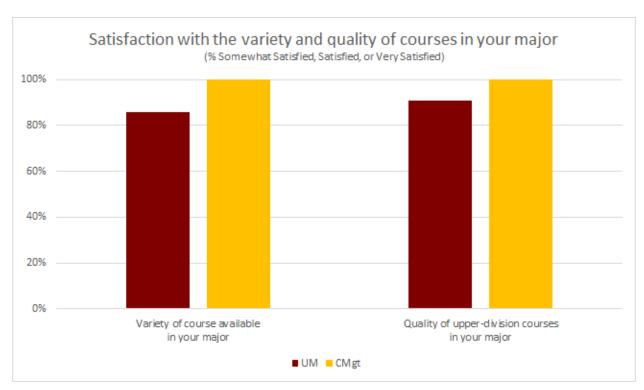


Figure A1.1. Student Satisfaction with Major

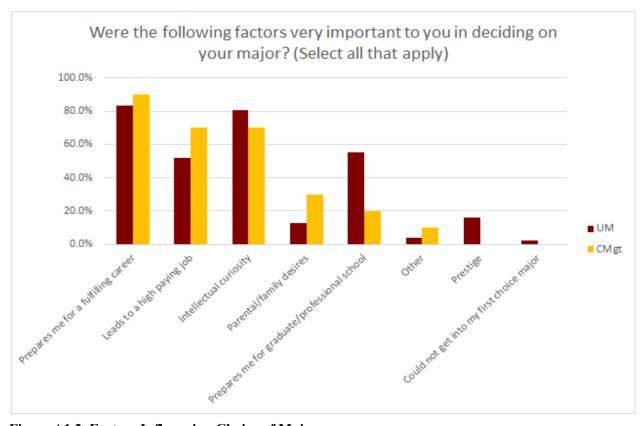


Figure A1.2. Factors Influencing Choice of Major

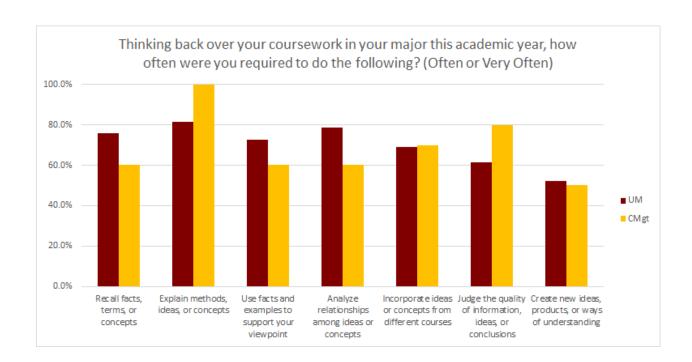


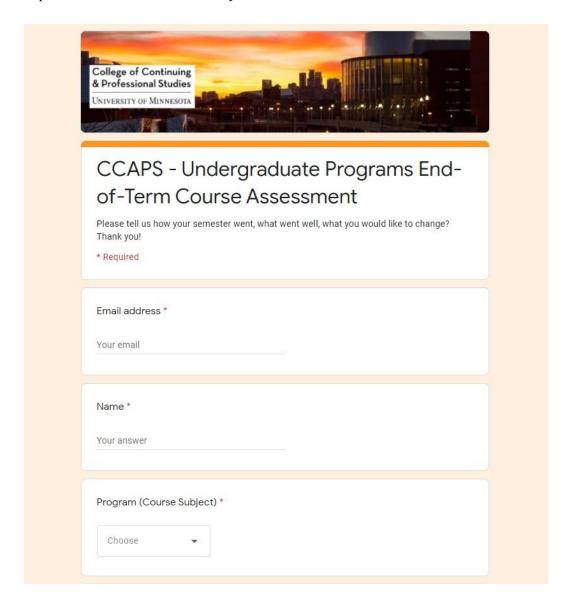
Figure A1.3. Required Effort

# QIP Sub-Appendix A2: Courses

Courses are reviewed in a variety of ways each time they are taught.

#### 1. End of Semester Course Assessment

At the end of each semester, all faculty are invited to complete a Course Assessment survey for each class they taught. Through one multiple-choice and four open-ended questions, faculty reflect on their course(s) and successful teaching strategies and identify changes they would like to see in future versions of the course. The assessment also asks what faculty development activities would be useful and how the program can better support their teaching. Copies of the response are emailed to the faculty member and their program director, who may then open a dialogue with the faculty member. Course assessment responses are included in the three-year course reviews.



Your answer					
Tour dilotter					
Term *					
Choose					
Choose					
Question 1: Ho	w would you	rate vour sat	isfaction with	n teaching th	is semester?
Question i. no	1	2	3	4	is semester.
Low	0	0	0	0	High
Low	0	0	0	0	High
Question 3: Wh				your course,	teaching
Your answer  Question 3: What strategies, cou				your course,	teaching
Question 3: Wh strategies, cou Your answer	rse materials	, or course to	echnology?		
Question 3: Wh strategies, cou	rse materials	, or course to	echnology?		
Question 3: Wh strategies, cou Your answer	rse materials	, or course to	echnology?		
Question 3: What strategies, couranswer  Question 4: White interest?  Your answer	rse materials	nal developm	echnology?	r activities w	ould be of
Question 3: What strategies, couranswer  Question 4: What interest?  Your answer  Question 5: How	rse materials	nal developm	echnology?	r activities w	ould be of
Question 3: What strategies, couranswer  Question 4: White interest?  Your answer	rse materials	nal developm	echnology?	r activities w	ould be of
Question 3: What strategies, couranswer  Question 4: White interest?  Your answer  Question 5: Ho	nat profession	nal developm	echnology?	r activities w	ould be of

Figure A2.1. End of Semester Course Assessment Survey

# Academic Technology and Design (ATD) Course Review

In addition to the instructor's end-of-semester course assessment, the College of Continuing and Professional Studies Academic Technology and Design unit provides a continuous review of all CMGT courses against the following standards:

- Blended F2F Course Criteria.pdf
- Online Course Criteria.pdf
- Online Teaching Review.pdf

#### Protocols for reviews:

- Protocol: Course Review Program Directors
- Protocol: Course Review Instructional Designers

# 2. APS Course Review

Each course is reviewed every three years by the program director, faculty directors, and faculty.

Construction Management Course Reviews - Spring 2020 - Spring 2023	pring 2020	- Spring 2023				3			-		
Course Name	CRN	Current Instructors Offered	Offered	2020	2020 2020	2020	2021	2021 2021	2021	2022	2022 2022
Surveying & Mapping	CE 3202		As Required								
Surveying & Mapping	CEGE 3202	Mavis	Su	1							
Introduction to Construction	CMGT 3001W	Dean, Hauser	Sp, F								2
Construction Plan Reading	CMGT 3011	Cunningham	Sp, F	1							
Facility Programming and Design	CMGT 3024W	Pliska	F Even Years								
The Construction Industry through Time and Tomorrow	CMGT 4000	Bowen	F Even Years						1		
Innovative Contracting	CMGT 4001	Hietpas	F Odd Years								
Lean Construction	CMGT 4002	Gillquist, Lemke	Sp Odd Years				1				
Managing in the BIM Environment	CMGT 4003	Robb	Sp, F								1
Construction Documents & Contracts	CMGT 4011	Creager	Sp, F	1			1				
Construction Planning and Scheduling	CMGT 4021	Styrlund	Sp, F	1				1			
Construction Estimating	CMGT 4022	Bowman	Sp, F								
Construction Safety & Loss Control	CMGT 4031	Lopez	Sp, F					2			1
Specifications and Technical Writing for Construction Professi	CMGT 4041W	Hilger	Sp								
Building Codes for Construction Managers	CMGT 4073	Holm	Sp, F								
Managing Erosion and Sediment Control on Construction Sites	CMGT 4081	Chapman	Sp					1			1
Directed Study	CMGT 4193	Hilger	Sp, F								
Construction Management Internship	CMGT 4196	Hilger	Sp, Su, F								1
Construction Accounting	CMGT 4201	Elthon	Sp, F	1							
Facility Quality Assessment and Commissioning	CMGT 4215	Linder	Sp								
Occupational Health & Safety Principles	CMGT 4301	Cranston	F Odd Years								
Environmental Health Principles	CMGT 4302	Schleuning	Sp Even Years								
Industrial Hygiene Principles	CMGT 4303	Carlson	Sp								
Fire and Life Safety Principles	CMGT 4304	Holm	ш.								
Health and Safety Planning and Management	CMGT 4305	Schleuning	ш								
Advanced Construction Cost Estimating	CMGT 4422	Elthon, Gronvall, Hilg	Sp							2	
Sustainability for Construction Managers	CMGT 4471	Becker	F								
Building Energy Systems	CMGT 4542	Linder	Sp					2			
Materials & Structures I	CMGT 4544	Kuehn									
Materials & Structures II	CMGT 4545	Gronvall	Sp			1					
Topics in Construction Management	CMGT 4550		Sp								
Building Envelope Design & Construction	CMGT 4562	Rasmussen	<u>.</u>								
Construction Management Capstone	CMGT 4861	Hilger	Sp						2		

