Washtenaw Community College Comprehensive Report

CMG 150 Introduction to Construction Management Effective Term: Fall 2022

Course Cover

College: Advanced Technologies and Public Service Careers **Division:** Advanced Technologies and Public Service Careers

Department: Heating, Ventilation and A/C **Discipline:** Construction Management

Course Number: 150 Org Number: 14750

Full Course Title: Introduction to Construction Management

Transcript Title: Intro to Const Management

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog, Time Schedule, Web Page

Reason for Submission: Change Information: Objectives/Evaluation

Rationale: Course needs to be approved and in the system to be properly assessed

Proposed Start Semester: Fall 2022

Course Description: In this course students will learn basic concepts of construction site management. The course will focus on effective project development, planning, and scheduling. Topics will include site development, material usage and specifications, cost estimates and management, contract compliance, and task scheduling.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 Student: 45

Lab: Instructor: 0 **Student:** 0 **Clinical: Instructor:** 0 **Student:** 0

Total Contact Hours: Instructor: 45 Student: 45

Repeatable for Credit: NO Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

No Level Required

Requisites

Prerequisite

Academic Reading and Writing Levels of 6

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University Ferris State University Grand Valley State University Jackson Community College Lawrence Tech Michigan State University Oakland University

University of Detroit - Mercy

University of Michigan

Wayne State University

Western Michigan University

Student Learning Outcomes

1. Recognize methods, materials and equipment used by subcontractors.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Winter 2022

Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 75% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

2. Work with a team to develop a construction job portfolio.

Assessment 1

Assessment Tool: Portfolio Assessment Date: Winter 2022

Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

3. List and describe construction documents.

Assessment 1

Assessment Tool: Outcome-related multiple-choice and short-answer exam questions

Assessment Date: Winter 2022

Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric and answer key Standard of success to be used for this assessment: 75% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

Course Objectives

- 1. Establish a contract between a client and a builder.
- 2. Explain different construction deliverables.
- 3. Establish job site requirements.
- 4. Estimate the required quantity of construction materials.

- 5. Identify items on a critical path schedule.
- 6. Identify methods of controlling construction costs.
- 7. Identify materials needed on a construction project.
- 8. Identify the equipment needed on a construction project.
- 9. Organize each task of a construction project into a detailed schedule.
- 10. Describe construction close out procedures.
- 11. Determine construction quality required per contract.
- 12. List construction documents used on site.
- 13. Describe construction sustainability.
- 14. Define construction contractual terms.
- 15. Differentiate between construction and any other industry.
- 16. Describe time saving techniques used in construction.
- 17. Define types of submittals.
- 18. Identify types of construction changes.

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Computer workstations/lab

Reviewer	Action	<u>Date</u>
Faculty Preparer:		
Cristy Lindemann	Faculty Preparer	Aug 14, 2019
Department Chair/Area Director:		
Brian Martindale	Recommend Approval	Aug 24, 2019
Dean:		
Brandon Tucker	Recommend Approval	Aug 29, 2019
Curriculum Committee Chair:		
Randy Van Wagnen	Recommend Approval	Feb 22, 2022
Assessment Committee Chair:		
Shawn Deron	Recommend Approval	Feb 23, 2022
Vice President for Instruction:		
Kimberly Hurns	Approve	Feb 23, 2022

