

COURSES

PDF CONSTRUCTION

CONS108 Construction Materials and Methods I 4 Credits

Prerequisite: MATH 110 or higher. Studies the various types of buildings and structures utilized in industrial, commercial and residential construction. Examines peculiarities and potential problem areas for each type of construction. Construction sequencing, inspection sequencing and required testing will be outlined as well as observable "red flags" that can be indicative of potential problems.

CONS109 Construction Materials and Methods II 4 Credits

Prerequisite: CONS 108 Teaches students about the typical materials used in the construction of bridges, roads, pathways, and small commercial buildings. Includes testing procedures, material properties, design, specification, and installation methods using certification standards and guidelines.

CONS111 Commercial Building Codes 3 Credits

Introduces the international residential building code. Covers aspects of any code and how to search, interrupt, understand, and implement the code.

CONS118 Construction Documents Contract 2 Credits

Prerequisite: BUS 107 and ENG 100 or 101 with a grade of C or better Explores various bid documents including architectural and engineering blueprints, shop drawings and proposals. Common construction contracts and their implications will be explained as well as accepted procedures for resolution of contract disputes.

CONS120 Blueprint Reading and Specification 3 Credits

Equips students with technical and practical interpretation of blueprints. Assignments are made in relation to complete sets of working drawings. Students study construction relationships between architectural, structural, electrical and mechanical drawings, bidding along with inspection procedure technique.

CONS121 Principles Of Construction Estimating 3 Credits

Prerequisite: CONS 120 and CONS 216 Presents basic criteria and procedure for estimating labor and material in residential and commercial applications.

CONS198 Special Topics in Construction 0 Credits

Various short courses and experimental classes covering a variety of subjects. Course will be variable credit of one-half to six credits depending on the course content and number of hours required. May be repeated for up to six credits.

CONS205 Construction Site Safety 1 Credit

Includes 30 hours of authorized training addressing the OSHA construction standards. Additional topics include the identification of asbestos, lead and radon in potential construction

projects. Upon completion, students will be issued a course completion wallet card by the U.S. Department of Labor's Occupational Safety and Health Administration.

CONS230 Electrical Distribution System 2 Credits

Prerequisites: CONS 120 Explains electrical theory, distribution systems and wiring techniques utilized in the construction industry. Topics will include high voltage distribution, grounding, GFCI's, transformers, load centers and circuits. Actual wiring techniques will be practiced in conjunction with electrical troubleshooting.

CONS260 Certified Inspectors of Structures-Residential 3 Credits

Provides prescribed course of instruction for Certified Inspector of Structures as per the state of Nevada.

CONS261 Under-Floor Inspections-Certified Inspector 1 Credit

Prerequisites: CONS260B Provides instruction on all of the under-floor components that the Certified Inspector of Structures must inspect to complete a certified inspection per 645D of the Nevada Administrative Code. Students will complete two supervised under-floor inspections and prepare extensive narrative inspection reports for evaluation. They will be required to sign "hold harmless" waivers when conducting inspections off state property. Students are strongly encouraged to have medical insurance that provides coverage in the event of a job-site injury.

CONS262 Above-Floor Inspections for Certified Inspector 2 Credits

Prerequisites: CONS260 Provides instruction on all of the above-floor components typical of residential construction. Seismic and structural hardware will be discussed as will load-bearing, load-transferring and non-load-bearing assemblies. Extensive mechanical and electrical systems analyses will be conducted. Students will prepare extensive narrative inspection reports for evaluation, and sign "hold harmless" waivers when conducting inspections off state property. Students are strongly encouraged to have medical insurance that provides coverage in the event of a job-site injury.

CONS263 Supervised Residential Inspections for Certification 2 Credits

Prerequisites: CONS260 Provides instruction on conducting residential inspections as per 645D of the Nevada Administrative Code. Students will explore methodologies for conducting inspections and develop an inspection format that they will utilize while completing ten supervised inspections. Students must complete ten inspection reports to be evaluated by the instructor and sign "hold harmless" waivers when conducting inspections off state property. Students are strongly encouraged to have medical insurance that provides coverage in the event of a job site injury.

CONS270 Construction Management 1 Credit

Prerequisites: CONS 260 or Consent of Instructor Provides the necessary lecture and laboratory experience to satisfy the state regulations concerning the General Level Inspection Regulation NAC 645D.120. Course number or instructor approval needed.

CONS275 Master Inspector Requirements 1 Credit

Prerequisites: CONS 270 and consent of Instructor Provides the necessary lecture and laboratory experience to satisfy the state regulations concerning the Master Level Inspection Regulation NAC 645D.130.

CONS281 Construction Planning Scheduling and Control 3 Credits

Explores project implementation including logistics, scheduling, delegation of responsibility and quality control.

CONS290 Internship in Construction 3 Credits

Prerequisites: None Studies project management techniques on-site under the supervision of a project manager or superintendent.

CONS295 Work Experience I 1 Credit

Prerequisites: consent of instructor Studies project management techniques on-site under the supervision of a project manager or superintendent.

CONS451 Advanced Internship in Construction 3 Credits

Additional prerequisites: CONS 281 and consent of instructor. Studies advanced project management techniques on-site under the supervision of a project manager or superintendent and instructor. In consultation with the student, based on the specific internship, instructor determines additional learning objectives in addition to standard course learning objectives. Includes interaction with the instructor on a weekly basis. Assignments are required.