Business & Entrepreneurship

Construction Management (AACMG)

Associate in Arts Degree

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

Articulation:

Eastern Michigan University, several BS degrees

This program meets MTA. Students must have their transcripts certified for MTA completion by the WCC Student Records Office.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php .

Program Admission Requirements:

Two years of high school algebra is recommended.

First Semester		(16 credits)
CMG 130	Construction Site Safety and OSHA Regulations	3
CMG 150	Introduction to Construction Management	3
ENG 111	Composition I	4
MTH 178	General Trigonometry	3
Elective	Arts/Human. Elective(s) 1	3
Second Semest	ter	(16 credits)
BMG 240	Human Resources Management	3
CMG 180	Application of Construction Materials	3
ECO 211	Principles of Economics I	3
MTH 160	Basic Statistics*	4
Elective	Speech/Comp. Elective(s)	3
Third Comparison		
Third Semester		(16 credits)
ACC 111	Principles of Financial Accounting	3
BMG 207	Business Communication	3
CMG 170	Construction Graphics	3
GLG 114	Physical Geology	4
Elective	Arts/Human. Elective(s) 2	3
Fourth Semest	er	(12 credits)
BMG 111	Business Law I	3
CMG 200	Construction Systems	3
Elective	Nat. Sci. Elective(s) 2	3
Elective	Soc. Sci. Elective(s) 2	3
Minimum Credi	its Required for the Program:	60

Notes:

*MTH 160 should be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will be required unless waived by ACT/SAT or math placement score.

Students transferring to EMU should see the articulation agreement for additional courses that can be taken at WCC.

Skilled Trades

Construction Management (AACMG)

Associate in Arts Degree

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

Articulation:

Eastern Michigan University, several BS degrees

This program meets MTA. Students must have their transcripts certified for MTA completion by the WCC Student Records Office.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php .

Program Admission Requirements:

Two years of high school algebra is recommended.

First Semester		(16 credits)
CMG 130	Construction Site Safety and OSHA Regulations	3
CMG 150	Introduction to Construction Management	3
ENG 111	Composition I	4
MTH 178	General Trigonometry	3
Elective	Arts/Human. Elective(s) 1	3
Second Semest	er	(16 credits)
BMG 240	Human Resources Management	3
CMG 180	Application of Construction Materials	3
ECO 211	Principles of Economics I	3
MTH 160	Basic Statistics*	4
Elective	Speech/Comp. Elective(s)	3
Third Semester		(16 credits)
ACC 111	Principles of Financial Accounting	3
BMG 207	Business Communication	3
CMG 170	Construction Graphics	3
GLG 114	Physical Geology	4
Elective	Arts/Human. Elective(s) 2	3
Fourth Semest	er	(12 credits)
BMG 111	Business Law I	3
CMG 200	Construction Systems	3
Elective	Nat. Sci. Elective(s) 2	3
Elective	Soc. Sci. Elective(s) 2	3
Minimum Credi	ts Required for the Program:	60

Notes:

*MTH 160 should be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will be required unless waived by ACT/SAT or math placement score.

Students transferring to EMU should see the articulation agreement for additional courses that can be taken at WCC.

Transfer

Construction Management (AACMG)

Associate in Arts Degree

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

Articulation:

Eastern Michigan University, several BS degrees

This program meets MTA. Students must have their transcripts certified for MTA completion by the WCC Student Records Office.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php .

Program Admission Requirements:

Two years of high school algebra is recommended.

First Semester		(16 credits)	
CMG 130	Construction Site Safety and OSHA Regulations	3	
CMG 150	Introduction to Construction Management	3	
ENG 111	Composition I	4	
MTH 178	General Trigonometry	3	
Elective	Arts/Human. Elective(s) 1	3	
Second Semest	er de la companya de	(16 credits)	
BMG 240	Human Resources Management	3	
CMG 180	Application of Construction Materials	3	
ECO 211	Principles of Economics I	3	
MTH 160	Basic Statistics*	4	
Elective	Speech/Comp. Elective(s)	3	
Third Competer		(1C and the)	
Third Semester		(16 credits)	
ACC 111 BMG 207	Principles of Financial Accounting Business Communication	3	
CMG 170	Construction Graphics	3	
GLG 114	Physical Geology	4	
Elective	Arts/Human. Elective(s) 2	3	
LIECTIVE	Arts/Human. Elective(s) 2	J	
Fourth Semest	er	(12 credits)	
BMG 111	Business Law I	3	
CMG 200	Construction Systems	3	
Elective	Nat. Sci. Elective(s) 2		
Elective	Soc. Sci. Elective(s) 2	3	
Minimum Credits Required for the Program:			

Notes:

*MTH 160 should be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will be required unless waived by ACT/SAT or math placement score.

Students transferring to EMU should see the articulation agreement for additional courses that can be taken at WCC.

Program Code: AACMG	Current Program Name: Management	Construction	Effective Term: Fall 2024
Division Code: ATP	Department: HVAD		
 on a separate sheet. 3. Check the boxes below for eac new courses as part of the prop submitted at the same time as t 4. If changes affect the program a <u>Assessment Plan Change</u> form 	t should be deleted and write h type of change being propo osed program change, must he program change form. Issessment plan or if program. . These changes must be app	in additions. Extensive sed. Changes to cours be approved separatel outcomes are updated proved separately from	e narrative changes can be included ses, discontinuing a course, or adding y using CurricUNET, but should be
Requested Changes: Remove course(s): Add course(s): Program title (new title is _ Description Advisors Program admission require Continuing eligibility require Show all changes on the cataloo * Please submit a Program Asse	ments ements <mark>g page you attach</mark> .	removing or add Program assess Accreditation inf Other <u>Layout ch</u> Note: A change to the of a new program program inactivatio	sment plan* formation
Rationale for proposed chan Division is updating layouts to alig	-	layouts	
Financial/staffing/equipment	/space implications:		
List departments that have b	een consulted regarding	their use of this pr	ogram.

