

**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*
<b>First Semester (Fall)</b>				
	AMD101	Engineering Design	3	
	AMD112	Computer-Aided Design I	3	
		<u>Humanities</u>	3	
	IND100	Introduction to Manufacturing: CPT3	3	
	IND120 <b>or</b> BUS150 <b>or</b> LAL101	^Technical Report Writing <b>or</b> ^Business Communication ^Composition I	3	
	SKL101	College Orientation	1	SKL101
			<b>16</b>	
<b>Second Semester (Spring)</b>				
	AMD102	^Technical Drawing	3	
	AMD211	^Computer-Aided Design II	3	
	AMD225	^Architectural Design I	3	
	MTH130 <b>or</b> MTH140	^Technical Mathematics <b>or</b> ^Precalculus Algebra	3	MTH130 <b>or</b> MTH140
	SPK101	Public Speaking	3	
			<b>15</b>	
<b>Third Semester (Fall)</b>				
	AMD223	^Civil Engineering Design	3	
	AMD226	^Architectural Design II	3	
	AMD228	^Structural Design	3	
	MSP101	Machine Tool I	3	
	MTH135 <b>or</b> MTH145 <b>or</b> MTH150	^Advanced Technical Mathematics <b>or</b> ^College Trigonometry <b>or</b> ^Precalculus	2-5	MTH135 <b>or</b> MTH145 <b>or</b> MTH150
			<b>14-17</b>	
<b>Fourth Semester (Spring)</b>				
	AMD227	^Architectural Design III	3	
	AMD232	^Architectural & Mechanical Design Capstone Project	3	
	AMD250	^Design Concepts	3	
	HST105 <b>or</b> HST106 <b>or</b> PSC105	American History to 1865 <b>or</b> American History from 1865 <b>or</b> Functions & Policies of American Government	3	
	PHY125	^Foundations of Physics	5	
	SKL250 <b>or</b> AMD295	^Employment Seminar <b>or</b> ^Architectural & Mechanical Design Internship	1-2	
			<b>18-19</b>	
Total Hours for Degree			<b>63-67</b>	

**\*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).**