SERVICE AREA: Applied Sciences, Technology, Engineering, and Manufacturing

CAREER CLUSTER

ARCHITECTURE AND CONSTRUCTION

Do you love working with your hands and bringing a vision to life? A career designing and building of homes, roads and other structures could be for you. According to the federal Bureau of Labor Statistics, the job outlook in architecture and construction is expected to see above-average growth through 2028, with the largest growth in the construction segment. More than half of the jobs in this cluster require a high school diploma or equivalent, plus some additional on-the-job or specialized training. There are also some occupations that require two-year, four-year or graduate degrees.

PATHWAYS IN THIS CLUSTER...

- » Construction
- » Design/Pre-Construction
- » Maintenance/Operations

WANT A SUGGESTED ROADMAP FOR A CAREER IN CONSTRUCTION? Check out the Construction Pre-Apprenticeship Pathway Plan online at: **www.dbqschools.org/vertex/pathway-plans**

...LEAD TO OCCUPATIONS AS:

- » Carpenter
- » Concrete Finisher
- » Construction Engineer
- » Construction Foreman/Manager
- » Drywall Installer
- » Electrician
- » Electronic Systems Technician
- » Equipment and Material Manager
- » General Contractor/Builder
- » Mason
- » Painter
- » Plumber
- » Project Estimator/Manager
- » Roofer
- » Sheet Metal Worker
- » Superintendent

DIVE DEEPER INTO CAREER OPTIONS!

www.dbqschools.org/career-exploration

OR

login to Kuder Navigator
(the Dubuque Community School District's career information system)

This page is meant to guide student course selection based on career interest and is not a comprehensive list of courses required for graduation from high school or for all 2-year and 4-year college-bound students.

- For comprehensive 4-year course recommendations, review pages 33-35.
- For comprehensive graduation requirements, review page 4.

CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Everyone will have a career – not everyone will go to college. Start charting your courses with CAREER TRAINING and proceed to 2-YEAR-DEGREE and 4-YEAR DEGREE based on your post-secondary plans.

CAREER TRAINING

Recommended Courses:

INT117	Woodworking
INT323	Electricity/Electronics
INT332	Metals
INT383	Advanced Woodworking
INT385	Construction I
INT387	Construction II
WBL300	Employability Skills with Job Shadowing
WBL401	Internship

Suggested Extension Courses:

INT115	Engineering Drafting and Design I
INT413	Engineering Drafting and Design II
INT433	Architectural Design

2-YEAR DEGREE

Recommended Courses:

ENG641	Composition I
ENG643	Public Speaking
INT115	Engineering Drafting and Design I
INT413	Engineering Drafting and Design II
MTH271/272	Algebra II
or MTH351	Applied Math I *and*
MTH352	Applied Math II

plus recommended CAREER TRAINING courses

Suggested Extension Courses:

ART113	Art 2D
ART114	Art 3D
INT401	Engineering I
INT402	Engineering II

plus suggested CAREER TRAINING courses

4-YEAR DEGREE +

Recommended Courses:

ENG644	Composition II
INT433	Architectural Design
MTH361	Foundations of College Math
MTH362	Math for Liberal Arts
SCI183	Physics

plus recommended CAREER TRAINING *and* 2-YEAR DEGREE courses

Suggested Extension Courses:

ART221/222	Advanced Art 3D
ART227/228	Art 3D: Portfolio
MTH331/332	Pre-Calculus with Trigonometry

plus suggested CAREER TRAINING *and* 2-YEAR DEGREE courses