

**Program of Study Sequence**

Community College  Kishwaukee College High School  Rochelle Township High School

**CAD/CADD Drafting and/or Design Tech**

Program of Study:  #412 Computer-Aided Architectural Design (A.A.S) CIP Code  15.1302

Cluster  **Architecture Construction**

Pathway  **Design Pre-Construction**

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities
SECONDARY	9	Tech Lab I - Production	English I	Algebra I	Biology	World Geography	Foreign Language Business Ed	
	10	Tech Lab II - Production	Rhet & Comp., Speech	Geometry	Natural Science	World History		
	11	Engineering Drafting / CAD	2 Literature Courses	Algebra II	Chemistry	American History I & II	Foreign Language Business Ed Consumer Ed Related Electives. SkillsUSA (KEC)	
	12	Possible KEC Dual Credit Relevant High School Classes	Expos/ENG 103 (DC)	Pre-Calculus	Adv. Chemistry (DC) or Physics			
POSTSECONDARY	13 (Fall)	CAD110 Orientation to CADD (1) CAD111 Engineering Graphics (3) CAD131 Print Reading Const. Trades (3) CAD151 Fund. Of CAD – AutoCAD (3) CAD152 Intermediate CAD (3)	SPE 100 Oral Communication I (3)				SkillsUSA Membership Suggested	CAD270 Drafting and Design Internship (3)
	13 (Spring)	CAD154 Adv. Computer-Aided Draft Archi (4) CAD112 Tech. Illustration (3) CAD221 Descriptive Geometry (3)	ENG103 Composition (3) OR ENG109 Intro. Tech. Report Writing (3)	MAT150 College Algebra (3) OR Higher			SkillsUSA Membership Suggested	
	14 (Fall)	CAD210 Principles of Cons. Design (3) CAD251 3-D CAD Rendering Modeling and Animation (3) CIS OR CAD Electives (3)			PHY150 Intro Physics (3) PHY151 Intro. Physics Lab (1)	Social Science OR Humanities Elective (3)	SkillsUSA Membership Suggested	
	14 (Spring)	CAD254 Comp-Aided Arch Design (3) CAD Electives (9)		MAT155 Trigonometry (3)			SkillsUSA Membership Suggested	
	15 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Career Opportunities: Architectural Designer Architectural Drafter Building Inspector Civil Surveyor Materials Estimator Print Reader	Degrees and Certificates Available: #414Arch CAD Drafting Certificate is included herein #415 Mech CAD Drafting Certificate can be included if the right combination of CAD electives are taken
	15 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		
	16 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		
	16 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		

[CAD Program Proficiency Credit is Available with High School Transcript and Drawing Portfolio Evaluation](#)

*Program of Study Sequence*

Community College  Kishwaukee College  High School  Rochelle Township High School

CAD/CADD Drafting and/or Design Tech

Program of Study:  #413 Computer-Aided Mechanical Design (A.A.S)  CIP Code  15.1302

Cluster  Architecture & Construction

Pathway  Design Pre-Production

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities
SECONDARY	9	Tech Lab I - Production	English I	Algebra I	Biology	World Geography	Foreign Language Business Ed	
	10	Tech Lab II - Production	Rhet & Comp., Speech	Geometry	Natural Science	World History		
	11	Engineering Drafting / CAD	2 Literature Courses	Algebra II	Chemistry	American History I & II	Foreign Language Business Ed Consumer Ed Related Electives. SkillsUSA (KEC)	
	12	Possible KEC Dual Credit Relevant High School Classes	Expos/ENG 103 (DC)	Pre-Calculus	Adv. Chemistry (DC) or Physics			
POSTSECONDARY	13 (Fall)	CAD110 Orientation to CADD (1) CAD111 Engineering Graphics (3) CAD151 Fund. Of CAD – AutoCAD (3) CAD152 Intermediate CAD (3)	SPE 100 Oral Communication I (3)	MAT150 College Algebra (3) OR Higher			SkillsUSA Membership Suggested	CAD270 Drafting and Design Internship (3)
	13 (Spring)	CAD112 Tech. Illustration (3) CAD153 Adv. Computer-Aided Draft Mech (4) CAD221 Decrip. Geometry (3) CAD231 GD&T (2) CAD Electives (3)	ENG103 Composition (3) OR ENG109 Intro. Tech. Report Writing (3)				SkillsUSA Membership Suggested	
	14 (Fall)	CAD171 Fund. Of CAD – Solidworks (3) CAD210 Principles of Cons. Design (3) CAD251 3-D CAD Rendering Modeling and Animation (3) CIS OR CAD Electives (1)			PHY150 Intro Physics (3) PHY151 Intro. Physics Lab (1)		SkillsUSA Membership Suggested	
	14 (Spring)	CAD253 Comp-Aided Mech Design (3) CAD Electives (3) CIS Elective (2-3)		MT152 Mach Shop Math II OR MAT155 Trigonometry (3)		Social Science OR Humanities Elective (3)	SkillsUSA Membership Suggested	
	15 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Career Opportunities:  Mechanical Designer Mechanical Drafter Quality Inspector 3-D Modeler Materials Estimator Print Reader	Degrees and Certificates Available:  #415 Mech CAD Drafting Certificate is included herein #414 Archi CAD Drafting Certificate can be included if the right combination of CAD electives are taken
	15 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		
	16 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		
	16 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		