Signatures:

Reviewer	Print Name	Signature	Date	
Initiator	Brian Martindale	"/s/ Brian Martindale"	1/8/24	
Department Chair	Brian Martindale	"/s/ Brian Martindale"	1/8/24	
Division Dean/Administrator	Jimmie Baber	Jimmie Baber	1/8/2024	
Please return completed form to the Office of Curriculum & Assessment, SC 257				
or by e-mail to curriculum.assessment@wccnet.edu				
Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.				
Reviewer Print Name Signature				

PROGRAM CHANGE FORM

Curriculum Committee Chair	Randy Van Wagnen			
Assessment Committee Chair	Jessica Hale			
Interim Vice President for Instruction	Dr. Brandon Tucker			
Do not write in shaded area	a. Entered in: Banner	C&A Database	Log File	

Reviewed by C&A Committees 2/29/24

Program layout updated due to course resequencing. Change made to facilitate data migration for new Course Leaf software. Per 2/1/24 C&A committees' meeting, resequencing with minimal effect to credit hours/per semester does not require C&A Committee review.

WCC General Education Requirements Effective Fall 2018

Associate degree programs were updated to meet the revised WCC general education requirements below.

Course Distribution Requirements

Associate degree students must complete courses from each of six General Education content areas. The requirements vary, depending on which degree is being earned. The number of general education credit hours required for each degree is as follows.

	AA	AS	AAS
Writing/Composition	3-4 credits	3-4 credits	3-4 credits
2nd Writing/Composition or Communication	3-4 credits	3 credits	3 credits
Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences ¹	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science ²	6 credits	6 credits	3 credits
Arts and Humanities ³	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

¹ Two courses in Natural Science including one with laboratory experience (from two disciplines)

² From two disciplines

³ From two disciplines

Construction Management (AACMG) Associate in Arts Degree Program Effective Term: Fall 2018

High Demand Occupation High Skill Occupation High Wage Occupation

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

Articulation:

Eastern Michigan University, several BS degrees.

This program meets MACRAO. Students must have their transcripts certified for MACRAO completion by the WCC Student Records Office.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/curriculum/articulation/levelone/colleges/.

Program Admission Requirements:

Students must have an Academic Math Level of 4 to enroll in CMG 150. Two years of high school algebra is recommended.

First Semes	ter	(11 credits)
CMG 150	Introduction to Construction Management	3
ENG 111	Composition I	4
MTH 160	Basic Statistics*	4
Second Sem		(15 credits)
ACC 111	Principles of Accounting I	3
CMG 130	Construction Site Safety and OSHA Regulations	3
MTH 178	General Trigonometry	3
	Arts/Human. Elective(s) 1	3
	Speech/Comp. Elective(s)	3
Third Semes		(12 credits)
BMG 240	Human Resources Management	3
CMG 180	Application of Construction Materials	3
ECO 211	Principles of Economics I	3
	Nat. Sci. Elective(s) 1	3
Fourth Sem	ester in the second state of the	(16 credits)
BMG 207	Business Communication	3
CMG 170	Construction Graphics	3
GLG 114	Physical Geology	4
	Soc. Sci. Elective(s) 2	3
	Arts/Human, Elective(s) 2	3
Fifth Semes	ter.	(6 credits)
BMG 111	Business Law I	3
CMG 200	Construction Systems	3
Minimum Cr	edits Required for the Program:	60

Notes:

*MTH 160 should be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will be required unless waived by ACT/SAT or math placement score.

Students transferring to EMU should see the articulation agreement for additional courses that can be taken at WCC.

Monday, June 25, 2018 11:51:22 a.m.

Done 1/16/18

WASHTENAW COMMUNITY COLLEGE GENERAL EDUCATION REVISION PROGRAM CHANGE FORM FOR AA AND AS PROGRAMS 2018-2019

Program Code:	AACMG	Program Name: Construction	Mangement
Division Code:	ATTS MSE	Department: CIND	, Jense

This form is to be used only for General Education Revision Program Changes for Associate in Arts (AA) and Associate in Science (AS) programs. Any other program changes should be submitted separately using a standard Program Change Form.

Directions:

- 1. Review each general education area under Requested Changes below and respond as needed.
- 2. Attach the semester program layout showing the current program listing from the WCC catalog.
 - a. Indicate any changes to be made on the semester layout.
 - b. Draw a line through any courses that should be removed on the semester layout.
 - c. Write in any courses that need to be added on the semester layout.
- 3. Submit this form and semester program layout to the Office of Curriculum and Assessment (SC 257).

Current General Education Requirements		Revised General Education Requirements 2018-2019		
AA and AS		AA and AS		
Writing	6 - 7 credits	English Composition	3 - 4 credits	
Speech Mathematics	3 credits 3 - 4 credits	2 nd Course in English Composition or one course in Communication	3 - 4 credits	
Natural Sciences	3 - 4 credits	Mathematics	3 - 4 credits	
Social & Behavioral Sciences Arts & Humanities	6 credits 6 credits	Natural Sciences from 2 disciplines including one lab course	7 - 9 credits	
Critical Thinking	0 credits	Social & Behavioral Sciences from 2 disciplines	6 credits	
Computer & Information Literacy3 creditsArts & Humanities from 2 disciplinesTotal30 - 33 creditscredit hours		Arts & Humanities from 2 disciplines	6 credits	
		0 - 3 credits		
a serie i contra lo 2 de la serie de la		Total	30 credits	

Please review each General Education Area in the chart below, and record the needed changes in the chart and on the attached semester layout.

	REQUESTED CHANGES
	General Education Area
1	English Composition – The requirement for one writing/English composition course remains the same. No changes will be made unless specifically requested below. (Use Writing Elective or ENG 111) Optional Change:
	 2nd Course in English Composition or one course in Communication WCC previously required both a second composition/writing course and a communication course. Your options are: Allow students to select any course that meets composition/writing or communication (recommended). Require students to take a specific composition course (identify course below and on semester layout). Require students to take a specific communication course (identify course below and on semester layout).

