

Southeast Tech
Architectural Engineering and Construction Management Program Overview
EXECUTIVE SUMMARY

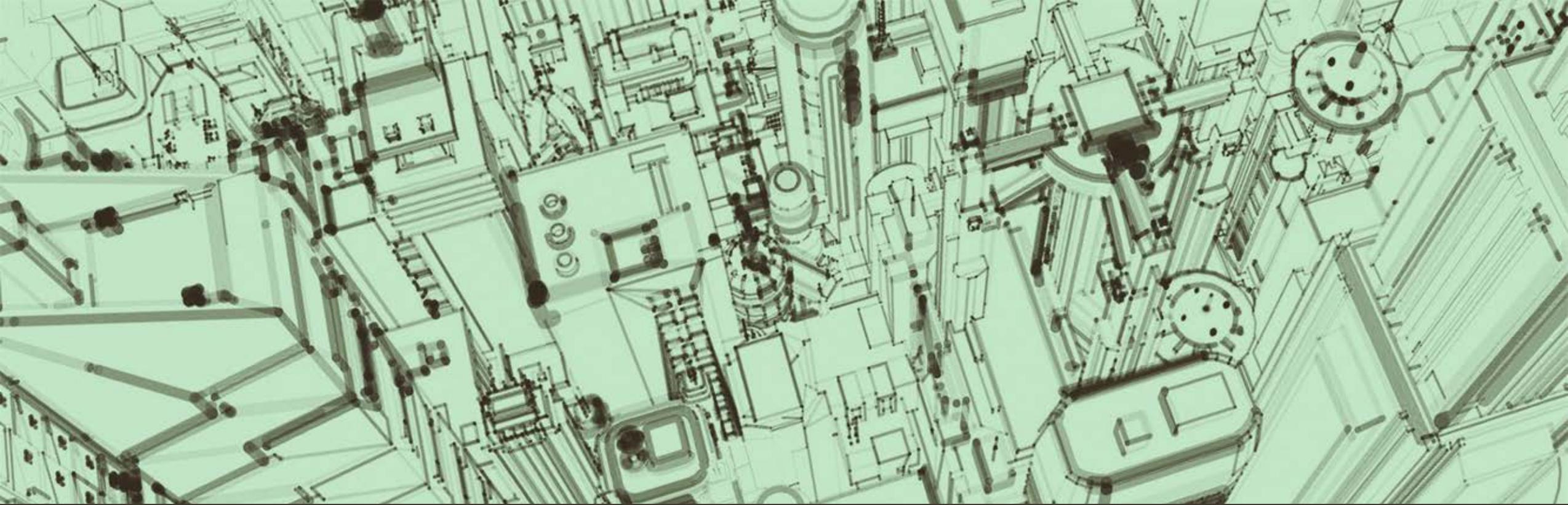
Purpose:

To provide the School Board information about the Architectural Engineering and Construction Management programs offered by Southeast Tech.

The presentation will provide the School Board information about the Architectural Engineering and Construction Management programs at Southeast Tech and introduce the principals involved. The presentation will include program descriptions, program outcomes and career opportunities.

Administrative Recommendation to School Board:

To acknowledge the Academic Program Overview Report.

