

Construction and Development Cluster



Construction Design & Management Program

PROGRAM OF STUDY OVERVIEW:

This Construction Design & Management Program (CDM) program of study will help students develop an understanding of the built world through the design and construction process. Each course uses a project-based learning approach to advance students' understanding of the design-build-maintain process. Advanced architectural drafting and design skills are developed through lab-based instruction using *Autodesk* software tools (*AutoCAD* and *Revit*). Throughout the program, students will develop a portfolio to demonstrate knowledge of each phase of the design and construction management process.



Entrance Grades	Introduction to Construction Design and Management	Principles of Construction Design	Advanced Design and 3-D Modeling	Advanced Construction Management	Work Study (optional)
	1 Credit Double-blocked for One Quarter*	1 Credit Double-blocked for One Quarter*	1 Credit Double-blocked for One Quarter*	1 Credit Double-blocked for One Quarter* COMPLETER	
	*Students commit to completing Introduction & Principles sequentially in a semester.		*Students commit to completing Advanced Design & Advanced Construction sequentially in a semester.		
10 th Grade Entrance	Fall Sophomore		Spring Sophomore		Junior Senior
11 th Grade Entrance	Fall Junior		Spring Junior		Senior
12 th Grade Entrance	Fall Senior		Spring Senior		

IN THIS PROGRAM

Students will work in teams to fully develop designs and a construction management plan for a pre-determined site. Projects will focus on building codes and standards, coordination of the construction process, estimating, planning and scheduling; and site management.

COURSE SEQUENCE

- Introduction to Construction and Design (A)
- Principles of Construction and Design (A)
- Advanced Design and 3-D Modeling (A)
- Advanced Construction Management (A)

(A) articulates college credit

For course descriptions, please see the WCPS Course Catalog @ <https://www.worcesterk12.com/>

STUDENT ORGANIZATION



CERTIFICATIONS

Autodesk's
AutoCAD &
Revit

EARLY COLLEGE CREDIT PARTNER



As a college degree, construction management combines two of the most important industries in U.S. society: building and business. And while working as a foreman or project manager might not seem like the most glamorous job in the world, it's arguably one of the most sensible and secure. The Bureau of Labor Statistics indicates that with just a bachelor's degree and minimal on-the-job training, you could easily be making \$85,000 a year or more as the lead on a construction site.