Requested Change:

	 2nd Course in English Composition or one course in Communication Credit Hours Because of this change, an extra 3 – 4 credit hours may be available in the program. Please specify how you would like to use those credit hours. Your options are: Reduce the number of credit hours if the program total is over 60 (recommended). Replace the course with elective credits as needed to reach a minimum of 60 credit hours. Add a specific program-related course (please add the course in the semester it should be taken on the semester layout).
	Mathematics – The requirement for one mathematics course remains the same. However, the courses that meet the MTA requirement have changed slightly. MTH 148, 149 and 167 do not meet the general education requirement for AA or AS degrees. Please identify an alternate course or list "Math elective". Optional Change:
	 Natural Sciences from 2 disciplines including one lab course WCC previously required one natural science course. Your options are: No change needed – a second natural science course is already included in my program. Add a second natural science course in the semester shown on the semester layout attached. Unless specific courses are required, include one course identified as a lab science course. Requested Change:
	Social & Behavioral Sciences from 2 disciplines – The requirement for two social and behavioral science courses remains the same. No changes will be made unless specifically requested below. Optional Change:
	Arts & Humanities from 2 disciplines – The requirement for two arts and humanities courses remains the same. No changes will be made unless specifically requested below. (Note: A department can designate a COM course as a requirement here. The same course cannot be counted in two areas.) Optional Change:
	 Computer and Information Literacy The requirement for computer and information literacy has been removed. Your options are: Continue to require a specific computer course. If a specific course is required in your program, we will leave it there. If you previously used "Computer and Information Literacy Course," you will need to specify either a specific course or a list of courses from which to choose. Remove the computer and information literacy course if the program will still meet the minimum of 60 credit hours. Remove the computer and information literacy course and replace the course with elective or other credits as needed to meet the minimum of 60 credit hours. Required Change:
	Elective Credits to reach a minimum of 30 credit hours – A course titled "General Education Credit(s) to Reach a Minimum of 30 Credit Hours" will be created and then added as needed to the program.
Do	

Reviewer	Print Name	Signature		Date
Initiator				
Department Chair				
Division Dean/ Administrator				
Vice President for Instruction	Kimberly Hurns	et m	12	1/9/18
		V	1	11

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Program Code: AACMG	Program Name: Construction Mana	gement Effective Term: SS09	
Division Code: VCT			
	Department: Construction		
Directions:	an a		
1. Attach the current program	n listing from the WCC catalog or Web si	te and indicate any changes to be made.	
 Draw lines through any tex sheet. 	xt that should be deleted and write in add	tions. Extensive narrative changes can be included on a se	parate
3. Check the boxes below for part of the proposed progr time as the program chang	ram change, must be approved separately	nanges to courses, discontinuing a course, or adding new co using a Master Syllabus form, but should be submitted at th	ourses ne san
Requested Changes:			
Review		_	
$\overline{\boxtimes}$ Remove course(s):		Program admission requirements	
COM101,CEM105,PLS112,F	PSY100,ENG181,PHL205ARC117 MTH176,PHY111,alternatives	Program outcomes	
Program title (title was)	Accreditation information	
Description	,	Discontinuation (attach program discontinuation pl includes transition of students and timetable for ph	lan th
Type of award Advisors		out courses)	lasing
Articulation information		Other <u>notes</u>	
Show all changes on the attac	thed page from the catalog.		
Rationale for proposed cha	nges or discontinuation:		
Eastern Michigan University	changes to the Articulation agreement w	ith Washtenaw Community College	
Financial/staffing/equipm	ent/space implications:		
			
	been consulted regarding their use of	this program.	
Drafting			
lignatures:		<u>^</u>	
Reviewer	Print Name	Signature Dat	te
nitiator	Cristy Lindemann	Jump 1.30	<u>· U</u>
Department Chair	Cristy Lindemann	(uprorn 1.30). C
Division Dean/Administrator	Bruce Greene	Tok 1. alal	09
Vice President for Instruction	Roger Palay	Marger M. Juluy. 2/29	11-
		V // //	
President	Larry Whitworth		

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

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WASHTENAW COMMUNITY COLLEGE

Washtenaw Community College.

Certificates and Degrees.

http://www.wccnet.edu/academicinfo/creditofferings/programs/degree.php?code=AACMG

Return to web format »

Construction Management (AACMG)

Associate in Arts Degree

Program requirements shown below are for catalog year: 2008 - 2009 - Change Year

Description:

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

Contact Information:

Division: Vocational Technologies School: <u>School of Construction Technology</u> Department: <u>Construction Institute</u> Advisors: <u>Cristy Lindemann</u>

Articulation:

Eastern Michigan University, several BS degrees.

This program meets MACRAO. Students must have their transcripts certified for MACRAO completion by the WCC Student Records Office.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <u>http://www.wccnet.edu/departments/curriculum/articulation.php?</u> levelone=colleges.

Admission Requirements:

Academic Math Level 4 or <u>MTH 169</u> with a "C" or better is required to enroll in <u>CMG 150</u>. Two years of high school algebra is recommended.

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http://www.wccnet.edu/academicinfo/creditofferings/programs/degree.php?code=AACMG&printfriendly... 1/30/2009

and Degrees: Construction Management Associate in Arts Deg	gree (AACMG)
Construction Site Safety and MIOSHA Regulations	3
Introduction to Construction Management	3
Construction Graphics	3
Construction Systems	3
port Courses	(21 Credits)
Principles of Accounting I	3
Business Communication	3
Human Resources Management	3
Introduction to Computers and Software Applications	3
Principles of Economics I	3
General Trigonometry	3
Legal Basics in Business	
Business Law I	3
	Construction Site Safety and MIOSHA Regulations Introduction to Construction Management Construction Graphics Construction Systems Construction Systems Principles of Accounting I Business Communication Human Resources Management Introduction to Computers and Software Applications Principles of Economics I General Trigonometry Legal Basics in Business

Minimum Credits Required for the Program: Notes: MTH 160 should be completed of WCC to Satisfy EMU's Quantitative Reasoning Kequirement. If completed at EMU, MATTHID will be required Footnotes: Unders waived by ACT/SAT or math placement score.

