

Northwestern School Corporation
Technology Education Curriculum
Course Outline

Introduction to Construction

Introduction to Construction Technology

- The lab, tools, and materials
- Types of Construction
- Buildings and civil structures
- Designing, producing, using, assessing
- Problem solving in construction
- Careers in Construction Technology

Laboratory and Tool Safety

- Safety Video
- Safety demonstrations
- Safety lectures
- Safety tests
- Safety Contracts

Lab and Tool Maintenance

- Tool Organization
- Tool repair
- Tool Checklists

Designing Structures

- Designing construction projects
 - Working Drawings
 - Cross section drawing

Building Codes

Buildings Construction

- Initiating the project
- Site work
- Building the structure
 - Wall Section Activity
 - Floor framing
 - Wall framing
 - Roof framing

- Installing systems
- Enclosing and finishing

Constructing Civil Structures

- Initiating the project
- Site work
- Building the Structure
 - Civil Structure Activity
- Enclosing and finishing
- Construction techniques

Repairing Constructed Structures

- Selecting a structure
- Repairing and maintaining structures
 - Repairing a structure activity
- Community Planning
 - Assessing communities
 - What is a community?
 - Community Planning Activity
- Final Exam Semester 1

- Laboratory and Tool Safety Review
 - Safety Demonstrations
 - Safety Contracts
 - Safety Tests
 - Safety Lectures
 - Safety Packets
 - Safety Worksheets
- Designing a house
 - Room Layouts
 - Exploring house plans
 - Floor Plan
 - Drafting to Scale
 - Reading and Using an Architectural Scale
 - Using a T-Square/drafting triangles
 - Materials List
- Framing a house
 - Floor
 - Walls
 - Windows
 - Headers
 - Roof
 - Foundations
- Construction Careers
 - Exploring Careers
- Carpentry
 - Measurement accuracy
 - Using tools accurately
 - Finishing block activity
 - Adirondack chair activity
- Final Exam Semester 2