

*Program of Study Sequence*

Community College  Kishwaukee College

High School  Sycamore 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	Technical Drafting I-A	English I	Algebra I	Physical Science	World Cultures (Opt)	Foreign Language	
	10	Technical Drafting II	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)		
	11	Computer-Aided Drafting	English III	Algebra II	Courses Required for Graduation	American History	Foreign Language Skills USA (KEC)	
	12	Consumer Economics Metals IW	English IV	Trigonometry	Chemistry of Physics	Government Consumer Ed.		
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				
	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)				
	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  Sycamore 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	Technical Drafting I-A	English I	Algebra I	Physical Science	World Cultures (Opt)	Foreign Language	
	10	Technical Drafting II	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)		
	11	Computer-Aided Drafting	English III	Algebra II	Courses Required for Graduation	American History	Foreign Language Skills USA (KEC)	
	12	Consumer Economics Metals IW	English IV	Trigonometry	Chemistry of Physics	Government Consumer Ed.		
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)					
	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)		
	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  Sycamore 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	Technical Drafting I-A	English I	Algebra I	Physical Science	World Cultures (Opt)	Foreign Language	
	10	Technical Drafting II	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)		
	11	Computer-Aided Drafting	English III	Algebra II	Courses Required for Graduation	American History	Foreign Language Skills USA (KEC)	
	12	Consumer Economics Metals IW	English IV	Trigonometry	Chemistry of Physics	Government Consumer Ed.		
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	Degrees and Certificates Available:  Architectural Drafter Civil Surveyor Field Tech. Print Reader
	13 (Spring)	CAD154 Adv. Computer-Aided Draft Archi (4) CAD112 Tech. Illustration (3) CAD221 Decrip. Geometry (3)						
	14 (Fall)						SkillsUSA Membership Suggested	
	14 (Spring)							
	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	
	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 Sycamore 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	Technical Drafting I-A	English I	Algebra I	Physical Science	World Cultures (Opt)	Foreign Language		
	10	Technical Drafting II	English II & Speech	Geometry	Biology or BSAA	World Cultures (Opt)			
	11	Computer-Aided Drafting	English III	Algebra II	Courses Required for Graduation	American History	Foreign Language Skills USA (KEC)		
	12	Consumer Economics Metals IW	English IV	Trigonometry	Chemistry of Physics	Government Consumer Ed.			
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)							
	14 (Fall)						SkillsUSA Membership Suggested		
	14 (Spring)								
	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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