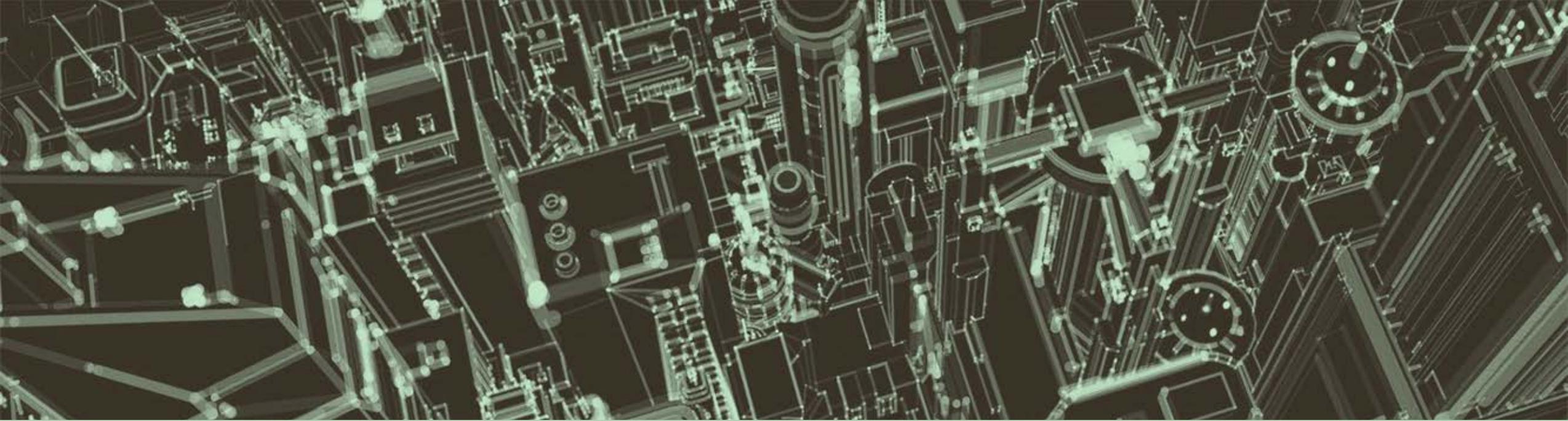


Architectural Engineering Tech. & Construction Management Tech.

Southeast Technical Institute

Sioux Falls, South Dakota





Instructors: Jeff Schlepp, AIA Kristen Gundvaldson, P.E.

Registered Architect (NDSU) and Professional Engineer (SDSU)



Program classes required for graduation:

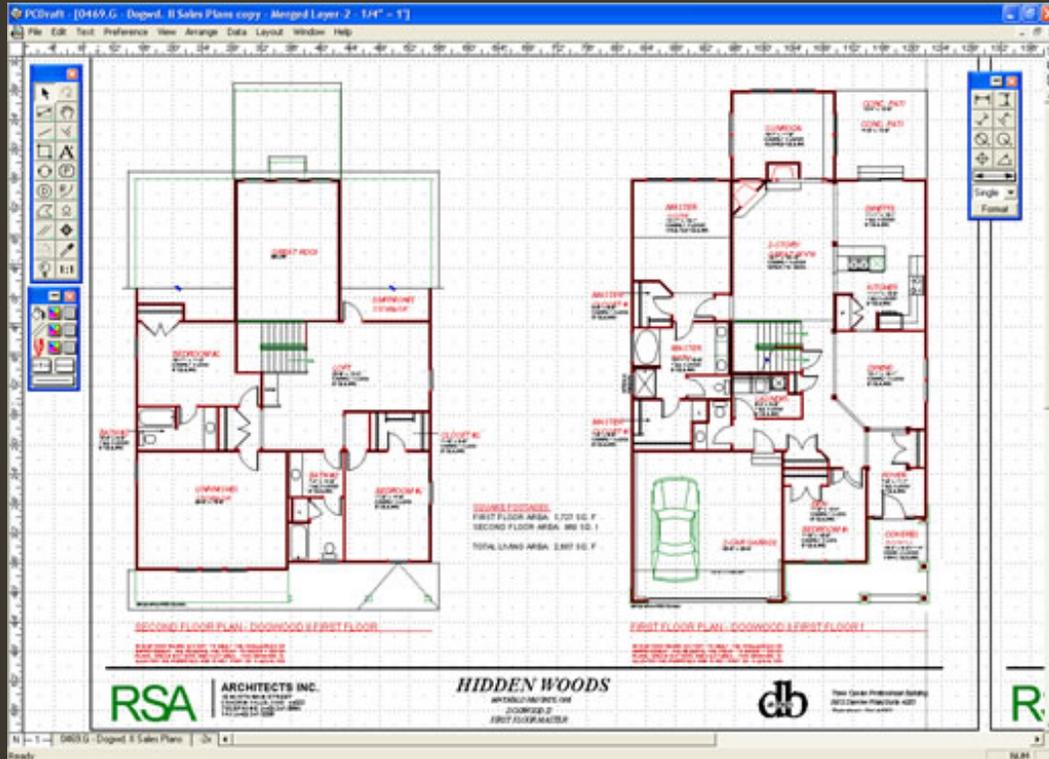
- Engineering Drawing (Arch)
- Materials and Methods of Construction (Emphasis on Residential Construction) (Arch and Const.)
- Architectural Drawing I (Design and draw a residential home) (Arch)
- Commercial Construction Techniques (Emphasis on Commercial Construction) (Arch & Const. Manage)

