

Key
High School Academic
High School Career & Technical
MHCC Dual Credit Articulated Courses
1-year Certificate
AAS Degree
University

# Hillsboro High School

## Design and Drafting Industrial and Engineering Systems

*This program of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized coursework to meet each learner's educational and career goals.*

Education Levels	Grade	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required Courses Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses	
DIPLOMA	9	Freshmen English	Algebra 1	Integrated Science	World Studies	PE 1	Introduction to Engineering Design A/Drafting and Computer Graphics 1 Principles of Engineering	
	10	Sophomore English	Geometry	Biology	US History	Health/PE 2	Introduction to Engineering Design B/Drafting and Computer Graphics 2 Drafting and Computer Graphics 3 Architectural and Interior Design 1	
	11	Junior English	Algebra 2	Another Science credit	Modern US History	Applied Arts/Foreign Lang/CTE	Architectural and Interior Design 2 Drafting and Computer Graphics 4 Architectural and Interior Design 3	
	12	Senior English	Applied Arts/Foreign Lang/CTE	Applied Arts/Foreign Lang/CTE	Economics/People and Politics	Applied Arts/Foreign Lang/CTE	Architectural and Interior Design 4 Drafting and Computer Graphics 5	

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P o r t l a n d  C o m	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations	
	FIRST TERM	DRF 117 Drafting Fundamentals	DRF 126 Introduction to AutoCAD	DRF 136 Intermediate AutoCAD	DRF 100 Drafting Orientation		1-year Certificate Computer Aided Design and Drafting	
	SECOND TERM	DRF 133 Intermediate Drafting	DRF 185 Inventor Fundamentals	DRF 246 AutoCAD 3-D Modeling	DRF 270 SolidWorks Fundamentals		This program helps students develop the design and technical skills needed in the residential and commercial building design industry.	
	THIRD TERM	DRF 135 Advanced Drafting	DRF 256 Advanced AutoCAD	DRF 251 Kinematics Drafting	DRF 271 SolidWorks Advanced	DRF 285 Inventor Advanced		
P	TERM						Certificates/Degrees/Occupations	
	FIRST TERM	ARCH 110 Introduction to Architectural Drawing	ARCH 124 Intro to Building Systems	ARCH 126 Introduction to AutoCAD	ARCH 127 Introduction to Google Sketch-up	ARCH 121 Structural Systems 1	Associate of Applied Science Architectural Design and Drafting CIPS# 151303	

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Portland Community College	SECOND TERM	ARCH 101 Architectural Graphics 1	CAD Elective	ARCH 122 Structural Systems 2	ARCH 132 Residential Building Codes	ARCH 136 Intermediate AutoCAD	Graduates may pursue various design and drafting jobs with residential designers, construction firms, interior designers, engineers, architects, architectural product manufacturers, city, county, state and federal drafting departments and corporate drafting departments
	THIRD TERM	ARCH 123 Structural Systems 3	ARCH 111 Working Drawings 1	ARCH 113 Site Planning	ARCH 224 Active & Passive Building Systems	ARCH 256 Detail Drawing with AutoCAD	
	FOURTH TERM	General Education	General Education	General Education	ARCH 112 Working Drawings 2	ART 215 History of Residential Architecture	
	FIFTH TERM	ARCH 201 Residential Studio	ARCH Elective	ARCH Elective	ARCH 133 Commercial Building Codes	ARCH 102 Architectural Graphics 2	
	SIXTH TERM	ARCH 202 Commercial Studio	ARCH Elective	ARCH Elective	General Education		

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I e g e	SEVENTH TERM	ARCH 203 Residential Renovation Studio	ARCH 280 CE: Architectural Design & Drafting	General Education				
	A Sampling of MCH Electives							
UNIVERSITY								