

Construction (CSTN)

CSTN 105. Introduction to Woodworking. 3 Credits.

A study in the use of equipment and procedures used in wood construction. Areas of concentration will be wood and related materials, joint design, adhesives, fasteners, hand tools, machine tools, setup and procedures, and safety. Emphasis will be on dedicated objectives with a final project.

CSTN 120. Carpentry Bscs & Rough-In Frmg. 4 Credits.

This course introduces the carpentry trade, including history, career opportunities, and requirements. The course deals with the identification and application of a variety of building materials, fasteners, and adhesives. The skills needed for framing a simple structure are studied and practiced. The course also covers installation procedures for windows and exterior doors.

CSTN 132. Metal Building Construction. 1 Credit.

This course is designed to meet the needs of those entering a position in carpentry technology for the first time. The curriculum will provide students with working knowledge and experience in the field of carpentry technology. The specific course goals support the overall goals of a construction technology program. Co-requisite: CSTN 220. Prerequisites: IT 115, IT 111, and CSTN 120 or instructor's approval.

CSTN 135. Basic Rigging. 1 Credit.

Explains how ropes, chains, hoists, loaders, and cranes are used to move material and equipment from one location to another on a job site. It describes inspection techniques and load-handling safety practices as well as reviews American National Standards Institute (ANSI) hand signals. Prerequisite: IT 111.

Course Fees: \$10.50

CSTN 145. Ext Finish, Stair, & Metal SF. 3 Credits.

This course covers the stages involved in carpentry from site layout to constructing the footings and foundations. The course introduces site layout, measurement, and leveling procedures and introduces some applications of concrete and reinforcing materials. Prerequisites: IT 115 and CSTN 120 or instructor's approval. Co-requisites: CSTN 160 and CSTN 161 and IT 111.

CSTN 160. Constructn Cncpts & Bldg Lab. 3 Credits.

This course provides hands-on experience in which the student applies the basic skills and knowledge presented thus far in the NCCER Carpentry Program. This course is designed as a practical task-orientated exercise utilizing the skills covered in CSTN 120. Co-requisites: CSTN 145 and CSTN 161 and IT 111. Prerequisites: CSTN 120 or instructor's approval.

CSTN 161. Constructn Cncpts & Bldg Lb II. 3 Credits.

This course covers the stages involved in carpentry from site layout to constructing the footings and foundations. This course introduces site layout, measurement, and leveling procedures as well as some applications of concrete and reinforcing materials. The operation of light equipment such as skid steer, fork lift and back hoe equipment will be covered.

CSTN 171. Ste Prp, Fndtns, Cncrt Instltn. 4 Credits.

This course introduces building forms for footings and foundations as well as for a variety of concrete structures. It introduces methods for handling, placing, and finishing concrete. It also covers manufactured forms and their applications. Prerequisite: IT 115.

CSTN 191. Special Topics. 3 Credits.

Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

CSTN 192. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

CSTN 217. Furniture & Cabinetmaking. 3 Credits.

Students will be introduced to the principles and practices of furniture and cabinet making.

CSTN 220. Interior Finishing. 4 Credits.

Introduces students to materials and methods for sheathing, exterior siding, stairs and roofing. The framing that was done on the building project during CSTN 120 will be used to continue studies in this course. Students will apply the knowledge and skills presented during this course to enclose the structure. Students will lay out and build a simple stair system. This course also covers framing with metal studs. Co-requisite CSTN 230 Prerequisites: IT 115, IT 111, and CSTN 120 or instructor's approval.

CSTN 230. Adv Rf, Flr, Wll, Stair Sysms. 4 Credits.

Introduces students to trigonometric leveling, which is used to lay out foundations. This course covers the installation methods and materials for various roofing systems. It covers a variety of flooring applications as well as interior wall construction for residential and commercial structures. Prerequisites: CSTN 120, IT 115, or instructor's approval.

CSTN 260. Constructn Cncpts & Bldg Lb III. 4 Credits.

Provides students the opportunity to practice skills they have acquired in the entire carpentry program. It includes task-orientated projects in which students can apply many of the skills and knowledge that have been presented throughout the NCCER Carpentry program. This course is designed as a practical task-orientated exercise utilizing a variety of skills covered in all the NCCER carpentry courses required for the AAS degree. Co-requisites: CSTN 171, CSTN 230, and CARP 240. Prerequisite: CSTN 220 or instructor's approval.

CSTN 292. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

CSTN 392. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

CSTN 492. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

CSTN 498. Cooperative Education. 1-12 Credits.

A planned and supervised work-learning experience in industry, business, government, or community service agencies related to the University program of study. Prerequisites: two semesters of attendance at Montana State University-Northern, approval of advisor, Dean of the College of Technical Sciences, and cooperative education coordinator. Pass/Fail Only.

CSTN 592. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.