CONSTRUCTION MANAGEMENT (BLD)

BLD 101 Construction Management I (3 CR.)
Presents overviews of all phases of construction project management. Introduces students to philosophy, responsibilities, methodology, and techniques of the construction process. Introduces topics related to the construction and design industries, organizations, construction contracts, bidding procedures, insurance, taxes, bonding, cost accounting, business methods, including basic computer usage, safety, and general project management procedures. Lecture 3 hours per week.

BLD 102 Construction Management II (3 CR.)
Emphasizes advanced management techniques and methodology. Includes engineering economics, accounting principles, life cycle costing, value engineering, systems analysis with computer applications, work improvement, quality control, and a broad overview of the construction management profession. Lecture 3 hours per week.

BLD 115 Building Codes (3 CR.)
Examines the building codes and standards applicable to building construction and inspection processes. Covers how to search, interpret and implement the Virginia Uniform State Wide Building Code. Lecture 3 hours per week.

BLD 165 Construction Field Operations (2 CR.)
Introduces areas of construction field management which relate directly to on-the-job requirements of construction operations viewed from the construction superintendent's standpoint. Includes theories of project management and field supervision; utilization of equipment, labor and material; construction site development; requirements of field scheduling; management input requirements; job recording and documentation; supervision responsibility. May include field trips to project sites. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

BLD 200 Sustainable Construction (2 CR.)
Teaches students the specialized construction management best practices that must be utilized when managing a sustainable project. Course will include industry standards for green construction as identified by popular building rating systems. Lecture 2 hours per week.
Prerequisite(s) BLD 101 plus BLD 165 or Instructor's Permission

BLD 215 OSHA 30 Construction Safety (2 CR.)
Covers all topics included in the OSHA 30-hour course. Lecture 2 hours per week.
Prerequisite(s) OSHA 10 Certification

BLD 231 Construction Estimating I (3 CR.)
Focuses on materials take-off and computing quantities from working drawings and specifications. Includes methods for computing quantities of concrete, steel, masonry, roofing, and excavation. Deals with pricing building components, materials and processes, as well as transportation and handling costs, mark-up discount procedures, equipment cost, and labor rates. Lecture 3 hours per week.

BLD 232 Construction Estimating II (3 CR.)
Presents an introduction to computer programs for construction estimating. Produces a cost estimate for a major project with the aid of a computer program. Lecture 3 hours per week.
Prerequisite(s) BLD 231

BLD 241 Construction Management III (3 CR.)
Presents fundamentals of construction supervision including responsibilities of the construction superintendent, operations manager, general superintendent and project engineer, with factors relating to their work and that of their subordinates, aspects of job leadership, and effective human relations as related to efficient supervision. Lecture 3 hours per week.

BLD 242 Construction Management IV (3 CR.)
Presents a comprehensive overview of all aspects of construction law and labor relations, exposing the students to responsibilities and requirements. Includes history of labor relations in the United States, trade unionism, federal labor laws and their direct effect on construction, OSHA (Occupational Safety and Health Act) laws and regulations that apply. Lecture 3 hours per week.

BLD 247 Construction Planning And Scheduling (3 CR.)
Introduces principles of planning and scheduling of a construction project. Includes sequence of events and processes on a construction site. Studies scheduling techniques including the critical path method. Lecture 3 hours per week.

BLD 298 Seminar And Project (1-5 CR.)
Seminar And Project