

MOBERLY AREA COMMUNITY COLLEGE
Associate Applied Science – Engineering Design & Development
(Architectural & Mechanical Design Option)

Name: _____ ID#: _____ Date: _____

MACC offers an Associate of Applied Science degree in Engineering Design & Development – Architectural & Mechanical Design. This program prepares graduates to enter employment in a variety of settings from residential to industrial to civil specialty areas as well as general drafting positions. MACC also offers a 32 credit hour certificate option and a Certificate of Specialization in this field. Working with state-of-the-art equipment and software, students gain valuable knowledge and experience in areas such as: engineering and technical drawing, beginning, intermediate and advanced Computer Aided Design (CAD), as well as civil and architectural design. Learning the skills implemented in this program, students gain the competitive advantage of having hands-on experience and a strong portfolio of work when entering the workforce. This academic map is a suggested semester-by-semester schedule of courses based upon the AAS degree requirements as outlined in the academic catalog.

Taken	Course	Semester	Hours	Milestone*
First Semester (Fall)				
	AMD101	Engineering Design	3	
	AMD112	Computer-Aided Design I	3	
		<u>Humanities</u>	3	
	IND100	Introduction to Manufacturing: CPT3	3	
	IND120 or BUS150 or LAL101	^Technical Report Writing or ^Business Communication ^Composition I	3	
	SKL101	College Orientation	1	SKL101
			16	
Second Semester (Spring)				
	AMD102	^Technical Drawing	3	
	AMD211	^Computer-Aided Design II	3	
	AMD225	^Architectural Design I	3	
	MTH130 or MTH140	^Technical Mathematics or ^College Algebra	3	MTH130 or MTH140
	SPK101	Public Speaking	3	
			15	
Third Semester (Fall)				
	AMD223	^Civil Engineering Design	3	
	AMD226	^Architectural Design II	3	
	AMD228	^Structural Design	3	
	MSP101	Machine Tool I	3	
	MTH135 or MTH145 or MTH150	^Advanced Technical Mathematics or ^College Trigonometry or ^Precalculus	2-5	MTH135 or MTH145 or MTH150
			14-17	
Fourth Semester (Spring)				
	AMD227	^Architectural Design III	3	
	AMD232	^Architectural & Mechanical Design Capstone Project	3	
	AMD250	^Design Concepts	3	
	HST105 or PSC105	American History to 1865 or Functions & Policies of American Government	3	
	PHY125	^Foundations of Physics	5	
	SKL250 or AMD295	^Employment Seminar or ^Architectural & Mechanical Design Internship	1-2	
			18-19	
Total Hours for Degree			63-67	

(See Next Page for Additional Information)

***It is strongly recommended that students successfully complete the Milestone courses as planned on the academic map to ensure completion of the degree in two years. In addition, if students do not successfully complete the Milestone course(s), they are strongly encouraged to re-enroll in the course(s) the following semester.**

^Please refer to the course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).