



Architectural Design Technology

Student Learning Outcomes

- 1 Communication – The student will demonstrate the ability to communicate effectively using written and/or oral communication.
- 2 Information Literacy – The student will recognize when information is needed and have the ability to locate, evaluate, and use effectively the needed information.
- 3 Problem Solving – the student will demonstrate the ability to analyze information and solve problems.
- 4 Workplace Skills – Demonstrates a mastery of workplace skills/soft skills, exhibits initiative, adapts to varied situations.

Program Outcomes

- 1 Identify different materials and processes by inspection
- 2 Apply geometry to geometric constructions
- 3 Apply design technologies to architectural design principles to include Auto- Cad and Chief Architect/Architectural Desktop
- 4 Apply architectural concepts for residential and commercial applications
- 5 Demonstrate techniques of the design process
- 6 Independently interpret ideas into design documentation
- 7 Demonstrate general education concepts including effective reading, writing, speaking and listening skills
- 8 Demonstrate effective work ethics skills in a diverse global society

Fall

Course #	Course Title	Credits	Function
MCD 101	Introduction to CAD I	3	Technical Studies
MCD 102	Introduction to CAD II	2	Technical Studies
MCD 104	Blueprint Reading for Drafting	2	Technical Studies
MCD 106	Precision Measuring	2	Technical Studies
MCD 121	Descriptive Geometry	3	Technical Studies

Spring

Course #	Course Title	Credits	Function
MCD 112	Industrial Materials & Processes	2	Technical Studies
MCD 115	Machine Drafting & Design	3	Technical Studies
MCD 124	Advanced AutoCAD	4	Technical Studies
MCD	Technical Elective**	3	Elective
PDV 115	Work Ethics	2	General Studies
MTH	Math Elective*	3	General Studies

Fall

Course #	Course Title	Credits	Function
MCD 114	Architectural Drafting & Design	3	Technical Studies
MCD 164	Residential Design Using Autodesk Revit	4	Technical Studies
MCD 224	Commercial Design Using Autodesk Revit	3	Technical Studies
ENG 101	Composition I*	3	General Studies
	Social Science Elective*	3	General Studies

Spring

Course #	Course Title	Credits	Function
MCD 134	Advanced Chief Architect/Architectural Desktop	3	Technical Studies
MCD 132	Basic Chief Architect/Architectural Desktop	3	Technical Studies
MCD 205	Residential Drafting	3	Technical Studies
	Humanities Elective*	3	General Studies
	Communication Elective*	3	General Studies

****Technical Elective**

Course #	Course Title	Credits	Function
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CAT 101	CATIA Parts Design & Sketcher		Elective
MCD 130	Basic Solidworks		Elective
MCD 133	Advanced Solidworks		Elective
MCD 137	Introduction to 3D Printing		Elective
MCD 140	Drafting Technology Internship		Elective
MCD 156	Intermediate Measuring Instruments		Elective
MCD 210	Advanced Measuring		Elective

* **Kansas Systemwide General Education**

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Spring

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PDV 115	Work Ethics	2	General Studies
	Communication Elective*	3	Technical Studies

Spring

Course #	Course Title	Credits	Function
MCD 132	Basic Chief Architect/Architectural Desktop	3	Technical Studies
MCD 134	Advanced Chief Architect/Architectural Desktop	3	Technical Studies
MTH	Math Elective*	3	General Studies

* Kansas Systemwide General Education