Figure A2.2 Course Review Calendar

The following **Figure A2.3** standard form is used to ensure that each course is being updated as needed. Courses are also reviewed in a similar way after they are offered for the first time.

Course:	Review Date:
Reviewers: Instructor, Faculty Director, APS Program Director, OES Instructional Designer	Notes By:
Full Course Review Portfolio Here	
REVIEW NOTES	ACTION ITEMS
Course Outcomes	
General Redesign elements (See also OES Design Meeting Minutes)	
The following are from the OES *Online Course Review	*These items to be addressed during redesign.
Learning Outcomes	
Learning Activities and Assessments	
Learning Environment	
Learning Resources	
Course Tools and Media	
Instructor role	
Scope of Revision	
Professional Development	
Other  • Resume: on file • SRTs: Student Ratings of Teaching	

# QIP Sub-Appendix A3: Students

#### **Career Services Graduate Outcome Survey**

Around six months following graduation, Career and Internship Services survey graduates to track their employment success. Results are reported by college and program. We track the trends in our students' work placement and job satisfaction. Results of past surveys are available at <a href="mailto:careerhelp.umn.edu/salarvstat">careerhelp.umn.edu/salarvstat</a>. The most recent results available are for 2020.

Survey results for Construction Management for the past five years are shown below with comparative data for the College of Continuing and Professional Studies (CCAPS) as a whole.

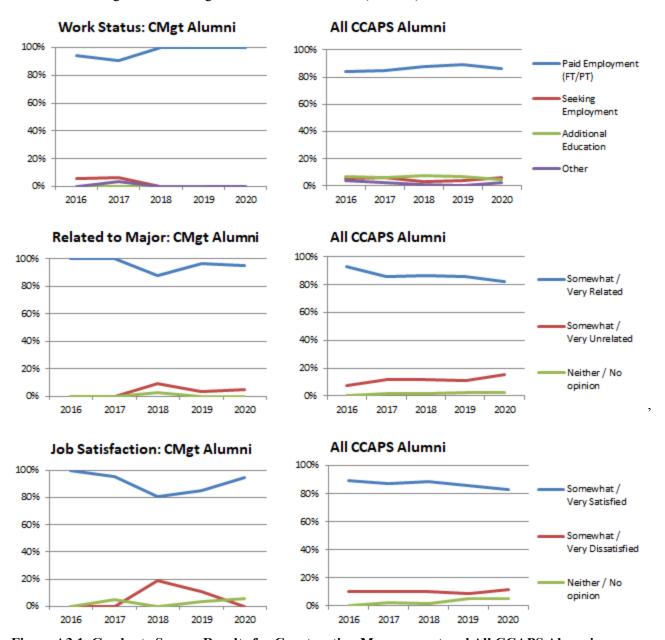


Figure A3.1. Graduate Survey Results for Construction Management and All CCAPS Alumni

# QIP Sub-Appendix A4: Faculty

Full-time faculty positions, such as the faculty-director, are reviewed annually. Adjunct faculty are reviewed as part of the three-year course review process and an assessment by one or more supervisors. Faculty reviews include a review of Student Rating of Teaching (SRT) from each semester, as well as an overview of teaching ratings over the faculty member's duration of service. Goals are set and reviewed as part of the performance assessment.

# 1. Student Rating of Teaching Surveys

The University Evaluation of Teaching policy requires that every course, except internships and directed studies, is evaluated each time it is offered. Evaluation is coordinated by the Office of Measurement Services (OMS) which distributes the SRT forms, collects the completed data from departments, and provides summaries of the results to individual faculty and department heads/chairs (additional information is given at the SRT Process website).

The <u>SRT form</u> was introduced in spring 2008 and revised in 2015 and 2018. It was developed by a subcommittee of the Faculty Senate Committee on Educational Policy (SCEP) and the Senate Committee on Faculty Affairs (SCFA). The new SRT form was pilot tested in spring 2007 with approximately 50 courses, and it included specific teacher and student input.

The SRT form intends to assess teaching more holistically and produce results both relevant to the classroom experience and linked to the <u>University student-learning outcomes</u>. The SRT has improved how teaching is assessed by students, and it helps instructors better understand how they can improve teaching. This form has a solid research base on student learning and instructional excellence.

The SRT form is divided into two sections:

- Section 1: Instructor Ratings This section contains questions for students to rate their instructor and an open-ended question: "What did the instructor do that most helped your learning?"
- Section 2: Course Ratings This section contains questions for students to rate their course and an open-ended question: "What suggestions do you have for improving this course?"

Course ratings are used to provide future students with information about the course. Summary reports are sent by OMS to departmental heads, including statistics for each question. Department chairs and committees use course evaluations during annual faculty reviews to make decisions on salary increases, promotions, and tenure.

The Construction Management program tracks the results of our SRTs each semester, and the faculty director follows up with individual faculty to discuss assessments and trends. A summary of SRT results from all Construction Management courses for the last three years are posted below in figure A4.1.