Students must meet the Computer and Information Literacy Graduation Requirement. See General Education Graduation Requirements in the WCC Bulletin.

This website is for informational purposes only and is not to be construed as a binding offer or contract between WCC and the student. The information presented here is believed accurate, but is NOT guaranteed and is subject to change without notice.

For official information, see an Advisor.

Return to web format »

Page 2 of 2

School of Construction Technology

Become part of the growing global community of Skilled Trades professionals or Skilled Trades managers. Design, plan, construct and complete structures for your home or for your career. You can earn a certificate or degree in Residential Construction, Construction Management or Heating, Ventilation and Air Conditioning. These programs offer the perfect blend of classroom education and hands-on training. At the Henry S. Landau Design and Construction Training Center, you will be taught construction skills from the ground up. You can learn classic

skills such as woodworking or modern techniques needed to maintain or improve your own structure. On the main campus, the HVAC program offers a wide range of training to equip high-end technicians with the knowledge and skills needed for successful entry into the field.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate and General Education requirements.

Construction Management

Prepare for work in the construction management or property maintenance industries through the completion of these programs.

Construction Management (AACMG)

Associate in Arts Degree

Program Effective Term: Fall 2009

This program prepares students for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to technical, business and math/science requirements for the bachelor's degree program at Eastern Michigan University.

Articulation:

Eastern Michigan University, several BS degrees.

This program meets MACRAO. Students must have their transcripts certified for MACRAO completion by the WCC Student Records Office.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges.

Program Admission Requirements:

Students must have an Academic Math Level of 4 to enroll in CMG 150. Two years of high school algebra is recommended.

General Educa	tion Requirements (32 credits)
ENG 111	Composition I 4
ENG 226	Composition II
Speech	Elective(s)* 3
MTH 160	Basic Statistics**
GLG 114	Physical Geology 4
ECO 211 and	Principles of Economics I
Soc. Sci.	Complete two additional courses, one in a subject other than ECO. 6
Arts/Human.	Elective(s) 6
14	
CMG 130	equirements (15 credits)
CMG 130	Construction Site Safety and MIOSHA Regulations 3

Thursday, February 26, 2009 4:19:6 p.m.

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Program Information Report

CMG 150 CMG 170 CMG 180 CMG 200	Introduction to Construction Management Construction Graphics Application of Construction Materials Construction Systems	
Required Supp ACC 111 BMG 207 BMG 240 CIS 100 ECO 211 MTH 178 BMG 106 or BMG 111	Principles of Accounting I Business Communication Human Resources Management Introduction to Computers and Software Applications Principles of Economics I General Trigonometry Legal Basics in Business Business Law I	

Minimum Credits Required for the Program:

Notes:

*Choose any COM course that meets General Education Requirements. **MTH 160 should be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will be required unless waived by ACT/SAT or math placement score.

Students transferring to EMU should see the articulation agreement for additional courses that can be taken at WCC.

Students must meet the Computer and Information Literacy Graduation Requirement. See General Education Graduation Requirements in the WCC Bulletin.

Construction Management (AACMG) Associate in Arts Degree

Program Effective Term: Fall 2004

This program prepares you for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program transfers to Eastern Michigan University and Ferris State University. In addition to the required courses within the degree program, students may transfer additional courses taken at WCC that will be applied to Technical, Business and Math/Science requirements for the bachelor's degree program at Eastern Michigan University.

Articulation:

This program has articulation agreements with:

- Eastern Michigan University, College of Technology, for the Bachelor of Science in Construction Management.
- Ferris State University, College of Technology, for the Bachelor of Science in Construction
- The program meets MACRAO plus EMU's additional four requirements. Students must have their WCC transcripts endorsed for MACRAO completion.
- Copies of articulation agreements can be obtained from the Counseling Office or a program advisor.

Program Admission Requirements:

A minimum COMPASS Algebra score of 66, or MTH 169 with a "C" or better is required to enroll in CMG 150 and MTH 160. Two years of high school algebra is recommended.

Continuing Eligibility Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

General E	Education Requirements	(30 credits)
COM 101	Fundamentals of Speaking	3
ENG 111	Composition I	4
ENG 226	Composition II	3
MTH 160	Basic Statistics	4
PHL 205	Ethics	3
PLS 112	Introduction to American Government	3
PSY 100	Introductory Psychology	3
CEM 105 or	Fundamentals of Chemistry	
CEM 111	General Chemistry I	4
ENG 181 or	African American Literature	
ENG 214	Literature of the Non-Western World	3
Major/Are	a Requirements	(15 credits)
ARC 117	Construction Materials	3
CMG 130	Construction Site Safety and MIOSHA Regulation	is 3
CMG 150	Introduction to Construction Management	3
CMG 170	Construction Graphics	3
CMG 200	Construction Systems	3
Required	Support Courses	(21 credits)
ACC 111	Principles of Accounting I	3
BMG 207	Business Communication	3
BMG 240	Human Resources Management	3
CIS 100	Introduction to Software Applications	3
ECO 211	Principles of Economics I	3
MTH 178	General Trigonometry	3
BMG 106 or	Legal Basics in Business	
BMG 111	Business Law I	3

Minimum Credits Required for the Program:

66

Construction Management (AACMG) Associate in Arts Degree

Program Effective Term: Fall 2002

This program prepares you for entry-level jobs in the construction industry as well as for transfer to a bachelor's degree program in construction management at a four-year college or university. Students who transfer will continue developing the skills needed to work for construction contractors, engineering/architectural firms, public agencies, or trade associations in positions such as office engineer, field engineer, safety engineer, project engineer, foreman, estimator, scheduler, expeditor, quality control engineer, inspector, material representative or independent contractor. The program was specifically designed for transfer to Eastern Michigan University. However, this program also transfers to Ferris State University.