Program classes required for graduation:

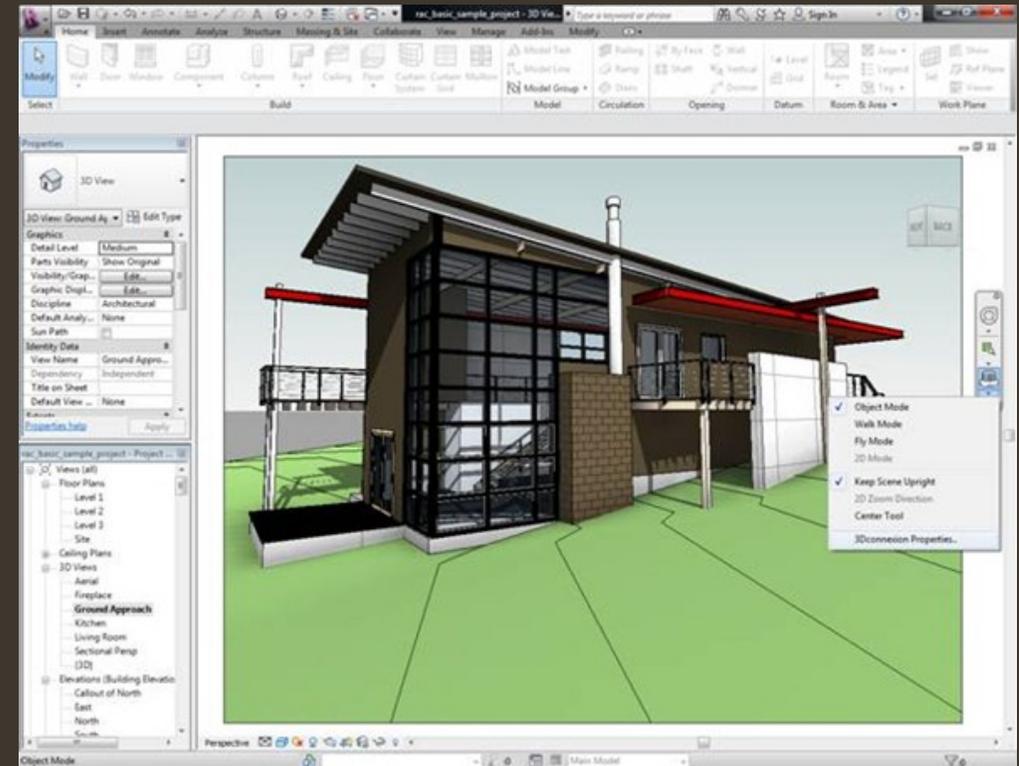
- Architectural Drawing II (Draw various commercial structures: Live Projects)
- Mechanical Electrical Systems (Focus on the Electrical and Lighting Layout, Heating Ventilation and Air Conditioning, Plumbing Systems)
- Green Building Techniques: Become aware of energy efficient design features that lead to a LEED Certification (Leadership in Energy and Environmental Design)
- Estimating (Focus on the cost of materials and labor)