<b>UAPS SRT E</b>	valuation Su	mmary by Progra	ım		Acad	emi	Yea	ır AY	202	1-22		
	n Manageme											
AY 2021-22	Response Rate	211 / 863 (24.4%)	Mean	5.16	Std De	v 1.	.18					
Eval Form SRT-	2015					%	6 Resp	onse	s			
Instructor Quest	tions				1	2	3	4	5	6	Mear	SD
1 The instructor	was well prepared fo	r class			3%	2%	3%	14%	20%	57%	5.18	1.2
2 The instructor	presented the subject	t matter clearly			2%	3%	4%	13%	25%	51%	5.1	1.2
3 Interactions w	ith the instructor help	oed me learn			4%	1%	5%	13%	21%	55%	5.1	1.3
4 The instructor	treated me with resp	ect			1%	2%	0%	7%	23%	67%	5.5	0.9
5 The instructor	provided feedback in	tended to improve my cou	rse performan	ce	3%	5%	3%	14%	21%	53%	5.05	1.3
6 I would recom	mend this instructor	to other students			3%	3%	5%	11%	25%	52%	5.07	1
Course Question	ns				1	2	3	4	5	6	Mear	SD
1 I have a deepe	er understanding of th	e subject matter			1%	0%	0%	15%	22%	61%	5.41	0.8
2 My interest in	the subject matter w	as stimulated by this cours	e		2%	3%	4%	15%	23%	52%	5.11	1.
3 Instructional t	echnology employed	in this course was effective			2%	3%	7%	11%	32%	45%	5.04	1.
4 The activities i	in this course support	ed my learning			0%	1%	2%	13%	26%	57%	5.34	0.9
5 The amount o	f effort need to be sur	ccessful in this course is rea	sonable		4%	3%	5%	10%	34%	44%	4.97	1
6 The grading st	andards for this cours	e were clear			1%	1%	3%	21%	25%	49%	5.14	1.0
7 I would recom	mend this course to o	other students			3%	2%	5%	13%	29%	49%	5.09	1.
AY 2020-21	-	175 / 930 (18.8%)	Mean	5.34	Std De	-						
Eval Form SRT-2 nstructor Questi					4			onses			Mean	CE
	was well prepared for	rlass			1 1%	1%	3 0%	4 6%	30%	61%	5.46	0.8
	presented the subject				1%	0%	1%	12%	27%	59%	5.39	0.8
	th the instructor help	•									-	
					2%	3%	1%	9%	33%	53%	5.28	1.0
	treated me with respe				3%	0%	1%	3%	21%	72%	5.58	0.9
		ended to improve my cour	se perrormano	æ	2%	1%	5%	11%	26%	55%	5.24	1.
	mend this instructor to	o otner students			2%	2%	2%	9%	27%	57%	5.29	1.1
Course Question		e subject matter as a result	of this course		1 1%	1%	3 2%	10%	5 26%	61%	Mean 5.43	0.8
		s stimulated by this course			2%	2%	2%	13%	28%	53%	5.23	1.
											-	_
		n this course was effective			1%	3%	3%	11%	28%	53%	5.23	1.0
	n this course supporte	-			0%	1%	0%	11%	35%	53%	5.4	0.7
		cessful in this course is rea	sonable		1%	1%	6%	8%	34%	50%	5.25	0.9
	andards for this course				1%	1%	2%	16%	28%	51%	5.25	0.9
7 I would recomi	mend this course to o	ther students			0%	1%	3%	10%	29%	57%	5.38	0.8
AY 2019-20	Response Rate	261 / 797 (32.7%)	Mean	5.41	Std De	ev 0.	.96					
Eval Form SRT-	2015					%	6 Resp	onse	s			
nstructor Quest	ions				1	2	3	4	5	6	Mear	SE
1 The instructor	was well prepared for	r class			0%	1%	0%	4%	25%	70%	5.64	0.6
2 The instructor	presented the subjec	t matter clearly			2%	2%	2%	9%	29%	57%	5.32	1.0
3 Interactions w	ith the instructor help	ed me learn			5%	3%	4%	12%	35%	42%	4.94	1.3
4 The instructor	treated me with resp	ect			3%	1%	0%	1%	19%	76%	5.62	0.9
5 The instructor	provided feedback in	tended to improve my cou	rse performan	ce	1%	1%	3%	7%	23%	65%	5.46	0.9
6 The instructor	found ways to teach	remotely that worked for t	his course		4%	2%	3%	10%	32%	49%	5.09	1.2
7 I would recom	mend this instructor t	o other students			0%	1%	2%	6%	19%	72%	5.58	0.7
Course Question	IS				1	2	3	4	5	6	Mear	n SE
1 I have a deepe	r understanding of th	e subject matter as a result	t of this course		3%	1%	2%	8%	33%	53%	5.28	1.0
2 My interest in	the subject matter wa	as stimulated by this course	2		0%	0%	5%	10%	25%	59%	5.39	0.8
3 Instructional to	echnology employed i	n this course was effective			0%	1%	1%	9%	31%	58%	5.45	0.7
4 The activities in	n this course supporte	ed my learning			0%	0%	0%	25%	13%	63%	5.38	0.
		, ,										

Figure A4.1 SRT Results for Construction Management faculty for last three years

5 The grading standards for this course were clear 6 I would recommend this course to other students

7 The course site was easy to use

7% 25% 63% 5.45 0.88

0% 6% 13% 25% 50% 5

# 2. Student Experience in the Research University Survey

The SERU survey is a comprehensive national survey administered to all undergraduates at the UMNTC. Results of the SERU survey are used to assess many elements of the program and are presented at college level. Those elements are shown in the following section. The most recent survey was in 2022.

According to the survey, a majority of CCAPS students (60%) are satisfied or very satisfied with our faculty instruction, figure A4.2. Other SERU results cover the level of engagement our faculty have with students, figures A4.3, A4.4; the overall educational experience, figure A4.5; and the rapport students feel with faculty, expressed by the number of our faculty that students know well enough to ask them for a letter of recommendation, figure A4.6.

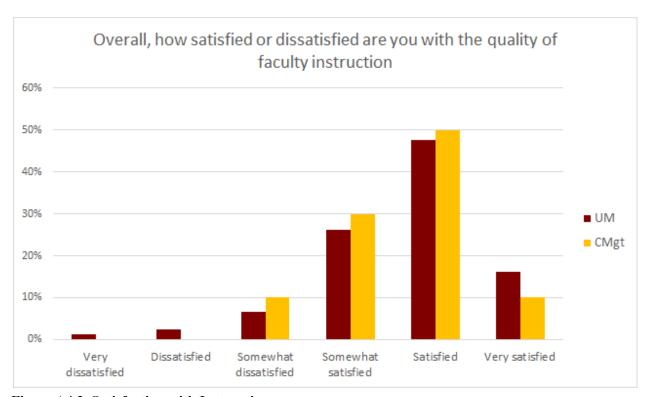


Figure A4.2. Satisfaction with Instruction

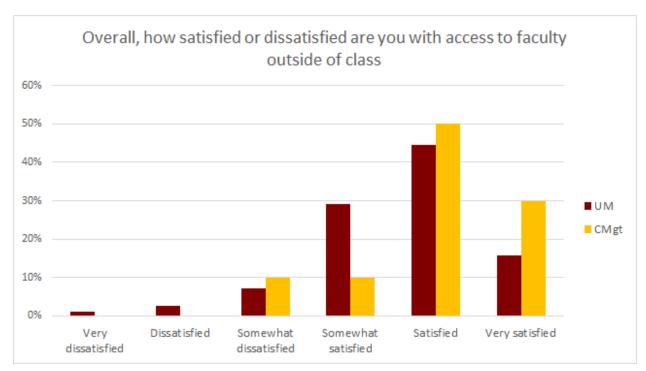


Figure A4.3 Satisfaction with Access to Faculty

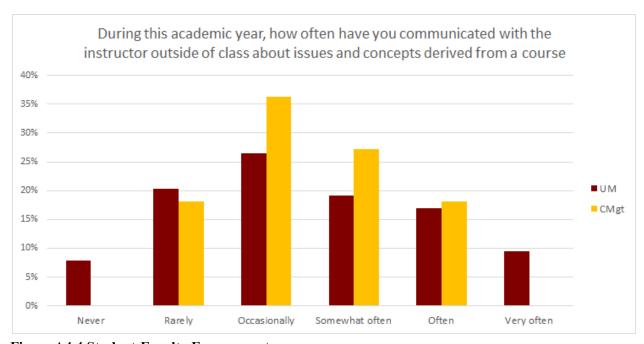


Figure A4.4 Student-Faculty Engagement

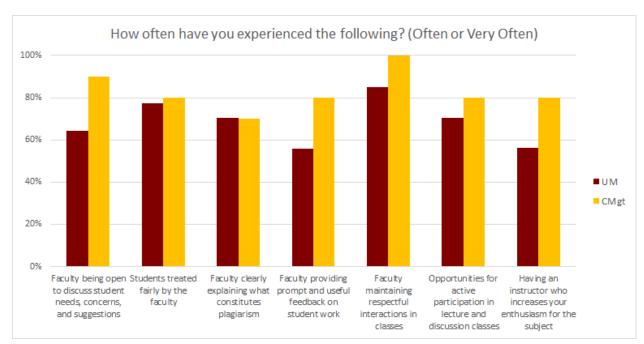


Figure A4.5 Overall Educational Experience

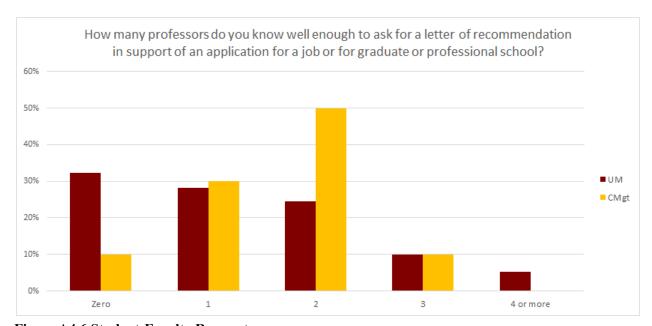


Figure A4.6 Student-Faculty Rapport

SOURCE: SERU Survey 2022

#### 3. Performance Review

Each year, faculty directors and staff are reviewed by the program administration as required by the University of Minnesota. A new performance review form was introduced in 2020 to standardize

performance assessment and goal setting and to discuss professional development needs and plans. The process moved to a new online performance appraisal tool in 2021.

