

## MOMENTUM Courses

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
<b>DESIGN (ARCHITECTURE AND ENGINEERING)</b>				
.5	6402	Civil Engineering and Architecture, S1*	None	10-12
.5	6404	Civil Engineering and Architecture, S2*	Completion of Civil Engineering and Arch- S1	
.5	6406	Introduction to Engineering Design, S1*	None	9-12
.5	6408	Introduction to Engineering Design, S2*	Completion of Introduction to Engineering Design - S1 <i>Complete S1 and S2 to earn .5 Art Credit</i>	9-12
.5	6410	Principles of Engineering, S1*	None	10-12
.5	6412	Principles of Engineering, S2*	Completion of Principles of Engineering - S1	10-12
.5	6414	Architectural Drafting/Design, S1	None	10-12
.5	6416	Architectural Drafting/Design, S2	Completion of Architectural Drafting/Design - S1 <i>Complete S1 and S2 to earn .5 Art Credit</i>	10-12
.5	6418	Advanced Architectural Design	Architectural Drafting/Design	11-12
.5	6420	Advanced Engineering Design I	Introduction to Engineering Design or Principles of Engineering	11-12
.5	6421	Advanced Engineering Design II (semester 2 only)	Advanced Engineering Design I	12
<b>GRAPHIC ARTS AND DESIGN</b>				
.5	6424 T6424	Graphic Arts Graphic Arts, Tonka Online	None	9-12
.5	6426	Airbrush I	None	9-12
.5	6428	Airbrush II	.5 credit in Airbrush I	10-12
<b>TRANSPORTATION (AUTOMOTIVE &amp; SMALL ENGINES)</b>				
.5	6430	Power and Energy I	None	9-12
.5	6432	Power and Energy II	Power and Energy I	10-12
.5	M6500	Automotive Career Investigation	None	9-12
.5	M6502	Automotive Breaking Systems	Automotive Career Investigation or Power & Energy I	10-12
.5	M6504	Automotive Engine Performance	Automotive Career Investigation	10-12
.5	M6506	Automotive Steering and Suspension Systems (offered in 2023-24)	Automotive Career Investigation	10-12
.5	M6508	Automotive Electrical/Electronic Systems (offered in 2023-24)	Automotive Career Investigation	10-12
<b>MANUFACTURING</b>				
.5	6434	Metals I Manufacturing	None	9-12

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.5	6436	Metals II Manufacturing - S1	Metals I	10-12
.5	6438	Metals II Manufacturing - S2		10-12
.5	6440	Metals III Engineering - S1	Metals II	11-12
.5	6442	Metals III Engineering - S2		11-12
.5	6444	Metal Sculpture I	None; <i>Completes .5 Art Credit</i>	9-12
.5	6455	Metal Sculpture II	Metal Sculpture I	9-12
<b>CONSTRUCTION SYSTEMS</b>				
.5	6422	Home Renovation and Maintenance	None	9-12
.5	6400	Introduction to Drafting	None	9-12
.5	6446	Woodworking	None	9-12
.5	6448	Advanced Woodworking	Woodworking	10-12
1.0	M3036	The Physics of Home Renovation, S1	None <i>Fulfills the Physics science requirement</i>	11-12
1.0	M3038	The Physics of Home Renovation, S2		
2.0	M4056 M6456 M4058 M6458	Mathematics in Home Renovation, S1  Mathematics in Home Renovation. S2	None	11-12

\* Project Lead the Way course. For more information, visit [www.mnpltw.org](http://www.mnpltw.org)