Architectural Drawing Software

AutoCAD by AutoDESK

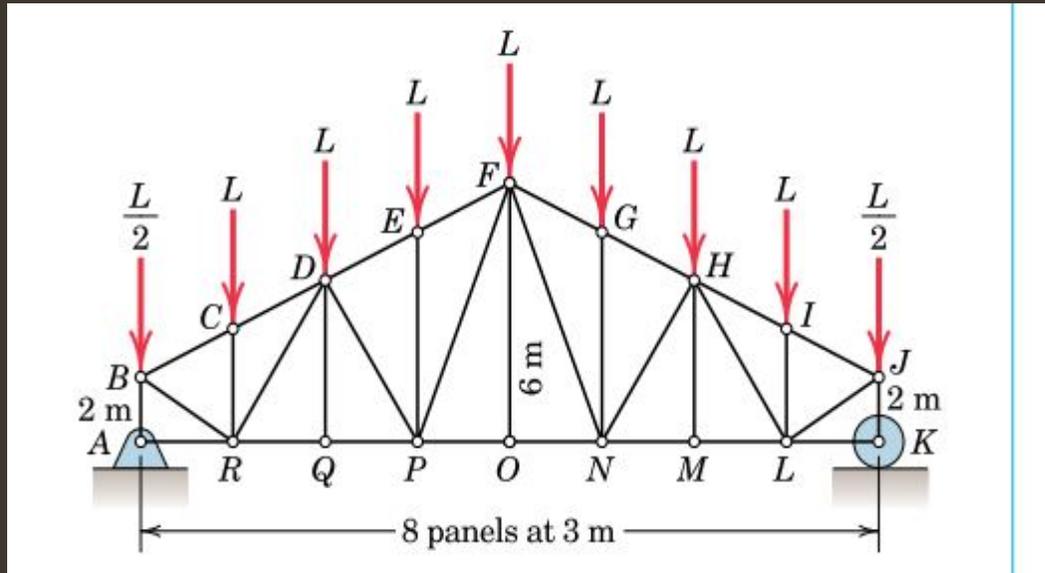


Revit Architectural Software



Engineering Math Requirements

Statics (Arch and Construction)



Strengths of Materials (Arch.)