COURSE AND SYLLABUS FORM

llabus Cover Sheet	A STATE OF THE STA	
Course Discipline Code & No: CMG 150 Title: Intro. to	Construction Management	Effective Term
Division Code: HAT Department Code: CI	ND Org #: _147	725
Oon't publish: College Catalog Time Schedule	☐Web Page	
Reason for Submission. Check all that apply. New course approval Five-year syllabus review (Attach assessment results.) Major change	☐ Minor change (Corrections, editing, ☐ Reactivation of inactive course ☐ Inactivation (Submit this page only.)	
Change information: Minor changes Course discipline code & number (was) (when changing course number, select "inactivation" to discontinue the old course.) Course title (was) Course description Course objectives (minor changes) For major changes, consultation with all departments affected by this course is required. Attach "course use in programs" report from Curriculum Database for Faculty.	Major changes (reviewed by Curriculu ☐ Credit hours (credits were: 2) ☐ Total Contact Hours (total contact hours (contact hours (contact hours (contact hours : lab clinical hours : lab clinical hours (contact hours (contact hours : lab clinical hours : lab	nours were:) act hours were:) act hours were:) urse: Add Remove
Rationale for course or course change		
1. Assessment-based:		
2. Non-assessment-based: To bring this course into the same in	nstructional contact and credit hours as th	e other three courses.
approvals Department and divisional signatures indicate that all de	partments affected by the course have be	en consulted.
Department Review by Chairperson New resources	needed All relevant departments o	consulted
Print: LE. PIENCE Signature _	Tell	Date: 0/-0)-
Print: LE . Faculty/Preparer Department Chair Signature	Jed	Date: 01-07-0
Division Review by Dean Request for con	iditional approval	
Recommendation Yes No Dean's/Administrato	r's Signature	Date
Curriculum Committee Review Recommendation		
☐ Tabled ☐ Yes ☐ No	ee Chair's Signature	Date
Vice President of Instruction Approval	· · · · · · · · · · · · · · · · · · ·	/ /
Approval Yes No	/ / octour,	
Do not write in shaded area. ACS Code Entered in: Banner	C&A Database /// Log	1/12/11/0

Please return completed form to the Office of Curriculum & Articulation Services.

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_ AND SYLLABUS FORM

Course Discipline & No.:	litle:		
Credit hours: 3 If variable credit, give range: to credits	Instructor contact hours per semester: Lecture: 30 Lab: 15 Clinical: Practicum Other: Total contact hours: 45	students unless otherwise specified in the Master	Grading options: P/NP (limited to clinical & practica) S/U (for courses numbered below 100) Letter grades
Prerequisites. Select one: ☐ College-level Reading & Writing ☐ Reduced Reading/Writing Scores ☐ COMPASS Reading ☐ COMPASS Writing ☐ No Basic Skills Prerequisite ☐ (College-level Reading and Writing is not required.) Corequisites (must be enrolled in this class also during the same semester):	In addition to Basic Skills in R Level I (enforced in Banner Course/Test MITH 169 COMP ALG and or and or Level II (enforced by instru Course and or and or and or and or and or and or	Concu Enrolli 66 ctor on first day of class) Grade/Score	
Enrollment restrictions (In addition t	uired required	Please send syllabus for transfer evaluation to: EMU UM UM	Instructional mode On campus Online Blended (online and oncampus combined) ITV Other
Course Options General Education Group I (Select one area) Writing		Honors section. Not all criteria are required. Check relevant items. 1. Emphasis on primary source materials 2. Emphasis on independent study/research 3. Greater rigor of course materials 4. Interdisciplinary approach 5. Development of critical thinking skills 6. Additional course objectives 7. Additional instructional methods 8. Satisfaction of the service component	
List all new resources needed for co	urse, including library materia	als.	

WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

CMG 150

SECTION I. SUBMISSION INFORM	IATION	
1. Course:	e: Introduction to Construction Management	Start Term <u>200301</u>
	tment Code: CIND Org #: 14725	Don`t publish: □in College Catalog □in Time Schedule □on Web Page
2. Type of Approval: ☐ Full Approval ☐ Conditional Approval ☐ This proposal previously received conditional approval for the term: Fall 2002	3. Reason for Submission: This Course is be New Course Approval Five-year Syllabus Review No change Major Change(s) Minor Change(s)* Reactivation of Inactive Course Inactivation *If requesting a change to a course that has condition	eing submitted for: (check all that apply) ges to course
4. Change Information: Minor Changes Course Discipline/Number (was Course Title (was Course Description Class Capacity (was:) Pre or Co-requisites Course Objectives (minor change Distribution of Contact Hours (colect: lab clin Other	Change in Grading Total Contact Hou Approval for offeri Approval for offeri Approval for offeri Solution Other	its were: 3) g Method rs (total contact hours were:) ing an Honors Section ing Distance Learning Sections a Distribution Course: Add Remove es (that affect other departments)
SECTION II. SIGNATURES 1. Department Review Will any new resources be required	Changes are are being made in responsible the EMU course that is being taught conjointly for the EMU course that is being taught conjointly for the EMU course that is being taught conjointly for the EMU course that is being taught conjointly for the EMU course that is being made in responsible to the EMU course that is being made in responsible to the EMU course that is being taught conjointly for the EMU cours	
Does the department support appropriate LES Plence Print: LES Plence Print: LES Plence Department C	val of this course? \(\subseteq \text{yes} \) no Signature \(\subseteq \text{VW} \) Signature \(\subseteq \text{VW} \)	Date: // O5 02 Date: // O5 07
2. Division Review Is this a curricular priority for your What is the estimated enrollment? Recommendation ☒ Yes ☐ No	division? yes no (Comment Dean's Signature	Date
3. Curriculum Committee Review Recommendation ☐ Yes ☐ No	Curriculum Committee Chair's Signature	Date
4. Vice President for Instruction and Approval Yes No	Student Services Approval Executive Vice President's Signature	1/5/2 Date
ACS Code Entered in I Approved for General Education Area/Group	Banner Entered in Access Syllabus Da	Log File

WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

CMG 150

SECTION III. COURSE SYLLABUS

A. COURSE DETAILS

Discipline & No.: <u>CMG 150</u>	Title: Introduction to Construction Management
1. Description:	
This course covers an introduction	on to developing, planning, and scheduling construction projects. Additional topics include: site

This course covers an introduction to development, material usage, specifically specific to the course covers an introduction to the covers and the cove	to developing, planning, and scheduling ications, estimating and managing cost	g construction projects. Add control.	itional topics include: site
2. Credit Hours: 2	3. Contact Hours per Semester:	4. Class Capacity:	5. Course Options:
If Variable credit, Give Range:	Lecture: 30	24	☐Distance learning
to credits If repeatable for credit, how many times	Lab: Clinical: Other: Total Contact Hours: 50		Honors
6. Prerequisite(s) Min and/or "(" Course Grade	*Concurrent	Min. **Level	P/NP Grading Other Prerequisites
and/or "(" Course Grade	Enrollment Test Name	Score ")" I II	
	COMPASS Algebra=66		
	College Level Read ing		ALCO TO THE PARTY OF THE PARTY
	College Level Writing		
			G
			Consent Required
			7. Corequisites:
8. Course Purpose:	If a program requirement, specify	Please send syllabus for	Accepted for transfer:
☐ Program Requirement☐ General Education	the program(s)	Transfer evaluation to: ☑ EMU	□ EMII
Program Support	Construction Project Management	□ UM	☐ EMU ☐ UM
Basic Skills/Developmental		Ferris State	
Transfer			
☐ Industry/Professional Dev			
Enrichment			
9. Terms Course will be offered: Terms Session Leng	Alla (a. a. 15		n years Odd years
Terms Session Leng 	th (e.g. 15 weeks. 1 st 7½ weeks. etc.)	Day Eve on □ □	ly only
⊠ Winter			
⊠ Spr/Summer			

B. MAJOR INSTRUCTIONAL UNITS

- 1. Introduction to Construction
- 2. Types of Construction
- 3. Planning Construction Projects
- 4. Scheduling
- 5. Site Development
- 6. Materials and Their Uses

WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

CMG 150

SECTION I. SUBMISSION INFORM 1. Course:	MATION		
	e: Introduction to Constr	uction Management	Start Term F02
	tment Code: CIND	Org #:14725	Don't publish: □in College Catalog □in Time Schedule □on Web Page
2. Type of Approval: Full Approval Conditional Approval This proposal previously received conditional approval for the term:	New Course Ap	oproval bus Review No chan s) s)* Inactive Course	eing submitted for: (check all that apply)
4. Change Information: Minor Changes Course Discipline/Number (was Course Title (was Course Description Class Capacity (was:) Pre or Co-requisites Course Objectives (minor change Distribution of Contact Hours (collect: lab clin Cother	es) ontact hours were:	☐ Change in Grading ☐ Total Contact Hou ☐ Approval for offer ☐ Approval for offer ☐ General Education	its were:) g Method rs (total contact hours were:) ing an Honors Section ing Distance Learning Sections Distribution Course: Add Remove es (that affect other departments)
5. Rationale This course is designed to meet the necessity of the second	Changes are a eds of ACCE accreditation	are being made in respon and transfer requiremen	ise to data from Assessment: yes no not not not not not not not not not
Department Review Will any new resources be required:	nat may be affected by this] Yes ⊠ s course. List departmer	nts contacted below and attach relevant
Does the department support approv		yes no	
Print: <u>Patricia Crider</u> Faculty/Prepa	Signature	tricia Crid	Date: 3.26-02
Print: Patricia Crider Department Cl	Signature J	atricia Crider	Date: 3.26.02
2. Division Review Is this a curricular priority for your of What is the estimated enrollment? Recommendation Yes No	division? Yyes r	no (Comment	3/27/02
3. Curriculum Committee Review	Dean's signature		Date /
Recommendation Yes No	Curriculum Committe	o Chair's Signature	
4. Vice President for Instruction and			Date
Approval Yes No	Executive Vice Presid		Date 1, 2/62
ACS Code Entered in E Approved for General Education Area/Group			Log File 4/9/12

WASHTENAW COMMUNITY COLLEGE COURSE-SYLLABUS APPROVAL FORM (CSAF)

CMG 150

SECTION III. COURSE SYLLABUS

A. COURSE DETAILS

Discipline & No.: <u>CMG 150</u>	Title:	Introduction to Construction Management
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1. Description:			
This course covers an introduction to development, material usage, specifications of the course covers an introduction to development, material usage, specifications of the course covers an introduction to development.	o developing, planning, and scheduling ications, estimating and managing cost	construction projects. Addit control.	ional topics include: site
2. Credit Hours: 03	3. Contact Hours per Semester:	4. Class Capacity:	5. Course Options:
If Variable credit, Give Range:tocredits	Lecture: 45 Lab:		☐Distance learning
If repeatable for credit, how many times	Clinical: Other: Total Contact Hours: 45		Honors
			☐ P/NP Grading
	*Concurrent Enrollment Test Name	Min. **Level Score ")" I II	Other Prerequisites
CM 152 a 160 or 169	Lacing & ler	1	Consent Required 7. Corequisites:
8. Course Purpose:	If a program requirement, specify	Please send syllabus for	Accepted for transfer:
Program Requirement	the program(s)	Transfer evaluation to:	recepted for transfer.
General Education	Contstruution Project Management	⊠ EMU	EMU
Program Support	- Indiana - Indi	☐ UM	UM
Basic Skills/Developmental			
☐ Transfer			
☐ Industry/Professional Dev ☐ Enrichment			
9. Terms Course will be offered:			
	th (e.g. 15 weeks, 1 st 7½ weeks, etc.)	_	n years Odd years
Fall	(0.g. 15 weeks, 1 7/2 weeks, e(c.)	Day Eve on	ly only
Winter			Ħ
Spr/Summer			

B. MAJOR INSTRUCTIONAL UNITS

- 1. Introduction to Construction
- 2. Types of construction
- 3. Planning Construction Projects
- 4. Scheduling
- 5. Site Development
- 6. Materials and their Uses

Title: Introduction to Construction Management

Course Description:

This course covers an introduction to developing, planning, and scheduling construction projects additional topics include: Site developments, material usage, specifications, estimating, and managing cost control.

Outline:

- I. Introduction to Construction
- II. Types of Construction
- III. Planning Construction Projects
- IV. Scheduling
- V. Site Development
- VI. Materials and their Uses
- VII. Construction Specifications
- VIII. Introduction to estimating
- IX. Managing Cost Control