The review process is described below, and the form is shown below, figures A4.9 and A4.10.

- Step 1: Review and update position descriptions with supervisor.
- Step 2: Employees complete and submit Employee Input Form to supervisor.
- Step 3: Supervisors complete Performance Review and meet with their employees to discuss the review and rating.
- Step 4: All completed reviews, including ratings are submitted to Unit Directors.
- Step 5: Unit Directors submit signed forms (printed or electronically) to CCAPS Human Resources.

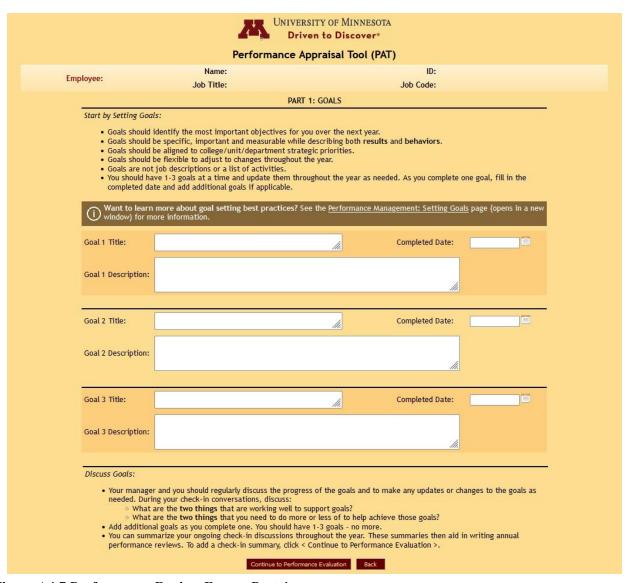


Figure A4.7 Performance Review Form - Part 1

mployee:	Name:	ID:
10.000 (10.000)	Job Title:	Job Code:
		ICE EVALUATION
Complete both		yee input section is intended to inform the formal evaluation, but it is nd it will not appear on the printed version.
2	PART 2: KEY ACCOMPLIS	HMENTS AND CONTRIBUTIONS
Describe the en	nat results were achieved - key accomplishments a nployee's most important accomplishments during ts had and the contributions made to important go	the current evaluation period. Describe the impact those
		fit.
<u> </u>	PART 3: BEHAVI	ORAL COMPETENCIES
	w results were achieved - behavioral competencie ortant in supporting accomplishments and the conf	s. (i.e., skills, knowledge, abilities, and other characteristics) that ributions made to important goals and priorities.
How resu	ncies come into play. Don't have a beĥavioral co	the person works with others; that's when the behavioral mpetency model? Go to <u>z.umn.edu/competencies</u> to learn more of Minnesota to support talent development.

Figure A4.8 Performance Review Form - Parts 2 and 3

# QIP Sub-Appendix A5: Advising

# 1. CCAPS Satisfaction Survey

CCAPS conducts a student satisfaction survey in fall each year to measure service satisfaction among all students/participants who have registered, enrolled, or attended CCAPS degree/certificate programs, Continuing Professional Education, nondegree-seeking students and noncredit personal enrichment courses. The most recent survey took place in fall 2019.

#### **Detailed Results**

Results from the questions which relate to CCAPS staff, including advising, are presented below. They found 88% of students felt very or extremely satisfied that staff were committed to their success, and 85% reported contacts with CCAPS staff to be very or extremely helpful.

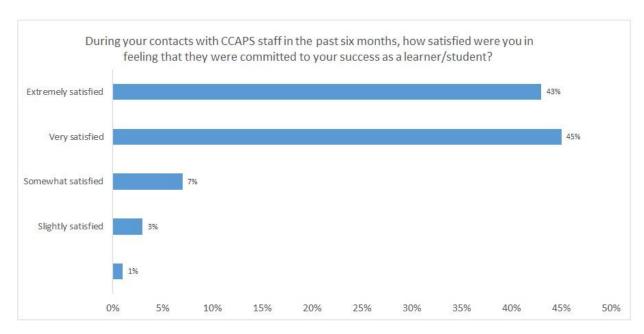


Figure A5.1: Satisfaction with CCAPS Staff

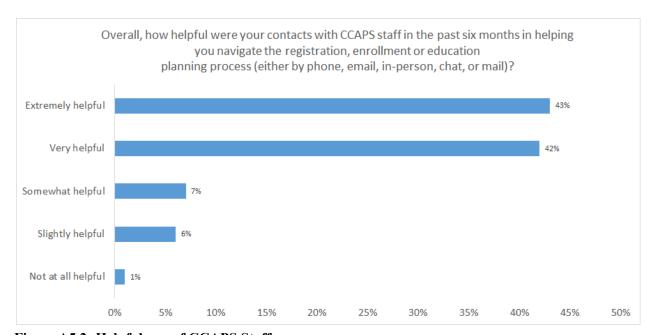


Figure A5.2: Helpfulness of CCAPS Staff

#### 2. Student Experience in the Research University Survey

As noted above, the SERU survey is a comprehensive national survey administered to all undergraduates at the UMNTC. The survey asks students about their satisfaction with departmental advising. Results from the spring 2022 SERU survey are shown below.

As indicated by figure A5.3, the majority (70%) of our students are satisfied or very satisfied with our academic advising.

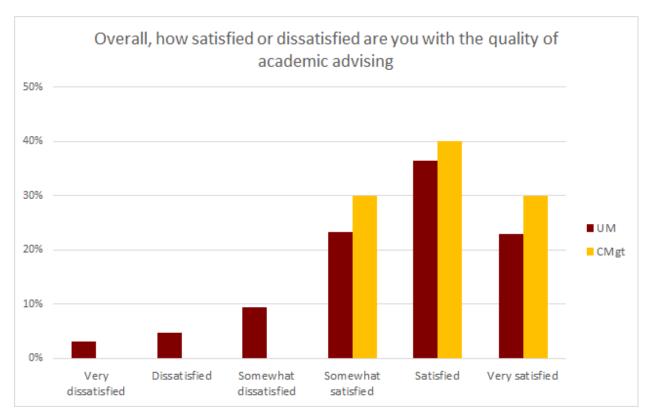


Figure A5.3: Satisfaction with the Quality of Academic Advising

# **APPENDIX B**

# **University of Minnesota Construction Management Program**

# **Academic Quality Plan Assessment – 2021-22**

#### **Mission Statement**

Preparing future construction leaders to sustainably manage the built environment.

#### **Program Goals**

The goals of our construction management program are as follows:

- 1. Graduate well-qualified major/minor/certificate students
- 2. Partner with the University of Minnesota College of Design (CDES), the College of Science and Engineering (CSE), Sustainability Studies Management (SSM), and the Housing Studies program to serve the construction industry
- 3. Collaborate with other regional construction management programs to serve industry
- 4. Develop industry relationships to support student contact with industry mentors, internships, and employment
- 5. Contribute to the growth and improvement of the construction industry

#### **Annual Plan**

Our Construction Management Annual Plan (Appendix C) lists objectives for meeting each of the goals listed above.

#### **Student Learning Outcomes and Metrics**

Student Learning Outcomes are assessed continuously as part of our Construction Management Quality Improvement Plan (QIP) (Appendix A). We have developed six Program Learning Outcomes (PLO) informed by 35 Program Level Competencies (PLC) that support the first goal of graduating well-qualified major, minor, and certificate students. As a major step in fully implementing the outcomes-based standards required by our accreditation organizations, ABET and FMAC, course outcomes and competencies have been mapped across the curriculum, including the method of assessment. This is facilitated by analysis of assessment data gathered in the Canvas course management system.