In addition to the required courses within the associate in arts degree, students may transfer additional courses taken at WCC that will be applied to Technical, Business and Math/Science requirements for the bachelor's degree program at Eastern Michigan University.

Health and Applied Technologies Division Construction Institute Department

Advisor: Patricia Crider

Articulation:

This program has articulation agreements with

- Eastern Michigan University, College of Technology, Bachelor of Science in Construction Management. -The program meets MACRAO plus EMU's additional four requirements. Students must have their WCC transcripts endorsed for MACRAO. For more on MACRAO, see Appendix A.

-Ferris State University, College of Technology, Construction and Technology Management Department, Bachelor of Science in Construction

Program Admission Requirements:

Two years of high school Algebra, or a minimum COMPASS Algebra score of 66, or MTH 169 with a "C" or better

Continuing Education Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

General E	ducation Requirements	(30 Credits)
COM 101	Fundamentals of Speaking	3
ENG 111	Composition I	4 3 4 3 3 3
ENG 122	Composition II	3
MTH 160	Basic Statistics	4
PHL 205	Ethics	3
PLS 112	Introduction to American Government	3
PSY 100	Introductory Psychology	3
Choose:	CEM 105 Fundamentals of Chemistry or	
	CEM 111 General Chemistry I	4
Choose:	ENG 181 African American Literature or	
•••••	ENG 214 Literature of the Non-Western World	3
	- Deguiremente	(17 Credits)
	ea Requirements	•
ARC 117	Construction Materials	3 s 3 3 4
CMG 130	Construction Site Safety and MIOSHA Regulation	3 7
CMG 150	Introduction to Construction Management	4
CMG 170	Construction Graphics	4
CMG 200	Construction Systems	7
Required	Support Courses	(21 Credits)
ACC 111	Principles of Accounting I	3
BMG 207		3
BMG 240	Human Resources Management	3
CIS 100	Introduction to Software Applications	3 3 3 3 3 3 3
ECO 211	Principles of Economics I	3
MTH 178	General Trigonometry	3
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Choose:

Minimum Credits Required for the Program:

Footnotes: *See your advisor to select appropriate electives

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Program Code

Washtenaw Community College **Program Change Request Form** Program Title: Construction Management (Apeonm)

Effective Year: Fall2002

	i i rogram Changes:		- 	_	
Course	Course Title	Elective Group (if applicable)	Credit	Sem	Change(s)
GENERAL EDUCATION	1. Complete The General Education Requirements For The Aas Degree		21.0 0		Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
CTRCT	2. Complete The Residential Construction Certificate (CTRCT)		19.0 0		Remove X Add C Change Title C Change Credit (was:) Shift in Sequence (was:)
CVMGTA	3. Complete The Management Supervision Advanced Certificate (CVMGTA)		12.0 0		Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
ELECTIVES	4. Complete 11 Credit Hours As Free Electives To Bring The Program Total To 60 Credits.		11.0 0		Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
GENERAL EDUCATION	See Complete The General Education Requirements For An Associate In Science Degree. The Attached Ppaf Which Lists The Specific Courses.		36.0 0		Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
MAJOR AREA	See The Attached Ppaf Which Lists The Major/Area Requirements.		17.0 0		Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
REQUIRED SUPPORT	See The Attached Ppaf Which Lists The Required Support Courses.		16.0 0		Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
					Remove Add Change Title Change Credit (was:) Shift in Sequence (was:)
2. Total Credit Hours for Program: Before Proposed Changes: <u>60</u> After Proposed Changes: <u>69</u>					
Non-Course Related Program Changes: (description, advisors, admission criteria, title, etc.) The Construction Management-Fransfer, Associate in Science (AS) Degree Description: This program prepares you for transfer to a Bachelor's degree program in Construction Management at a four-year college or university, where you will continue developing the skills needed for middle and upper level management in general contracting. The program was specifically designed for transfer to Eastern Michigan University. Advisor: Patricia Crider					

4. Rationale for Proposed Changes: Provide students with an alternative to the Residential Construction Certificate and Occupational Education AAS degree track with courses that articulate to four-year institutions.

5. Financial/Staffing/Equipment/Space Implications: None

6. Has the department consulted with all departments that may be impacted? Yes 🛛

NA 🗌

No 🗌

7. Signatures:

Reviewer	Print Name	Signature	Date
Program Change Initiator:	Patricia Crider	Patricia Crider	4-9-02
Department Chair:	Patricia Crider	Patricia Crider	4-9-02
Division Dean:	Granville Lee	All. an	4/9/02
VP, Instruction/Student Services:		MA	11/28
Data File	Curriculum File	Catalog.	7,00

Curriculum and Articulation Services:

	Major Area Requirements:
	ARC 117 Construction Materials
	& MIOSHA Regulations
	CMG 150 Introduction to Construction
	Management
	CMG 170 Construction Graphics4 CMG 200 Construction Systems4
	17 Credits
	Required Support Courses:
	ACC 111 Principles of Accounting I3
	BMG 106 Legal Basics in Business
	BMG 111 Business Law I
	BMG 207 Business Communication 3
	BMG 240 Human Resource Management 3 CIS 100 Introductions to Software Applications3
	PEA 102 Cardiovascular Training1
	16 Credits
Minimum credit required for the	program: 69 68
7. Program Development Plan (time	table, costs, personnel):
Courses to be available for Fall 2002	
Signatures:	
Department Chair/Director:Patri	cia Crider dinicia Indu Date: April 8, 2002
Comments:	()
	May P- 11
Dean(s)/Administrator: Granville	Lee All Www Date: 4/9/
	102
Comments:	- /
Executive Vice President of Instruction:	
Approved for development o	f PAD (Program Approval Document)
Returned for additional revie	w/development of PPAF (details attached)
\Box Not approved M	Λ (1)
Signature:	7 Date: 7 20
Office of Curriculum and Articulation Services	2

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Proposed Name of Program: Construction Management

Faculty/Initiator(s):Patricia Crider				
Division: <u>HAT</u>	Department: <u>CIND</u>	Estimated Start up Term: Fall 2002		
Type of Program:	A.A. A.S.	A.A.S.		
Certificate of Completion	Certificate	Advanced Certificate		

1. General Description of Program (purpose, curriculum design, need for new courses):

This program prepares you for transfer to a Bachelor's degree program in Construction Management at a four-year college or university, where you will continue developing the skills needed for middle and upper management in general contracting. The program was specifically designed for transfer to Eastern Michigan University.

