

# Focusing Education on the Future!



## CAREER PATHWAY DESIGN PRE-CONSTRUCTION

Dual or Tech/Career Seal

People with careers in Design and Pre-construction create our future! They turn a concept into a set of plans. Their plans guide other construction professionals as they continue the building process.

### Major Courses

Students must take THREE pathway concentration courses and ONE additional pathway elective course.

#### Pathway Concentration Courses (3):

- Architectural Drawing and Design I
- Civil Engineering Drawing
- Engineering Concepts and Drawings\* (Required)
- Introduction to Engineering, Drawing & Design
- Landscape Design
- Solid Modeling and Design

#### Pathway Elective Courses (1):

- Advanced Landscape Design
- Apprenticeship/Internship
- Architectural Drawing and Design II\*
- Drafting Technology: Introduction
- Engineering Applications\*
- Engineering Concepts (formerly Pre-Engineering Technology)\*
- Introduction to Construction (formerly Introduction to Building)\*
- Introduction to Interior Design
- Introduction to Manufacturing/Engineering Sciences
- Occupational Safety & Fundamentals (formerly Fundamentals of Construction)
- Structural Detailing
- Technical Manufacturing Concepts and Drawings
- Other Pathway Concentration Course

### Other Recommended Courses

- Calculus
- Euclidean Geometry
- Informal Geometry
- Trigonometry
- Visual Arts

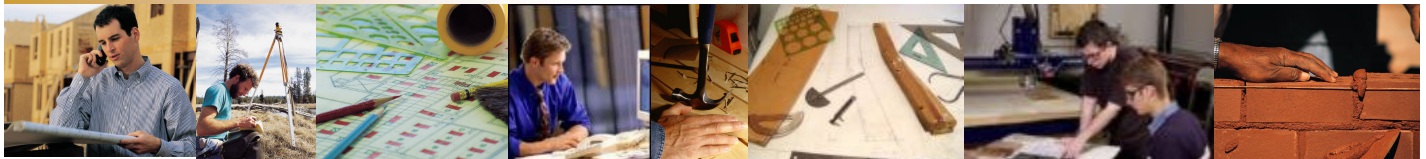
### Post-Secondary Degrees, Diplomas, & Certificates

#### Technical Colleges

- CAD Operator
- Drafting Aide
- Drafting Technology
- Interior Design Assistant
- Interiors
- Landscape Design
- Technology with Advanced Drafting

#### Colleges/Universities

- Agricultural Engineering
- Architecture
- Civil Engineering
- Building Construction
- Drafting
- Engineering
- Landscape Architecture



Civil Engineer  
Industrial Engineer  
Mechanical Drafter  
Electrical Engineer  
Cost Estimator  
Interior Designer

Architectural and Civil Drafter  
Environmental Designer  
Electronic Engineering Technician  
Environmental Engineer  
Fire Prevention/Protection Engineer  
Regional & Urban Planner Designer

Drafter  
Modeler  
Programmer  
Preservationist  
Surveyor  
Architect

Landscape Designer  
Materials Engineer  
Mechanical Engineer  
Landscape Architect  
Computer Aided Designer  
Building Code Official

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### EMPLOYMENT OUTLOOK

Employment is expected to increase for all occupations through the year 2010. Overall job opportunities in engineering are expected to be good but will vary by specialty. Starting salaries are significantly higher for engineers than those of college graduates in other fields. Earnings for drafters vary by specialty and level of responsibility.