**Table B1. Student Learning Outcomes and Measurement Results** 

Student	Metric/Measure of success	How Achieved	Results for
Learning Outcome			2021–22
	nize, understand and effectively int	teract with stakeholder interests	
1.1	Students can demonstrate written,	At least one assessment in eight core	11 assessment
	oral, aural, and graphic	courses will measure this competency,	points in 6
	communication skills through	with at least 80% of the students receiving	courses
	repetitive assessment and	a "proficient" rating per the assessment	77% rated
	evaluation of	rubric measured across the curriculum.	exemplary or
	industry-appropriate genre.		proficient
1.2.	Students can lead, manage and	At least one assessment in four core	3 assessment
	participate in teams including	courses will measure this competency,	points in 3
	those of diverse composition.	with at least 80% of the students receiving	courses
		a "proficient" rating per the assessment	69%
		rubric measured across the curriculum.	
		Assessment may include a peer review	
		component at the discretion of faculty to	
		determine participation effectiveness.	
1.3	Students can identify the roles of	At least one assessment in four core	6 assessment
	individuals, companies, and	courses will measure this competency,	points in 4
	agencies involved in the project	with at least 80% of the students receiving	courses
	process.	a "proficient" rating per the assessment	74%
		rubric measured across the curriculum.	
1.4	Using factors around health,	At least two assessments in CMGT 4861	2 assessment
	safety, welfare, comfort, safety,	Capstone will measure this competency,	points in 1
	and security within the	with at least 80% of the students receiving	course
	organization, the student can	a "proficient" rating per the assessment	94%
	practice applications of human	rubric measured across the course.	
	resource management.		
1.5	Students can recognize the	At least one assessment in three core	1 assessment
	contribution of the design	courses will measure this competency,	point in 1
	disciplines' processes.	with at least 80% of the students receiving	courses
		a "proficient" rating per the assessment	29%
		rubric measured across the curriculum.	
2. Demor	strate ethical behavior and decisio	n-making	

2.1	The student can analyze	At least one assessment in four core	5 assessment
	professional decisions based upon	courses will measure this competency,	points in 3
	ethical principles.	with at least 80% of the students receiving	courses
		a "proficient" rating per the assessment	71%
		rubric measured across the curriculum.	
2.2	NOT USED (Reserved for future)		
2.3	The student can identify the skills	At least four discrete assessments in	4 assessment
	needed to strategically lead	CMGT 486 Capstone will measure this	points in 1
	process, organization,	competency, with at least 80% of the	course
	stakeholders and technologies in	students receiving a "proficient" rating	91%
	an ethically responsible way.	per the assessment rubric measured across	
		the course.	
3. Safely	manage and control the project pr	ocess	
3.1	NOT USED (reserved for future)		
3.2	Students can identify construction	At least one assessment in four core	2 assessment
	project control processes.	courses will measure this competency,	points in 2
		with at least 80% of the students	courses
		receiving a "proficient" rating per the	80%
		assessment rubric measured across the	
		curriculum.	
3.3	Students can compare	At least one assessment in four core	2 assessment
	construction quality assurance	courses will measure this competency,	points in 2
	and control.	with at least 80% of the students receiving	courses
		a "proficient" rating per the assessment	78%
		rubric measured across the curriculum.	
3.4	Students can apply appropriate	At least one assessment in four core	No data
	state-of-the-art, electronic-based	courses will measure this competency,	
	technology to manage the project	with at least 80% of the students receiving	
	process.	a "proficient" rating per the assessment	
		rubric measured across the curriculum.	
		Program will make available an academic	
		Bluebeam license to all students enrolled	
		in core coursework.	
			,
3.5	Students will implement project	At least one assessment in three core	2 assessments
	safety strategies and jobsite	courses will measure this competency,	in 2 courses
	procedures.	with at least 80% of the students receiving	85%
		a "proficient" rating per the assessment	
		rubric measured across the curriculum.	40/42 (95%)
			earned their
			OSHA 30 in
			CMGT 4031

		At least 80% of enrolled students in CMGT 4031 will earn their OSHA	
3.6	Students can create a construction project safety plan.	30-hour safety card.  At least one assessment in CMGT 4031 Safety and Loss Control, CO6 Injury	3 assessment points in 1
	project sarety plani.	Report, will measure this competency, with at least 80% of the students receiving a "proficient" rating.	course
3.7	Students can assemble construction estimates using various techniques assessing quantities, productivity and costs.	At least one assessment in CMGT 4022 Estimating will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the course.	1 assessment point in 1 course 100%
3.8	Apply scheduling techniques to project planning activities.	At least one assessment in CMGT 3001 Intro, and at least two assessments in CMGT 4021 Planning and Scheduling will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	1 assessment point in 1 course 58%
3.9	Calculate necessary resource requirements throughout a project.	At least one assessment in CMGT 4021 Planning and Scheduling will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	100% covered in CMGT 4021 but not separately assessed. Part of the final project.
4. Under	stand the built environment		
4.1	Students can analyze construction documents for planning and management of construction processes.	At least one assessment in four core courses will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	No data
4.2	Students can assess the condition of the facility including its systems, structure, interiors, exteriors, and grounds to establish a long-term facility plan for the organization.	At least one assessment in four core courses will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	2 assessment points in 2 courses 81%

4.3	Analyze methods, materials, and	At least one assessment in three core	No data
	equipment used to construct	courses will measure this competency,	
	projects.	with at least 80% of the students receiving	
		a "proficient" rating per the assessment	
		rubric measured across the curriculum.	
4.4	Understand the basic principles	At least six assessments in CMGT 4544	100%
	of structural behavior.	and 4545, the Structures sequence, will	
		measure this competency, with at least	
		80% of the students receiving a	
		"proficient" rating per the assessment	
		rubric measured across the courses.	
4.5	Describe the basic principles of	At least four assessments in CMGT 4542	No data
	mechanical, electrical, and	Building Energy Systems will measure	
	plumbing systems.	this competency, with at least 80% of the	
		students receiving a "proficient" rating per	
		the assessment rubric measured across the	
		courses.	
4.6	As a foundation for operations,	All assessments in this course come from	No data
	maintenance, and energy	CMGT 4542 Building Energy Systems.	
	management, the student can		
	recognize the systems, services		
	and functions thereof, and the		
	software applications that support		
	them.		
4.7	Apply basic surveying techniques	At least 90% of the students enrolled in	<u>CEGE 3202</u>
	for construction layout and	CEGE 3202 Surveying pass this course	meets this
	control.	with a grade of "C" or better.	competency
			15/15 students
			met this
			criteria, 100%
4.8	Demonstrate awareness of	At least one assessment in three core	2 assessment
	environmental stewardship and	courses will measure this competency,	points in 1
	sustainable principles applied to	with at least 80% of the students receiving	course
	the project and the organization.	a "proficient" rating per the assessment	66%
		rubric measured across the curriculum.	

5. Mana				
5.1	Students can demonstrate an	At least one assessment in five core		11 assessment
	understanding of business and	courses will measure this competency,		points in 6
	management fundamentals as	nentals as with at least 80% of the students receiving		courses; 61%
	they relate to construction and	a "proficient" rating per the assessment		
	facility activities.	rubric measured across the curriculum.		