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*Program of Study Sequence*

Community College  Kishwaukee College  High School  Rochelle Township High School

CAD/CADD Drafting and/or Design Tech

Program of Study:  #414 Computer-Aided Architectural Drafting Certificate  CIP Code  15.1302

Cluster  Architecture Construction

Pathway  Design Pre-Construction

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities	
SECONDARY	9	Tech Lab I - Production	English I	Algebra I	Biology	World Geography	Foreign Language Business Ed		
	10	Tech Lab II - Production	Rhet & Comp., Speech	Geometry	Natural Science	World History			
	11	Engineering Drafting / CAD	2 Literature Courses	Algebra II	Chemistry	American History I & II	Foreign Language Business Ed Consumer Ed Related Electives. SkillsUSA (KEC)		
	12	Possible KEC Dual Credit Relevant High School Classes	Expos/ENG 103 (DC)	Pre-Calculus	Adv. Chemistry (DC) or Physics				
POSTSECONDARY	13 (Fall)	CAD110 Orientation to CADD (1) CAD111 Engineering Graphics (3) CAD131 Print Reading Const. Trades (3) CAD151 Fund. Of CAD – AutoCAD (3) CAD152 Intermediate CAD (3)					SkillsUSA Membership Suggested		
	13 (Spring)	CAD154 Adv. Computer-Aided Draft Archi (4) CAD112 Tech. Illustration (3) CAD221 Decrip. Geometry (3)					SkillsUSA Membership Suggested		
	14 (Fall)						SkillsUSA Membership Suggested		
	14 (Spring)						SkillsUSA Membership Suggested		
	15 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Career Opportunities: Architectural Drafter Civil Surveyor Field Tech. Print Reader		Degrees and Certificates Available:
	15 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree			
	16 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree			
	16 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree			

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*Program of Study Sequence*

Community College  Kishwaukee College High School  Rochelle Township High School

CAD/CADD Drafting and/or Design Tech

Program of Study:  #415 Computer-Aided Mechanical Drafting Certificate CIP Code  15.1306

Cluster  Architectural & Construction

Pathway  Design Pre-Production

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities	
SECONDARY	9	Tech Lab I - Production	English I	Algebra I	Biology	World Geography	Foreign Language Business Ed		
	10	Tech Lab II - Production	Rhet & Comp., Speech	Geometry	Natural Science	World History			
	11	Engineering Drafting / CAD	2 Literature Courses	Algebra II	Chemistry	American History I & II	Foreign Language Business Ed Consumer Ed Related Electives. SkillsUSA (KEC)		
	12	Possible KEC Dual Credit Relevant High School Classes	Expos/ENG 103 (DC)	Pre-Calculus	Adv. Chemistry (DC) or Physics				
POSTSECONDARY	13 (Fall)	CAD110 Orientation to CADD (1) CAD111 Engineering Graphics (3) CAD151 Fund. Of CAD – AutoCAD (3) CAD152 Intermediate CAD (3) CAD171 Fund. of CAD – Solidworks (3)					SkillsUSA Membership Suggested		
	13 (Spring)	CAD153 Adv. Computer-Aided Draft Mech (4) CAD112 Tech. Illustration (3) CAD221 Decrip. Geometry (3) CAD231 GD&T (2)					SkillsUSA Membership Suggested		
	14 (Fall)						SkillsUSA Membership Suggested		
	14 (Spring)						SkillsUSA Membership Suggested		
	15 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Career Opportunities:  Mechanical Drafter Quality Inspector Print Reader		Degrees and Certificates Available:
	15 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree			
	16 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree			
	16 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree			

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