CSTN - CONSTRUCTION TRADES

CSTN 108 Intro to Flooring Installation. 4 Credits
Introduces basic concepts, practices, and procedures related to the floor covering installation trade. It covers proper safety procedures in the operation of hand and power tools that are related to the trade. This course also reviews and applies math related to floor covering installation.
Lecture Hours 4
Department: Transportation - COT

CSTN 120 Carpentry Bscs & Rough-In Frmg. 4 Credits
Corequisite(s): CSTN 160.
Introduces the carpentry trade, including history, career opportunities, and requirements. This course covers a variety of building materials, fasteners, and adhesives. It also covers installation procedures for windows and exterior doors. Skills required for framing a simple structure are studied and practiced.
Lecture Hours 4
Department: Engineering & Industrial - COT

CSTN 145 Ext Finish, Stair, & Metal SF. 4 Credits
Prerequisite(s): CSTN 120, CSTN 147, CSTN 160.
Corequisite(s): CSTN 161.
Introduces students to materials and methods for sheathing, exterior siding, stairs, and roofing. Students will lay out and build a simple stair system as well as a metal stud wall with door and window openings.
Lecture Hours 4
Department: Engineering & Industrial - COT

CSTN 147 Blueprint Reading. 3 Credits
Concentrates on concepts associated with blueprint reading, sketching, and interpreting light commercial and residential drawings. It includes instruction in the recognition of construction materials, procedures, specifications, and methods of estimating construction costs from blueprints. This course also covers trade-specific symbols found on construction drawings.
Lecture Hours 3
Department: Engineering & Industrial - COT

CSTN 148 Blueprint Codes and Est.. 2 Credits
Term Typically Offered: Fall
Studies estimates, specifications and plans of residential and light commercial structures. Estimates of excavation and backfill, structural, finish and other construction materials are prepared.
Lecture Hours 1.8, Lab Hours .2
Department: Engineering & Industrial - COT

CSTN 160 Constructn Cncpts & Bldg Lab. 5 Credits
Corequisite(s): CSTN 120.
Provides hands-on experience in which the student applies, with direct supervision, the basic skills and knowledge presented thus far in the NCCER Carpentry Program. The course is designed as a practical task-oriented application utilizing the skills covered in prerequisites as well as in parts of CSTN 145.
Lecture Hours 5
Department: Engineering & Industrial - COT

CSTN 161 Constructn Cncpts & Bldg Lb II. 4 Credits
Prerequisite(s): CSTN 120, CSTN 147, CSTN 160.
Corequisite(s): CSTN 145.
Provides hands-on experience in which the student applies, with direct supervision, the basic skills and knowledge presented thus far in the NCCER Carpentry Program. The course is designed as a practical task-oriented application utilizing the basic skills learned in CSTN 120 and CSTN 145. The course will emphasize basic application in the areas of exterior finishing and interior finishing.
Lecture Hours 4
Department: Engineering & Industrial - COT

CSTN 220 Interior Finishing. 4 Credits
Prerequisite(s): CSTN 230 and CSTN 295.
Corequisite(s): CSTN 299.
Covers materials and installation techniques for interior trim, countertop, base cabinet, and wall cabinet. It also covers suspended ceiling materials, layout, and installation as well as wood and metal door installation.
Lecture Hours 4
Department: Engineering & Industrial - COT

CSTN 230 Adv Rf, Flr, Wll, Stair Systms. 4 Credits
Prerequisite(s): CSTN 120, CSTN 145, CSTN 160, CSTN 161, or instructor's approval.
Corequisite(s): CSTN 295.
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. It also covers advanced staircase construction.
Lecture Hours 4
Department: Engineering & Industrial - COT

CSTN 270 Fndtns of Cnstrctn Prjct Mgmt. 3 Credits
Term Typically Offered: Spring
Corequisite(s): CSTN 272.
Introduces topics including licensing, code jurisdictions, building inspection, record keeping, timelines, project development, ordering materials, supervision of construction, OSHA, employee rights, safety requirements, subcontractors, construction loans, fundamentals of cost and profit estimating, advertising, marketing, insurance, contracts, and construction finance. Also includes the topics of general contractor requirements and registration procedures for the State of Montana Department of Labor, and business name selection and registration with the Montana Secretary of State. Students will learn and be able to interpret zoning maps and identify trends through current and future growth projections, covenants, and restrictions. Course will culminate with students presenting a personal business and project plan from inception to end of project.
Lecture Hours 3
Department: Engineering & Industrial - COT

CSTN 272 Cnstrctn Estmtng Usng Databses. 1 Credit
Term Typically Offered: Spring
Corequisite(s): CSTN 270.
Provides the student with an appropriate professional set of tools for executing takeoffs and cost projections/estimates. The course is aligned with CSTN 270 to model a complete business plan including bidding, time management, projected costs, overhead, profit, taxes, and required fees. This course furthers the transformation of the student as a competent and professional business person.
Lecture Hours 1
Department: Engineering & Industrial - COT

CSTN 292 Independent Study. 1-5 Credits
Department: Engineering & Industrial - COT

CSTN 294 Seminar/Workshop. 1-3 Credits
Department: Engineering & Industrial - COT

CSTN 295 Constr Conc & Bldg Lab III. 5 Credits
Prerequisite(s): CSTN 145, CSTN 161, or instructor's approval.
Corequisite(s): CSTN 230.
Provides hands-on experience in which the student applies with supervision the skills and knowledge presented thus far in the NCCER Carpentry Program. The course is designed as a practical task-oriented application emphasizing the advanced applications in floor, wall, roof, and stair systems learned in CSTN 230.
Department: Engineering & Industrial - COT

CSTN 299 Capstone: Carpentry. 4 Credits
Prerequisite(s): CSTN 230 and CSTN 295.
Corequisite(s): CSTN 220.
Provides hands-on experience in which the student applies with supervision the skills and knowledge presented thus far in the NCCER Carpentry program. The course is designed as a practical task-oriented application emphasizing the applications of interior finishing learning in CSTN 220.
Lecture Hours 4
Department: Engineering & Industrial - COT