		All students will participate in an internship (except those with experience that meet this requirement by Directed Study). An aggregate retention/rehire rate of 50% can be demonstrated for the program as a whole.	re 78 (2 ev re re of	ternship tention rate 3% 021–22: 7/9 valuation sponses ceived perm ffers)
5.2	Students can explain the history, international practices, corporate organization and roles of the Facility Management profession.	Assigned readings in the course textbook within CMGT 3024W Facility Programming and Design will cover this competency.	po co	assessment bints in 3 burses. o data
5.3	Using principles of acquisition, installation, operations, maintenance, outsourcing, renovation, and disposition of building systems, structure, interiors, exterior, and grounds, the student can demonstrate the phases of facility management from design/acquisition to final disposition.	At least one assessment in four core courses will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	po	assessment bint in 1 burses 7%
5.4	Recognize the legal implications of contract, common, and regulatory law to manage a project.	At least one assessment in four core courses will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	po	assessment pints in 2 purses 5%
5.5	Evaluate disputes based on case facts and contract content.	At least one assessment in four core courses will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	po co	assessment bints in 3 burses 9%
5.6	Apply analysis, budgeting, accounting, risk management, and reporting to demonstrate applications of construction and facility financial management.	At least one assessment in either CMGT 4201 Const. Accounting or CMGT 4211 FM Accounting, plus one assessment on Pay Applications in CMGT 4011, will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the curriculum.	po co 7º	
5.7	Demonstrate applications of corporate real estate finance,	At least one assessment in two core courses will measure this competency,	N	o data

	management, and transactional	with at least 80% of the students receiving		
	execution.	a "proficient" rating per the assessment		
		rubric measured across the curriculum.		
5.8	Demonstrates the ability to			No data
	understand and apply computer			
	applications for facility			
	management problem solving.			

6. Mana	5. Manage building systems, facility operations, occupant services and maintenance operations					
6.1	The student can demonstrate a method to plan, measure, and evaluate the facility's operational performance.	courses will measure this competency,		No data		
6.2	The student can interpret, apply, and recommend quality improvement programs.	At least one assessment in one core course will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the course.		2 assessment points in 2 courses (CMGT 4213, 4215); data pending		
6.3	The student aligns facility management technology with organizational information technology.	At least one assessment in one core course will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the course.		1 assessment point in one core course (CMGT 4215); data pending		
6.4	Comprehend and prepare emergency preparedness and business continuity strategies.	At least one assessment in one core course will measure this competency, with at least 80% of the students receiving a "proficient" rating per the assessment rubric measured across the course.		2 assessment points in two core courses (CMGT 4213, 4215); data pending		

**Table B2. Program Goal Metrics** 

2014 Metrics	Results	2022 Goal
1. Graduate well-qualified stude	nts	
Students take the CMIT exam as part of the CMGT 4861 Construction Management Capstone course.	No students took the exam in spring 2022, though they remain eligible.	Increase the number of students who take the CMIT test.  Demonstrate a 70% passing rate.
Program internship places students in jobs where they receive additional education and work experience. Employers will judge whether students are "well prepared" by offering them permanent positions within their companies.	Permanent job offers to interns are generally high. Information is reported via the internship evaluation survey.  The ratio of job offers to survey respondents by Academic Year (fall–summer) and survey response rate.  2021-22: 7/9 (78%) 26% response 2020-21: 5/5 (100%) 13% response 2019-20: no response to survey	Continue to increase the number of internship opportunities for students.  Increase percentage of returned internship surveys to 70%.  Begin to analyze responses, and track for years forward.
Students are hired into construction management jobs.	Career and Internship Graduate survey Summer each year: Latest results 2020. 2020: 100% of CMGT graduates working in paid employment. 95% in a job somewhat or closely related to the major. 2019: 100% of CMGT graduates working in paid employment. 96% in a job somewhat or closely related to the major. 2018: 100% of CMGT graduates working in paid employment. 88% in a job somewhat or closely related to the major.	Continue to track and show a high rate of students working in the construction field. Begin monitoring data, and demonstrate positive trends moving forward.
Student written work meets industry standards for quality, clarity, format, and completeness	Independent industry raters evaluate student work in CMGT 4041W, giving scores for a variety of criteria. The work is rated on a scale of 0–2. Both objective and subjective assessments are obtained and recorded for program analysis. Last evaluated 2011, 2014.	Rating of upper-division writing metrics show improvement each year.  Next rating due 2021 (canceled 2020 due to COVID)

2. Partner with other University	of Minnesota colleges to serve industry	
Students from other colleges enroll in our CMGT courses	Registrations in Construction Management classes from students in other colleges, by Academic Year (fall–summer) AY 2021-22: 219 (31%) AY 2020-21: 203 (25%) AY 2019-20: 238 (31%)	Increase the number of students from other colleges enrolled in courses.
Students complete the CMGT minor	CMGT minor completion data is given below by Academic Year (fall-summer) AY 2021-22: 8 AY 2020-21: 4 AY 2019-20: 5	Participate in the University-wide Minors Fair every fall.
Students complete the CMGT certificate.	CMGT certificate completion data is given below by Academic Year (fall-summer)  AY 2021-22: 9  AY 2020-21: 8  AY 2019-20: 5	Last metric: Target the number of certificate applications to 8.
Our college cosponsors events and outreach activities with other colleges.	The CMGT program collaborates with UMN Colleges of Science and Engineering, and College of Design, and regional Colleges that teach construction management to offer an intercollegiate career fair and an annual Quiz Bowl, each October since 2012. We assist with and participate in the Spring Pentathlon event, an intercollegiate Construct*ium event, annually in April.	Hold two intercollege events per year: Quiz Bowl/Career Fair in October; Pursuit Competition event in April  2021: The career fair was online and no Quiz Bowl was held.
Advisory board members include representatives from other colleges.	The CMGT Advisory Board includes a representative from the College of Science and Engineering.  Advisory Board Company List	Continue as is.

3. Collaborate with regional CM	GT programs to serve industry	
3. Collaborate with regional CM Sponsor joint events with regional CMGT programs through Construct*ium.	CMGT attends the monthly meeting, held for the last two years, that includes representatives from all regional CMGT programs.  CMGT staff and students have participated in three MCA golf scholarship fundraisers with representatives from other regional CMGT programs.	Continue participation and leadership in Construct*ium activities.
	Annual Quiz Bowl held each October including teams from four to six regional colleges.  Annual Intercollegiate Career Fair held each October, with invited students from nine regional schools.  Annual Pentathlon Soft Skills Competition, with invited students from nine regional schools (every two years)  In 2014 the CMGT program, in collaboration with midwest construction management programs, organized the Upper Midwest Collegiate Construction League (Construct*ium).	
UMN staff participate on regional CMGT boards.	Peter Hilger serves on the Advisory Board for Dakota Technical Community College, a two-year feeder program.	Continue membership on Dakota Tech Advisory Board.
4. Develop industry relationship	_ ^^	
CMGT program maintains a database of 700+ employer contacts.	Database continued to be increased, updated, and revised.	Maintain database, augment with new contacts annually.
CMGT program maintains an active advisory board made up of representatives from all industry segments and potential employers.	Our Advisory Board has 47 voting members. Membership is drawn from general contractors, heavy engineering, subcontractors, owner reps, nonprofits, associations, and consultancies.	Maintain membership of 45 active members.

CMGT program requires an	CMGT program emails all internship	Continue, but increase the
internship by all students.	candidate resumes to our database of	number of potential employers
CMGT program assists students	potential employers every spring (Virtual	by 5% per year.
in obtaining internship positions	Career Fair).	
by facilitating a "virtual job		
fair."		
5. Contribute to growth and imp	provement of the construction industry	
CMGT program sponsors	CMGT program sponsored a white paper	Identify one white paper
outreach and informational	discussion on Best Value in 2009,	opportunity.
activities aimed at industry	attended by over 50 industry	
professionals.	professionals.	
	Faculty Jain and Hilger presented	
	weeklong technical seminars on project	
	management themes each of 2017 and	
	2018 for the NOAA Kansas City Office.	
	Hilger is an editorial contributor for	
	Construction Business Owner magazine.	
	Hilger has published a white paper,	
	Communication, the Bedrock of	
	Construction, for Construction Business	
	Owner magazine.	
	Hilger has been selected by Taylor	
	Routledge Publishing to write a textbook	
	on communication, along with former	
	Research Assistant Heidi Wagner, due to	
	be published 2021.	
CMCT and anomal a figure	<u> </u>	In angage mymbar - C 11 - 1
CMGT program offers a	CMGT 4081: Managing Erosion and	Increase number of enrolled
stormwater training program to	Sediment Control on Construction Sites	students in CMGT 4081.
construction professionals in	D · · · · ·	
need of certification.	Registration:	
	Spring 2022: 2 (All CCAPS)	
	Spring 2021: 9 (All CCAPS)	
	<b>Spring 2020</b> : 14 (13 CCAPS, Other	
	colleges 1)	

# **APPENDIX C**

# **University of Minnesota Construction Management Program**

# Annual Plan\* 2021-22

#### **Mission Statement**

Preparing future construction leaders to sustainably manage the built environment.