2. Need for Program (new jobs, industry changes, etc...):

Graduates of the Construction Management Transfer program can expect to compete for positions in middle and upper management positions in the construction industry.

3. Enrollment Projections:

40-50 students per year

4. Instructional Resources and Space Needs (equipment, labs, classrooms, consumable supplies):

\$2000.00-\$5000.00 annually for consumable supplies

- 5. Faculty Resources (full-time, part-time, consultant): Current full and part-time faculty resources are sufficient for the start of the program.
- 6. Curricular Connections (Other WCC instructional units, articulations, accreditations):

Washtenaw Community College

General Education Requirements

	ENG 111 Composition I4	
	ENG 122 Composition II	
	COM 101 Fundamentals of Speaking3	
_	MTH 160 Basic Statistics	
	MTH 169 Intermediate Algebra4	
	MTH 178 General Trigonometry	
	CEM 105 Fundamentals of Chemistry4	
	or	
	CEM 111 General Chemistry I4	
	GLG 114 Physical Geology4	
	ECO 211 Principles of Economics	
	PHL 101 Introduction to Philosophy3	.35
	- · ·	36 Credits

			Eastern Michigan University (FMID.	CHEM 110.	Fundamentals of Chemisters (A)	CTAS 171.	Fundamentals of Sneech (2)	ECON 201:	Principles of Economics I (3)	ECON 202:	Principles of Economics II (3)	ENGL 171	English Commerciation (2)	INTE 105.	Committee Anniiontione for Indiana	MATH 107.	Diana Tritromoter (2)	MATH 118/110	Mathematical Analysis 5- 5-15	PHY 221:	Mechanics, Sound, and Heat (4)	PLSC 112:	American Government (3)	PSY 101:	General Psychology (3)	General Education Credits (36)	
Health and Applied Technologies Division (HAT) Construction Management Programs Comnarison	Institution: Course Number:	Description (Credit Hours)	Ferris State University (FSU):	COMM 121:	Fundamentals of Public Speaking (3)	ECON 221:	Principles of Economics (3)	ENGL 150:	English 1 (3)	ENGL 250:	English 2 (3)	GEOL 160:	Physical Geology (4)	MATH 116:	Intermediate Algebra and	Numerical Trigonometry (4)	MATH 126:	Algebra and Analytic Trigonometry (4)	PHYS 211:	Introductory Physics 1 (4)	General Education Credits (28)						
			WCC-AAS Degree	1. Writing:	ENG 111 Composition I (4)	ENG 122 Composition II (3)		2. Speech:	COM 101- Fundamentals of Speaking (3)		3. Mathematics:		MTH 160 -Basic Statistics (4)	MTH 169 Intermediate Algebra (4)	MTH 178 – General Trigonometry (3)		4. Natural Science:	CEM 105 Fundamentals of Chemistry (4)	or	CEM 111 - General Chemistry I (4)	GLG 114 – Physical Geology (4)	5 Control Control Control	FCO 211 Drinciplo: 6EE	$\frac{1}{100}$ ±0.0 ±11- functions of ±00000000 (3)	6. Arts and Humanities:	PHL 101 – Introduction to Philosophy (3)	General Education Credits (36)
	Required	Courses		General	Education																						

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ercial/ rial		PEA 102 Cardiovascular training (1)		
		Support Credits (16)		
	Commercial/ Industrial		BCTM 213: Word and Steal Franing and Finishers (2)	
	Track		BCTM 223:	
BCTM 225: Field Engineering (3) Commercial/Industrial Track Credits (9)			Mechanical and Electrical Plans and Specifications (3)	
Field Engineering (3) Commercial/Industrial Track Credits (9)			BCTM 225:	
Commercia/industrial i rack Credits (9)			Field Engineering (3)	
			COMMERCIAVIDUUSTRIAL L'RACK CREDIts (9)	

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Highway/		CETM 214:	
Bridge Track		Advanced Materials Properties and Resting (3)	
		CETM 215:	
		Pavement Design and Construction (3)	
		CETM 226:	
		Highway Technology (3)	
		CETM 227:	
		Hydraulics and Hydrology (3)	
		Highway/Bridge Track Credits (12)	
Program	Minimum Credits Required		
Totals	for Associate in Science (AS) Degree (69)		

6

Construction Management (APCONM) Associate in Applied Science Degree

Program Effective Term: Fall 2002

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an Associate in Applied Science in Construction Management by completing the requirements listed below.

Health and Applied Technologies Division Technical Education Department

Advisor: Les Pierce

Continuing Education Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

Requirements

- 1.	Complete the General Education Requirements for the Associate in Applied Science (AAS) Degree	18-21				
2.	Complete the Residential Construction Certificate (CTRCT)	19				
3.	Complete the Management Supervision Advanced Certificate (CVMGTA)	12				
4.	Complete 11 credit hours as free electives to bring the program total to 60 credits*	11				
Minimum Credits Required for the Program:						

Footnotes:

