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.

<table>
<thead>
<tr>
<th>Entrance Grades</th>
<th>Introduction to Construction and Design and Management</th>
<th>Principles of Construction Design</th>
<th>Advanced Design and 3-D Modeling</th>
<th>Advanced Construction Management</th>
<th>Work Study (optional)</th>
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</thead>
<tbody>
<tr>
<td>10th Grade Entrance</td>
<td>Fall Sophomore</td>
<td>Spring Sophomore</td>
<td>Junior</td>
<td>Senior</td>
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<tr>
<td>11th Grade Entrance</td>
<td>Fall Junior</td>
<td>Spring Junior</td>
<td>Senior</td>
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<tr>
<td>12th Grade Entrance</td>
<td>Fall Senior</td>
<td>Spring Senior</td>
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</tbody>
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*Students commit to completing Introduction & Principles sequentially in a semester.
*Students commit to completing Advanced Design & Advanced Construction sequentially in a semester.

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.

STUDENT ORGANIZATION

COURSES 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/

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.