# **Program Goals**

The goals of our construction management program are as follows:

- 1. Graduate well-qualified major/minor/certificate students
- 2. Partner with the University of Minnesota College of Design (CDES), College of Science and Engineering (CSE), Sustainability Studies Management (SSM), and the Housing Studies program to serve the construction industry
- 3. Collaborate with other regional construction management programs to serve industry
- 4. Develop industry relationships to support student contact with industry mentors, internships, and employment
- 5. Contribute to the growth and improvement of the construction industry

\*updated yearly

# **Annual Plan (as of September 1, 2017)**

Goal	Objectives	Frequency		Status/Results			
1. Graduate	e well-qualified major/minor/cert	ificate students					
1a. Obtain/	1a. Obtain/Maintain Program Accreditation						
	ACCE: Submit annual progress report	Annually, due December 1, 2017		No longer a member of ACCE, switched accreditation to ABET, retroactive to October 2018.			
	Document data collection	Ongoing issue		All coursework now collects data on student outcomes continuously, hosted and compiled by ATD through the Canvas learning management system platform.			
	Attend ACCE midyear meetings	Not attended in 2017-18 school year		Last attended February 2015. Shifting to ABET model January 2019. Not planning to attend ACCE. Hilger trained at ABET as a Site Team Visitor, 2018.			
	Consider ABET Accreditation	One time		DONE. ABET conferred accreditation with no weaknesses or concerns, September 2020.			
	Update annual strategic plan	Annually at start of fall semester		Complete with this report.			
	Update and implement outcome assessment plan	Fully implemented, continuous assessment data collected		Ongoing.			
	Attend IFMA annual meetings	Annually in fall		Peter Hilger attends World Workplace every fall (could not attend fall 2018, 2019, but serves on FMAC Board).			
	Maintain IFMA/ABET accreditation: file annual report and renewal	Annually in fall		Full reaccreditation achieved in 2019 for six years by ABET.			
	Active participation on Facility Management Accreditation Commission (FMAC)/ABET	Annually		Peter Hilger has completed ABET Site Visitor Training, June 2018, and is being assigned to accredit other institutions.			
1b. Review	curriculum to reflect changes in	industry and student	t nee	-			
	Update list of courses to be reviewed each year	Annually in June and January		Schedules for course reviews are done prior to every subsequent semester in order for the OES team to manage their resources.			

Conduct course reviews	As scheduled	All courses are reviewed by the Program Director and the Faculty Director every
		three years. Nine courses were reviewed in 2021-22.
Review list of courses to	This is an ongoing	Most courses now have an online
develop as hybrid/in person	process as a	section, with others adapting to online
class, and/or transfer to fully	function of	for COVID. All courses are strongly
online (University limits	demand and	supported by staff for either
Special Topics to two semester	scheduling trends	synchronous or asynchronous delivery.
offerings)		
Assess delivery of ABUS	Now on a regular	Though no technical requirement to
4013W Legal, Ethical and Risk	course review	assess since it is an ABUS course, we
Issues (Business Law)	cycle in the	continue to monitor the course quality
	ABUS program	for the benefit of our students.
Develop specialized Math	2017	Excellent results achieved, second
course to replace Calculus		spring section now being considered.
Requirement		
Develop supplemental online	Ongoing	No resources, either staff or financial,
resources in risk, delivery		have been applied to this but are kept on
methods, ethics, vocabulary,		the planning radar. (Low priority) NO
and building techniques		CHANGE
Develop Writing Style Guide	Annually in	Launched spring 2015. NO CHANGE,
for students	summer for	though the website is continually
	subsequent year	updated with new information.
		Hilger/Wagner to publish textbook fall,
		2021 in support of writing in the
		industry.
Develop Teaching with Writing	Summer 2018	Received grant to implement Third
Guide for faculty		Writing Plan. Teaching assistants
		worked to develop improved writing
		rubries for faculty. ONGOING

1c. Assess transfer of students to University of MN Liberal Education standards					
The U of M's Liberal	Permanent		No need for further assessment		
Education (LE) requirements			(University requirement).		
were incorporated into the					
existing curriculum. We will					
assess student issues and					
concerns (if any) as we					
transition to this new criteria					
1d. Student assessment and advising					

	Develop system for collecting	Evaluate Annually	No work to integrate this in our program
	student ePortfolios	j	has been done yet. Kept as a placeholder
			as collecting outcomes data took a
			higher priority. Still on the "nice to
			have" list.
	Distribute and monitor results	Annually	1) Advising survey sent at end of
	of student advising survey		each semester to graduating
			students.
			2) College does a Satisfaction survey
			biennially including advising
			questions. NO CHANGE
	Record number of meetings	Annually	Every meeting with a student is
	with students and track		recorded via notes in the A Plus system.
	enrollment, graduation,		Enrollment, grad rates and attrition
	attrition		tracked via University's PeopleSoft
			system. NO CHANGE
	Monitor students to track	Annually	CCAPS admits and graduates students
	percent that complete the		in all semesters. Graduation rates are
	required upper division course		calculated using the number of
	of study within two years.		semesters to complete.
			For CMGT Major students graduating
			during 2021–22, 35.5% (11/31)
			completed within two years (6
			semesters) of entering the program.
1e. Student	Development		semesters) or entering the program.
	Support CFMSA financially	Attend meetings,	Created staff liaison responsibility with
	and administratively	fund expenses	academic advisor (Megan Seltz) to
		•	improve continuity of the organization
			from year to year. Seltz/Hilger jointly
			manage.
	Identify and support	Annually	CFMSA is the host organization and
	participation of CFMSA in one		participates in the Intercollegiate Quiz
	student competition each year		Bowl Event, held in conjunction with
			the Career Fair in October.
	Doutisingto as a selless sud	Ammoller in Call	A more allowed and the control of th
	Participate as a college and program in Homecoming	Annually in fall	Annually participating as a College
	Host a Sigma Lambda Chi	Fall 2017	Maintain chapter affiliation in good
	Student Chapter		standing.
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	Host a Toastmasters Club with	Discontinued	Hardhatter's Toastmasters		
	students and alumni		Club#05573652 initiated spring 2017,		
	participation		was transferred to Knutson Construction		
	participation		in 2019, and abandoned in 2020 due to		
			COVID and excessive management by		
			Toastmasters. This activity is now		
			abandoned.		
1f. Faculty 1	 Development		abandoned.		
The Lucuity 1	Provide faculty development	Ongoing	Portion of each faculty meeting devoted		
	workshops at two faculty	Twice annually	to technical or learning support and		
	meetings each year by	1 wice amidally	development. NO CHANGE		
	Academic Technology and		development. NO CHANGE		
	Design (ATD)				
	• , ,	Dagularky un datad	Maintained by ATD NO CHANCE		
	Develop Canvas resources for	Regularly updated	Maintained by ATD. NO CHANGE		
	faculty, via ATD Website	December 11 C	Onssins NO CHANCE		
	Make seminars and resources	Regular notice of	Ongoing. NO CHANGE		
	available to our faculty through	upcoming events			
	the Center for Teaching and				
	Learning (CTL) or Office of				
	Information Technology (OIT)				
	Provide individual consulting	Faculty are	Usually provided during the Canvas		
	on course design and	regularly notified	course updates prior to the start of a new		
	management to all faculty	by email and at	semester.		
	through ATD	each faculty			
		meeting			
1g. Become	active members of ASC and IFM	IA			
	Maintain ASC membership and	Annually	Hosted 2018 ASC International		
	facilitate student participation		Conference at U of M as part of		
	in competitions		Construct*ium. Offered participation to		
			students in Region 4 competition in		
			2019 as part of Capstone requirement:		
			no takers.		
	Participate in the IFMA annual	Annually in spring	Engaged with IFMA Education		
	chapter symposium and several		Committee locally. Appointed Justine		
	local chapter meetings		Pliska, faculty, to be FM liaison to the		
			local IFMA chapter and industry at		
			large. NO CHANGE		
2. Partner v	2. Partner with the University College of Design, College of Science and Engineering, and Housing Studies				
	program to serve the construction industry				
	Communicate information	Annually in fall	Held FM information presentation in		
	about career fair to CSE and	semester	Interior Design classes (Justine Pliska)		
	CDES students and advisors;		spring 2019.		
<u> </u>	,		-r0		

