

WHAT CAN YOU DO WITH A DEGREE IN ARCHITECTURAL MODELING & DESIGN TECHNOLOGY?

Architectural modeling technicians are engaged at the front end of new construction and renovation projects. Their work lays the foundation for quality design and functionality within project budgets.

This NDSCS program prepares students in as little as 18 months for immediate employment with architectural firms, engineering firms, manufacturers, contractors, and home builders.



NDSCS Student Project



ENTRY-LEVEL CAREERS

- Revit Modeler
- BIM Technician
- CAD Technician
- Structural Drafter/Modeler
- Electrical Drafter/Modeler
- Mechanical Drafter/Modeler
- Residential Designer
- Project Coordinator
- Construction Related Salesperson
- Other Design, Construction and Building-Related Positions



Watch the **ARCHITECTURAL MODELING & DESIGN TECHNOLOGY** video.

Scan QR code with a smart device to watch our video.

Watch **NDSCS CAREER VIDEOS** at **YouTube /NDSCSWILDCATS**

CONTACT INFORMATION



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NDSCS.edu/Architectural-Design
Academic Options | Course Descriptions
Laptop and Software Information

The North Dakota State College of Science is accredited by The Higher Learning Commission,
230 South LaSalle Street, Suite 7-500, Chicago, IL 60604, 800-621-7440 10/22 1,500

ARCHITECTURAL MODELING & DESIGN TECHNOLOGY



Some Courses Available Online!

NDSCS.edu/Architectural-Design

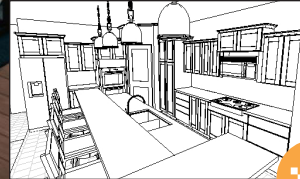


NORTH DAKOTA STATE COLLEGE OF SCIENCE

ARCHITECTURAL MODELING & DESIGN TECHNOLOGY



NDSCS Student Project



WIRE-FRAME 3D MODEL



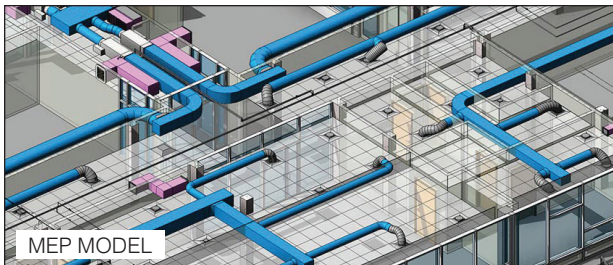
BIM RENDERED MODEL

LEARN FROM INDUSTRY EXPERTS

Our instructors have been working in the design and construction industry and bring their real-world experiences into the classroom to educate students. The instructors continue to stay current with industry trend by working in the industry each summer.

BUILDING INFORMATION MODELING (BIM)

- Prepare detailed 3D models of architectural designs, structural designs, and/or mechanical and electrical design.
- Convert designs provided by an architect or engineer into working construction drawings
- Prepare realistically rendered 3D building proposals.

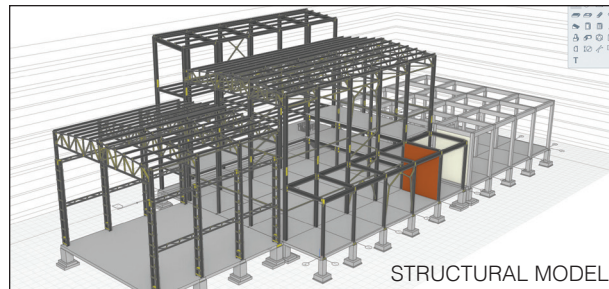


MEP MODEL

REAL-WORLD APPLICATIONS

While in the program, you'll have several opportunities to apply your skills and expertise to real-world challenges:

- **Design Charrette** – Each year students participate in a comprehensive team design competition that allows collaboration, communication and conflict resolution while applying acquired technical skills to a real-life project.
- **Renovation and Design** – Second-year students become part of a team that works directly with a business or home owner. You'll schedule meetings, draw as-built plans, and design, model and develop plans for renovations based on the client's needs.



STRUCTURAL MODEL

HANDS-ON LEARNING

NDSCS students learn by doing. You will experience training in Revit modeling, structural modeling, mechanical and electrical modeling, presentation techniques and renovations. You'll apply the latest processes and techniques using a commercial-grade laptop with the most advanced software and technologies.

As a student you will utilize Autodesk Revit, a three-dimensional modeling software to develop complete sets of construction plans. While developing these projects you will create the models of different types of construction, including: residential, multi-family, pre-engineered and commercial buildings.



NDSCS Student Project

INDUSTRY PARTNERSHIPS

We identified the top twelve employers who have been hiring our graduates over the last 10 years. With fairly equal representation from Architectural firms, Engineering firms, and Manufacturing companies we formed a new Advisory Committee to identify the skills and knowledge students need to be successful for entry level positions with their company/firm. Our courses have been updated to reflect the latest skills and knowledge needed by industry for graduates to be successful. These partners also provide Job Shadow experiences, summer paid work experiences, field trips, guest speakers, and many other educational opportunities for our students.