

Placement Information

According to 2007 data, the placement rate for graduates in this program was 100%. Starting wages ranged as high as \$14.50/hour.

Estimated Program Costs

Architectural Design & Building Construction

Tuition	\$5476
State Facility Fee	\$778
Technology Fee	\$400
Program Fees	\$1850
Maintenance Fee	\$74
Student Services Fee	\$384
Books & Tools (estimated)	<u>\$2100</u>
Total estimated* program cost (2 years)	\$11,062

*All costs listed are estimated and are subject to change at any time. Students will receive final costs at the time of course registration each semester.

First Year

First Semester	Semester Credits
AD 101 <i>Principles of Drafting I</i>	3
AD 151 <i>Architectural Drafting Lab I</i>	4
AD 172 <i>First Aid/CPR</i>	0.5
BC 121 <i>Principles of Building Construction I</i>	5
BC 151 <i>Building Construction Lab I</i>	4
CIS 105 <i>Microcomputer Software Applications</i>	3
	19.5

Second Semester	Semester Credits
AD 102 <i>Principles of Drafting II/CAD</i>	2
AD 152 <i>Architectural Drafting Lab II</i>	4
BC 122 <i>Principles of Building Construction II</i>	3
BC 130 <i>Cabinetry</i>	2
BC 152 <i>Building Construction Lab II</i>	3
ENGL 201 <i>Technical Writing</i>	3
PSYC 101 <i>General Psychology (AAS)</i>	3
	20/17

Second Year

Third Semester	Semester Credits
AD 201 <i>Sales Management</i>	2
AD 211 <i>Estimating I</i>	3
AD 241 <i>Principles of Commercial Construction</i>	3
BC 221 <i>Concrete Technology</i>	2
BC 251 <i>Building Construction Lab III</i>	5
Social Science Elective (AAS)	3
	18/15

Fourth Semester	Semester Credits
AD 212 <i>Estimating II</i>	3
AD 262 <i>Accounting</i>	3
BC 252 <i>Building Construction Lab IV</i>	5
BC 272 <i>Construction Management</i>	3
BC 294 <i>Advanced Farm Buildings Lab</i>	2
Mathematics Elective (AAS)	3
	19/16

Architectural Design & Building Construction

- Real construction experience to prepare you for the world of work
- Diverse areas like drafting, design, estimating and management
- State-of-the-art CAD lab
- Hands-on construction of two residential homes
- Experience in cabinetry, rough and finish construction, concrete, drywall and more
- AAS or diploma option
- Great job opportunities

AD 101 PRINCIPLES OF DRAFTING I

Drawing methods in architectural drafting. Site planning and plot plans drawing are presented. Computer-aided drafting (CAD) is introduced.

AD 102 PRINCIPLES OF DRAFTING II/CAD

Continuation of AD 101. Coordinates design including electrical layout and mechanical planning. Emphasis is placed on zoning and traffic flow. Computer Aided Design (CAD) software is utilized.

AD 151 ARCHITECTURAL DRAFTING LAB I

Use and care of drawing instruments, application of skills to basic engineering drawing of orthographic projection, sections, dimension techniques, pictorial drawings and plot plans.

AD 152 ARCHITECTURAL DRAFTING LAB II

Drawing components of residential structures. Efforts directed towards precisely correlating the drawings completed in the drafting room with the building project under construction. CAD is emphasized.

AD 172 FIRST AID/CPR

Practice and certification in first aid and CPR, as well instruction in construction equipment and safety.

AD 201 SALES MANAGEMENT

Basic principles of selling, marketing and human relations. Selling in situations relating to the modern retail lumber business is covered comprehensively.

AD 211 ESTIMATING I

Procedures used to estimate and prepare surveys for completing estimates. From working drawings and material specifications, calculations are derived. Labor needs are estimated.

AD 212 ESTIMATING II

A continuation of AD 211.

AD 241 PRINCIPLES OF COMMERCIAL CONSTR.

Study of commercial construction. Drawing of commercial plans is done. Emphasis is placed on terminology, material, and typical fastening techniques.

AD 262 ACCOUNTING

Introduction to the principles of industrial accounting.

BC 121 PRINCIPLES OF BUILDING CONSTR. I

Basic safety, operation and maintenance of hand tools, power tools and miscellaneous equipment. Construction of a residence is taught in shop. Included are layout and frame, finish (exterior), insulation (interior and exterior), and hanging, taping, and texturing.

BC 122 PRINCIPLES OF BUILDING CONSTR. II

Interior finishing work of a residential house. Emphasis are on materials and processes involved in finishing the interior.

BC 130 CABINETRY

Basic principles of cabinet construction. Lab projects will include construction of cabinets for the MTI shop house.

BC 151 BUILDING CONSTRUCTION LAB I

Basic principles of framing a residential house. Use, purchase and maintenance of hand tools and power tools are emphasized. First aid, fire equipment and scaffold safety is stressed Interior/exterior insulation and interior dry wall taping are taught.

BC 152 BUILDING CONSTRUCTION LAB II

Study of the materials and processes involved interior finishing.

BC 221 CONCRETE TECHNOLOGY

Principles of concrete with emphasis on reinforced concrete substructures. Introduction to masonry practices and projects are included.

BC 251 BUILDING CONSTRUCTION LAB III

Details of foundation construction, framing and exterior finish.

BC 252 BUILDING CONSTRUCTION LAB IV

Provides training and experience in the completion of a residential structure with emphasis on interior finish and millwork.

BC 272 CONSTRUCTION MANAGEMENT

Introduction to the responsibilities of small business entrepreneurship.

BC 294 ADV. FARM BUILDINGS LABORATORY

Construction taught at a farm or ranch site. In partnership with the MTI Agricultural Technology department, students construct an on-site structure for a specific ag-related purpose. Projects may include the construction of a farm building: pole barn, machinery shed, confinement unit, etc.