provide information about courses to advisors in CSE and CDES regarding our courses, and present at CSE and CDES advisor meetings each fall  Monitor enrollments by	Annually in May		Collaborated with BBE, now SSM, for 2018–19 Race-to-Zero competition. Regularly communicate new course opportunities with the advisor network. Hilger regularly participates in student juries by invitation of CDES faculty. Invited all CSE and CDES students to our Career Fair. Invited all CDES and CSE to the Study Abroad program. Data is collected regarding school of
students from CDES and CSE	and December		origin in PeopleSoft.
Assess first delivery of BIM course, CMGT 4003 Managing in the BIM Environment	Offered in fall semester to 2020, then spring and fall from 2021.		Registrations: Spring 2022: 16 Fall 2021: 16 Spring 2021: 14 Fall 2020: 19 Fall 2019: Not offered
3. Collaborate with other regional CMGT pro  Lead Construct*ium initiative	Ongoing	ustry	Awarded ASC Conference for 2018. Regularly communicate and integrate regional faculty into joint programs and initiatives. NO CHANGE
Participate in scheduled Construct*ium conference calls for regional CMGT programs	Always, when scheduled by MCA		ONGOING; NO CHANGE
Participate in Spring Soft Skills Event—the Pentathlon	Annually in April		MCA changes to Leadership Academy, held every two odd years (next 2021).  Pursuit Competition removed from Pentathlon and sponsored every year by Ryan Construction for all nine schools.
Support and organize annual Intercollegiate Quiz Bowl in October	Annually first Friday in October		Held October each year, sponsored by Construct*ium, organized by U of M. Canceled fall 2020 due to COVID.
Support and organize Intercollegiate Built Environment Career Fair in October	Annually first Friday in October		Very successful, fall 2021 event attended by 7 upper midwest universities, 63 employers, nearly 200 students.
Serve on Dakota Tech Advisory Board	2–4 times/year		Attended to by Hilger and Seltz. ONGOING

Facilitate student tours	Variable	XCEL Energy Plant in 2019. This role
	frequency	has been transferred to CFMSA with
		CCAPS staff assistance.

empiovi	ment		
	elop internship opportunities for CMC	GT students	
	Modify student preparation for	Annually in fall	Released and on website, also hosted a
	internship program through		preparation session for Career Fair to
	webinar		CFMSA students.
	Conduct evaluations for	Every term upon	Google survey link emailed to all
	internship students.	completion of	internship students.
		Internship	Limited response obtained.
		session in	
		December, May,	
		and August	
	Expand internship employer	Regular	Contacts as of September 1, 2020: 751
	database	employer contact	
	Distribute virtual career fair	Annually in	Last issued February 2022.
	PDF to prospective employers in	February	20 resumes included.
	employer database		
	Record and monitor the number	Annually,	During 2020–21 there were 126 contact
	of students and alumni using	maintained by	with Career and Internship services fron
	Career and Internship Services	their office	CMGT students.
lb. Exp	and development and endowment opp	ortunities	
	Update program development	Review twice	New College Engagement officer,
	plan	annually with	Courtney Barrette, was hired January
		Development	2018 with a partial role for development
		Officer	Active reengagement of an updated
			development plan commenced, summer
			2018. ONGOING
	Identify and meet with target	At least annually	Coordinated between Barrette and
	funders as outlined in plan		Hilger on various fundraising initiatives
			and connections with donors.
lc. Incr	ease Advisory Board activities and inp	out to program	
	Meet with full Advisory Board	Annually	Meet twice per year, and committees,
	two times/year		when needed, more often.
	Hold committee meetings	As needed	Created Alumni Engagement special
			committee spring 2020 to restructure
			Alumni Group and reengage alumni.

Advisory Board members to	December, May	Excellent response from AB members;
host internship presentations	and August	rotate locations throughout the year, now
each semester		a regular event. ONGOING
4d. Increase outreach and friend-raising ac	 tivities	
Review program-specific	Annually	Change in marketing leadership for our
marketing/media campaigns.		unit in 2019 has resulted in a more
		structured, focused marketing plan. Now
		a regular part of CMGT staff meetings
Staff membership to actively	Peter: CMAA,	Peter: President of local CMAA chapter;
participate in CM trade	CHSA, AIA,	President CHSA 2018–2021; Board
associations	ACE	member ACE, active
ussociations	TICL	participant/presenter at AIA convention
		representing the U of M.
		representing the o or ivi.
Maintain LinkedIn site	Regular updates	Regular posting of news feeds and
Wantam Emacam site	regular apaates	events by Lynn Cross, Mia Boos.
Maintain Facebook page	Regular updates	Staff members Lynn Cross and Mia
		Boos update CMGT facebook page and
		Twitter feeds regularly.
Invite public to program events,	Per occurrence	Internship presentations hosted by
such as internship presentations		Advisory Board members. Quiz Bowl
Golden Pen competition,	,	(October), Golden Pen and Pentathlon
capstone presentations, quiz		(spring) judged by industry
bowls		professionals.
U of M Construction and FM	Regular	Club dissolved and reconstituted under
Alumni Club	Occurrence	CCAPS administration for a more
		uniform program and outreach initiative.
Alumni Database	Regular	Maintain a database of alumni using
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5. Contribute to the growth and improvement	ent of the constructio	
		ž Č
Statistical from brodium		
Show sustainable number of	Ongoing	Summer 2022: <b>38</b>
		Fall 2021: <b>357</b>
Monitor the number of students	Ongoing	Certificate and Minor graduates in AY
		2021/22.
Show sustainable number of graduates from program  Show sustainable number of enrollments in courses	Occurrence  ent of the constructio  Ongoing  Ongoing	social media links and other sources. Coordinated by Megan Seltz.  n industry  CMGT Major graduates in Academic Year 2021–22. Summer 2022: 3 CMGT BASc. Spring 2022: 18 CMGT BASc. Fall 2021: 10 CMGT BASc. Summer 2022: 38 Spring 2022: 353 Fall 2021: 357  Certificate and Minor graduates in AY

certificates each year to show sustainable numbers.		Spring 2022: 6 Certs, 5 Minors Fall 2021: 3 Certs, 3 Minors
Monitor graduate survey to record placement and graduate satisfaction	Ongoing	Complete
Sponsor one outreach event for industry in each academic year	Variable	Hosted Career Fair, online fall 2021, Golden Pen Award Competition. Quiz Bowl, not held 2021 due to COVID.
Create courses that meet needs for industry licensing	Ongoing	OSHA 30 (CMGT 4031 Construction Safety & Loss Control); Minnesota State Stormwater Site Management certificate (CMGT 4081 Managing Erosion and Sediment Control on Construction Sites); CMIT Option (CMGT 4861 Construction Management Capstone); FMP Option (CMGT 4861 Construction Management Capstone)
Create a new Environmental Health and Safety track within the program	Starting fall, 2021	Approved by the Board of Regents and now in the implementation stage; enrolling a cohort model every two years starting 2021. Offered "trial" introductory coursework which was well enrolled.