

9 th Grade	10 th Grade	11 th Grade	12 th Grade
STEM 101 – Introduction to Engineering	Adobe Visual Design	STEM 101 – Drafting II Honors	STEM 101 - Principles of Engineering Honors
Recommended Elective: Drafting I	Recommended Elective: Drafting I (if not taken in 9th grade) Metals 1/2	Recommended Electives: Drafting II Architectural Honors Metals 1/2 Mitchell CCP Courses (see list below)	Recommended Electives: Honors Drafting III Engineering Honors Honors Drafting III Architectural Honors Metals 1/2 Mitchell CCP Courses (see list below)
Credentials and Certifications Possible: Autodesk Certified User AutoCAD® Autodesk Certified User Inventor® Autodesk Certified User Revit® Autodesk Certified Professional Inventor® Autodesk Certified Professional Revit® Autodesk Fusion 360® Adobe Illustrator® Adobe Photoshop® Adobe InDesign® NAFTrack Certification Career Readiness Certificate (WorkKeys) Community College Articulation Credits		 Mitchell CCP Engineering Courses Available: PHY 251 – General Physics I PHY 252 – General Physics II EGR 150 – Intro. to Engineering DFT 170 – Engineering Graphics MAT 271 – Calculus I MAT 272 – Calculus II 	

Academy of Engineering Cohorted Courses and Internship:

Academy of Engineering students will take STEM 101 or a CTE course each year. The courses in bold are required.



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STEM 101 – Introduction to Engineering Recommended Elective: Adobe Visual Design	Drafting 1 Recommended Elective: Adobe Visual Design (if not taken in 9th grade) Metals 1/2	STEM 101 – Drafting II Honors Recommended Electives: Drafting II Engineering Honors Drafting II Architectural Honors Metals 1/2 Mitchell CCP Courses (see list below)	STEM 101 - Principles of Engineering Honors Recommended Electives: Honors Drafting III Engineering Honors Honors Drafting III Architectural Honors Metals 1/2 Mitchell CCP Courses (see list below)
Credentials and Certifications Possible: Autodesk Certified User AutoCAD® Autodesk Certified User Inventor® Autodesk Certified User Revit® Autodesk Certified Professional Inventor® Autodesk Certified Professional Revit® Autodesk Fusion 360® Adobe Illustrator® Adobe Photoshop® Adobe InDesign® NAFTrack Certification Career Readiness Certificate (WorkKeys) Community College Articulation Credits		 Mitchell CCP Engineering Courses Available: PHY 251 – General Physics I PHY 252 – General Physics II EGR 150 – Intro. to Engineering DFT 170 – Engineering Graphics MAT 271 – Calculus I MAT 272 – Calculus II 	

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STEM 101 – Introduction to Engineering Recommended Elective:	Advanced Manufacturing I Honors Recommended Elective:	Advanced Manufacturing II Honors Recommended Electives:	STEM 101 – Drafting II Eng Honors Recommended Electives:
Drafting I	Drafting I (if not taken in 9th grade) Metals 1/2	Drafting II Architectural Honors Metals 1/2	STEM 101 Principles of Engineering Honors Honors Drafting III –
		Mitchell CCP Courses (see list below)	Engineering Honors Metals 1/2
			Honors Drafting III - Architectural Honors
			Mitchell CCP Courses (see list below)
Credentials and Certifications Possible:		Mitchell CCP Engineering Courses Available:	
 Autodesk Certified User AutoCAD® Autodesk Certified User Inventor® Autodesk Certified User Revit® Autodesk Certified Professional Inventor® Autodesk Certified Professional Revit® Adobe Illustrator® Adobe Photoshop® Adobe InDesign® NAFTrack Certification Career Readiness Certificate (WorkKeys) Community College Articulation Credits 		 PHY 251 – General Physics I PHY 252 – General Physics II EGR 150 – Intro. to Engineering DFT 170 – Engineering Graphics MAT 271 – Calculus I MAT 272 – Calculus II 	

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STEM 101 – Introduction to Engineering Recommended Elective: Drafting I	Advanced Manufacturing I Honors Recommended Elective: Drafting I (if not taken in 9th grade) Metals 1/2	Advanced Manufacturing II Honors Recommended Electives: Drafting II Engineering Honors Drafting II Architectural Honors Metals 1/2 Mitchell CCP Courses (see list below)	STEM 101 - Principles of Engineering - Honors Recommended Electives: Honors Drafting III – Engineering Honors Honors Drafting III - Architectural Honors Metals 1/2 Mitchell CCP Courses (see list below)
Credentials and Certifications Possible: Autodesk Certified User AutoCAD® Autodesk Certified User Inventor® Autodesk Certified User Revit® Autodesk Certified Professional Inventor® Autodesk Certified Professional Revit® Adobe Illustrator® Adobe Photoshop® Adobe InDesign® NAFTrack Certification Career Readiness Certificate (WorkKeys) Community College Articulation Credits		 Mitchell CCP Engineering Courses Available: PHY 251 – General Physics I PHY 252 – General Physics II EGR 150 – Intro. to Engineering DFT 170 – Engineering Graphics MAT 271 – Calculus I MAT 272 – Calculus II 	

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