*See your advisor to select appropriate electives

Washtenaw Community College **Program Change Request Form**

Program Name: Construction Management Effective Term: F 2001 A program sheet for the above named program is attached. It should reflect any approved changes that have already been submitted for this year. Please review the program sheet carefully and indicate any changes that you would like to make. Draw lines through anything that should be removed and write in any additions. Extensive narrative changes may be written on a separate sheet. Check the boxes below for each type of change being proposed. If courses are being changed as

part of this proposal, they must be ap	proved separately, using a Course	-Syllabus Approval Form (CSAF).								
1. Requested Changes:										
Remove Course(s)		Advisors								
Add Course(s)		Articulation Agreements								
Increase/Decrease Credits		Program Admission Requirements	Procedures							
Course Sequence		Continuing Eligibility Requirements	Flocedules							
))	Footnotes	ls							
Name (new name										
)									
Show all changes on the attached program sheet if possible.										
Rationale for Proposed Change	A REDUCTION IN CREDITS	FOR CON 104, AND AN INCREASE IN	CREDITS FOR							
204 AND 205 DUE TO CHANGES IN CONTENT AND CONTACT HOURS.										
- Aut CHAIGE										
SEE CTRCT										
3. Financial/Staffing/Equipment/Space Implications: ACCESS TO THE COMPUTERS IN OE 157 AND A PERIODIC UPGRADE EXPENSE FOR SOFTWARE OF APPROXIMATELY \$5000.										
4. Has the department consulted w Comments:	vith all departments that may be	impacted? Yes 🛛 No 🗌	NA 🗍							
Signatures: Reviewer	Print Name	Signature	Date							
INCVICACI		la								
Program Change Initiator:	L Pierce	Than	01-19-07							
······································		AP	101-19-01							
Department Chair:	L Pierce	run								
Division Dean:		KROuting /	1/23/01							
VP, Instruction/Student Services:		Junilla								
Access Program File 3 30 01 Log 3 30 01 Copied and Returned Copies: Initiator, Department Chair, Dean, Curriculum File New Listing to: Counseling; Admissions Curriculum and Articulation Services:										

Curriculum Development\Forms\Programs\Program Change Form 1/9/01

nge Form v21.doc e: Progi

Program Code:

APCONM

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Construction Management (APCONM) Associate in Applied Science Degree

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Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an AAS in Construction Management, by completing the requirements listed below. **Technical Education Department**

Advisors: Les Pierce 9 **Requirement** Credit Hours ok Complete the Residential Construction Certificate (CTRTC) Con 204 45 Con 205 45 Con 174-199 3 Complete the Management Supervision Advanced Certificate (CVMGTA)..... 12 Electives* Complete 10 credit hours as free electives, 10 / / Complete the General Education Requirements for the Associate in Applied Science (AAS) 18-21 *See your advisor to select appropriate electives 60-63

Construction Management (APCONM) Associate in Applied Science Degree

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an AAS in Construction Management by completing the requirements listed below.

Technology Division Technology Education Department

Advisors: Les Pierce

Requirements

1.	Complete the residential Construction Certificate (CTRCT)	19
2.	Complete the Management Supervision Advanced Certificate (CVMGTA)	12
3.	Complete the General Education Requirements for the Associate in Applied Science (AAS) Degree	18-21
4.	Complete 11 credit hours as free electives to bring the program total to 60 credits.	11
Minimum (Footnotes:	Credits Required for the Program	60

See your advisor to select appropriate electives

from P. Crider



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Construction Management (APCONM) Associate in Applied Science Degree

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an AAS in Construction Management by completing the requirements listed below.

Technology Division Technology Education Department

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Advisors: Les Pierce

Requirements

1.	Complete the residential Construction Certificate (CTRCT)	19
2 .	Complete the Management Supervision Advanced Certificate (CVMGTA)	12
3.	Complete the General Education Requirements for the Associate in Applied Science (AAS) Degree	18-21
4.	Complete 11 credit hours as free electives to bring the program total to 60 credits.	11
um	Credits Required for the Program:	60

Minimu Footnotes:

'See your advisor to select appropriate electives

Construction Supervision (APCNSP) Associate in Applied Science Degree

This program gives indentured apprentices and journeypersons of the United Association of Plumbers and Pipefitters the opportunity to apply their work in a trade specialty toward an associate's degree in Construction Supervision. In addition to four courses in Construction Supervision, students will complete general education courses and receive non-traditional credit for their work experience in an area of specialization such as plumbing, pipefitting, HVAC, or sprinklerfitting.

Technology Division Technology Education Department

Advisors: Roger Bertoia, Patricia Crider

Program Admission Requirements:

Open only to United Association of Plumbers Apprentices

General Education Requirements (18 Credits)

Elective *	Complete one course from each of the six General Education Areas for the AAS degree	18-20
Major/Ar	ea Requirements (4 <u>2 45 </u> Credits)	
	Apply for Non-Traditional credit for work experience in a specialization in plumbing,	30
	pipefitting, HVAC, or sprinklerfitting	
UAS 111	Introduction to Construction Supervision I	3
UAS 122	Construction Supervision II	3
UAS 211	Construction Supervision III	3
UAS 222	Project Management in the Construction Industry	3
UAS 226	Legal Aspects of the Construction Industry	3
Minimum	60 <u>63</u>	

Footnotes:

*Credit for general education courses may be transferred from accredited colleges or universities in the United States

UAS 226 Legal Aspects of the Construction Industry 3 credits

Prereqs: UAS 111

Coreqs: None

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45 contact hours

This course will provide an in-depth study of the legal aspects of the construction industry. Students will explore the law of the contract at large, obligations of the parties, remedies under the contract, administration of the contract, warranties, bonds, payments, and > subcontracting. Operational liabilities will also be covered and includes topics such as; liabilities for defective structures, limitations of actions, claims processing and dispute resolution.

United Association Training

UAT 111: Apprentice Training 3 Credits

Prerequsites: Admission to the Industrial Training program Corequisites: None 45 lecture, 0 lab, 0 clinical, 0 other, 45 total contact hours Fullfills Core Elements: None

This course will focus on the principles of learning, elements of trade teaching and the methods of teaching an applied technical skill. Students must be admitted to the Industrial Training program before registering for this course.