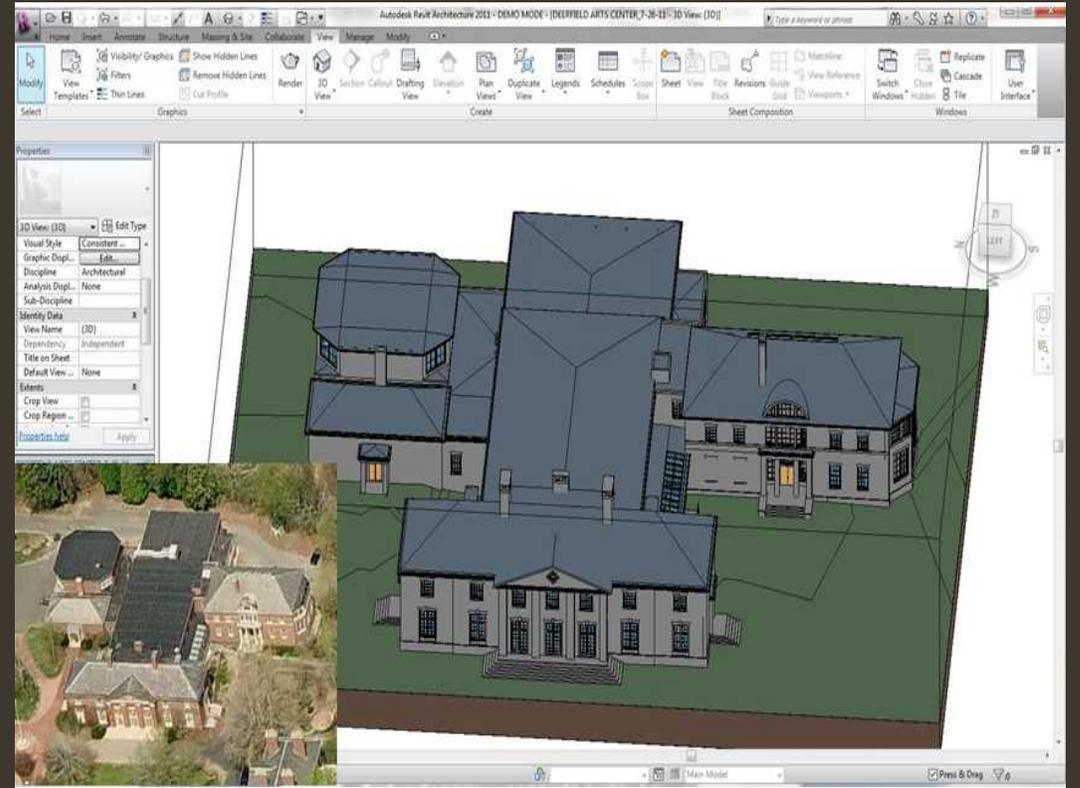
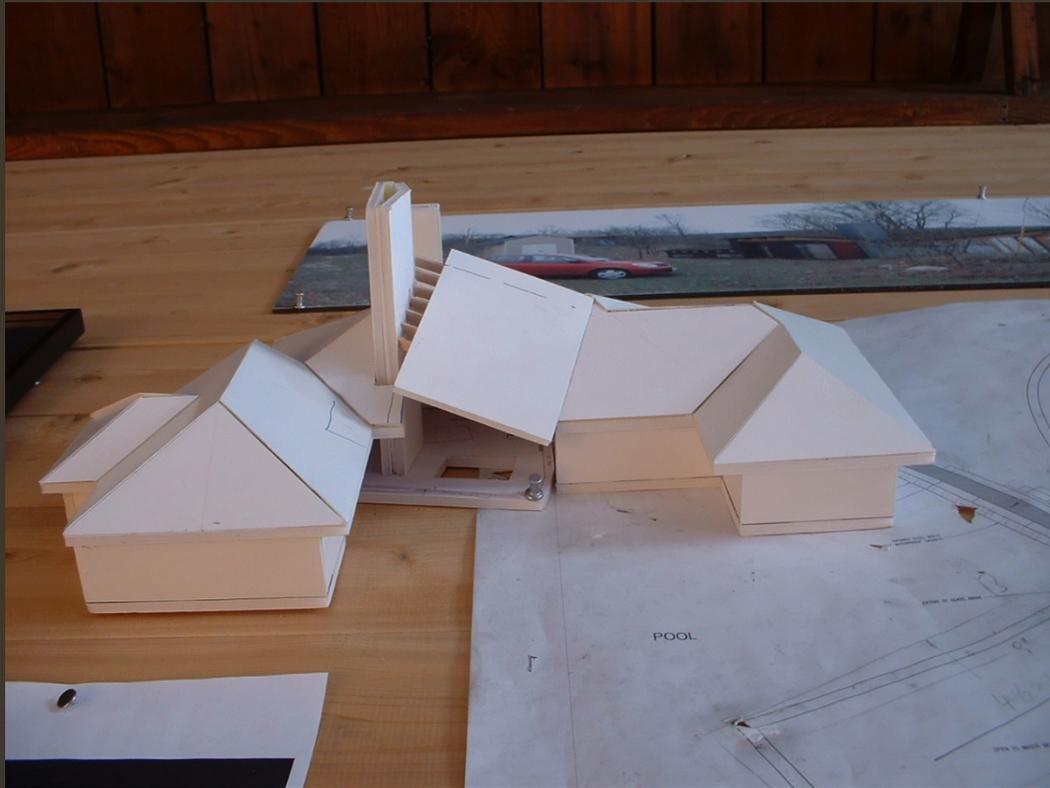
Required General Education Classes:

- English Composition
- Technical Writing or Speech
- Psychology
- Social Problems
- Algebra-Trigonometry
- Computer Essentials

Opportunities in the REAL WORLD

- Architectural Firms
- Mechanical Engineering Firms
- Electrical Engineering Firms
- Structural Engineering Firms
- Residential Building Contractors
- Commercial Building Contractors
- Interior Design Firms

Model Building and 3-D Drawing and Design



Construction Management Technology Field Trips

New Prairie Green Pro Shop



George McGovern Middle School



HBA Student Chapter Involvement

Home Builders Association

Orlando, FL Or Las Vegas, NV



HBA Student Chapter Involvement

Sioux Empire Home Show



Lumberman's Convention



From the Beginning to End

Jump Start Project



Final Graduation