UAT 121: Apprentice Training II 3 Credits

Prerequsites: Admission to the Industrial Training program Corequisites: None 45 lecture, 0 lab, 0 clinical, 0 other, 45 total contact hours Fullfills Core Elements: None

This course will focus on developing instructional objectives, planning and presenting related information lessons and the methods of teaching a second applied technical skill. Students must be admitted to the Industrial Training program before registering for this course.

UAT 131: Apprentice Training III 3 Credits

Prerequsites: Admission to the Industrial Training program Corequisites: None 45 lecture, 0 lab, 0 clinical, 0 other, 45 total contact hours Fullfills Core Elements: None

This course will focus on the development of written tests, an elective professional skill, and a third teaching demonstration in a technical skill area. Students must be admitted to the Industrial Training program before registering for this course.

UAT 141: Apprentice Training IV 3 Credits

Prerequsites: Admission to the Industrial Training program Corequisites: None 45 lecture, 0 lab, 0 clinical, 0 other, 45 total contact hours Fullfills Core Elements: None

This course will focus on discussion and interaction techniques, an elective professional skill and the teaching methods in a fourth technical skill area. Students must be admitted to the Industrial Training program before registering for this course.

UAT

Washtenaw Community College Program Change Request Form

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Program C	ode: CON P	rogram Title: Co	nstruction Man	agement		Efi	fective Bulletin Y	(ear: 98-99	
1. Course	Related Program Chan	ges:	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		
			Restricted		Credit	Sem			
Course	Course 1	fitle	Group (if ap	oplicable)		Sciii		ange(s)	
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	edit Hours for Program ore Proposed Changes:	1:		<u>.</u>	After	Propo	osed Changes:		
	Irse Related Program (description, advisors(add			mission crit	eria, titlo	e, etc.)			
4. Rationale for Proposed Changes:									
-	· · · · · · · · · · · · · · · ·								
5. Financial/Staffing/Equipment/Space Implications:									
6. Has the	department consulted w	vith all affected in:	structional dep	artments?	Yes_		No N	A	
7. Signatur	·es:		······································						
	Reviewer	Print N	ame		Sig	nature		Date	
Program Ch	ange Initiator:	-la traicia	Tract .	fat	ricio	<u>. St</u>	Egal	6-8-99	6
Department	Chair:			An	1 0			Acata	
Division De	an:	- 		KK	Su	Ke	2//	6/8/91	/
VP, Instruct	ion/Student Services: t changes are proposed, plea	an attach a comu cf th	a most recent	Jul -	Good in a	Collar	Bullatin with cha	Le (11) 7	ż S
If courses ar	t changes are proposed, plea e being changed as part of t Data File_(his proposal, course o	changes must be a	pproved usin	g the Co	urse/Sy	$\frac{1}{\sqrt{28}}$	iges matree of f	
	Data File_ hum Services: C/Documents/PROGRAM ent Code: CONPCAF.doc	SProgramchange.doc Copies: Department Chair, I	7	Educational Service	_	LataiO E .	<u></u>		

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CATALOGUE REVISIONS/CORRECTIONS (CORRECTIONS UNDERLINED)

CONSTRUCTION MANAGEMENT

Associate in Applied Science Degree Program: Code CON

Advisors: L. Pierce, M. Pogliano, P. Stegall, J. Teevens

This program prepares students for supervisory and/or mid-management positions in the broad construction industry. Construction managers are responsible for a wide range of duties including project management and supervision, estimating and bid preparation, office supervision, scheduling, jobsite supervision, and material procurement. This position interfaces with owners, contractors, subcontractors, vendors and inspectors. This program is designed as a two-year terminal degree program. Those students seeking to transfer to a baccalaureate program should confer with a program advisor to select courses that will meet transfer requirements.

Journeyman* Industrial

Associate in Technical Studies Degree Program: Code JMI

This Associate Degree can be awarded to skilled tradespersons upon earning 60 hours or more including the courses listed below. All credits earned in Trade Related Instruction may be applied to <u>the Journeyman</u> Industrial Degree. Credit earned at other institutions offering trade related instruction programs Are evaluated and may be applicable.

CIS 100 INTRO TO COMPUTERS	3
ENG 111 COMPOSITION I	4
MTH 151, 160, 169, OR 179	4
PLS 150 State and Local Government	3
SCI 100 INTRO TO NATURAL SCIENCE	1
ELECTIVE** RESTRICTED HUMANITIES ELECTIVE	1-3
ELECTIVES*** TRADE RELATED INSTRUCTION ELEC	. 44

TOTAL CREDIT HOURS FOR PROGRAM: 60-62 *The term journeyman is a term universally accepted to indicate a gender-neutral level of competence. ** Choose from list of Humanities courses that meet elements 13 and 14 on page 64. *** See program advisor before choosing.

Refrigeration and Air Conditioning

Associates in Technical Studies Degree Program: Code RAC

... The program is guided by an advisory committee consisting of journeymen* and contractors and is offered...

* The term journeyman is a term universally accepted to indicate a gender-neutral level of competence

TECHNICAL EDUCATION/CONSTRUCTION INSTITUTE

WCC representatives are available to assist int the development Of apprenticeship and other employee training programs. Trade Related Instruction can be provide for most apprenticeable Classifications with a College representative working directly With the employer and employee to meet the requirements. Assistance is also provided, when requested, to coordinate Activities with registering agencies such as the <u>US Department</u> <u>Of Labor-Bureau of Apprenticeship and Training(BAT)</u>. The Trade Related Instruction program is approved by both the Bureau Of Apprenticeship and Training and the Michigan State Department Of Education.

Current apprenticeship programs include:

Building Maintenance

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... Courses are also available for:

Management Personnel Supervisors Journeymen* Tradespersons (without Certificates) Trainees and Journeyman* Upgraders Pre-Apprentices Other employees seeking advancement

PROGRAMS OF STUDY

ASSOCIATE IN TECHNICAL STUDIES

Architectural Drafting

Journeyman* Industrial

* The term journeyman is a term universally accepted

to indicate a gender-neutral level of competence

Personnel

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Faculty and Professional Staff