BCN 1001 Introduction to Construction Management. F. S. (1) (SU). To familiarize pre-construction students with the nature and functioning of the construction industry and the construction management curriculum. The specific safety regulations pertaining to the construction industry will be emphasized.


BCN 1251C Construction Drawing. F. S. (3). Provides basic working knowledge of architectural graphics, practice in instrumental drawing, and experience in free hand sketching.


BCN 2400C Construction Mechanics Statics. SS. (2). Prereq: PHY 2004 and PHY 2004L. An introductory course in the evaluation of structural behavior as it relates to building. Primarily for building construction majors. The combination of BCN 2400 and 2401 is equivalent to BCN 2405.


BCN 3027C Principles of Construction Management. F. S. (3). Prereq: junior standing, or permission of instructor. Examination of role of various players involved in the construction and the administration of a construction project. Importance of ethical conduct in all aspects of construction business and operations. Development of advanced writing and presentation skills for construction professionals.


BCN 3224C Construction Techniques. F. S. (3). Prereq: BCN 1210 and BCN 1251C. Study of vertical construction process to include wooden platform frame construction, cast-in-place and pre-cast concrete construction, and steel erection. Included are masonry construction, interior and exterior finishes, vertical transportation, roofing and other building components.


BCN 3255C Graphic Communication in Construction. F. S. (3). Prereq: BCN 1251C. Study of construction communication tools, including the use of computer-aided drafting (applications of 4-D modeling in construction), blueprint reading, free hand sketching, model building, piece-based simulations and the Internet.

BCN 3281C Construction Methods Laboratory. F. S. (2). Construction aspects of surveying with field and classroom exercises in the use of transit, level, chain and related equipment.

BCN 3431C Structures. F. S. (3). Prereq: BCN 2405C. To familiarize the student with the material properties, code requirements, analysis, and construction procedures for steel and reinforced concrete structures.

BCN 3521C Electrical Systems. F. S. (2). Principles and practices of electrical systems, including code provisions and cost estimations.


BCN 3700 Construction Contracts. F. S. (3). Prereq: BCN 3027C. Function of the construction industry, construction contracting practices and construction contracts and delivery methods. Demonstrate professional writing and presentation skills. Be aware of the ethical questions that arise in construction contracts and procurement.

BCN 3730 Construction Safety, Health and Environment. F. S. (3). Construction safety issues, concerns, requirements, and procedures. The analysis includes costs, planning, administration, inspection, prevention, loss control and drug-free place. Understanding of the major health issues encountered on construction sites. Appreciation for the need to be environmentally responsible.

BCN 4105 Sustainable Housing: Putting the 3 E’s into Residential Practice. S. (3). Sustainability: The balance and interaction of “the 3 e’s”: environment, economics and social equity. Post-industrial residential planning and building practices have neglected to address the 3 e’s. In this course students will learn “Sustainability” includes more than building green and examine approaches to advance the development and building of sustainable housing.

BCN 4237 Roofing Systems. F. (3). Study and analysis of building various roof systems, including design, materials, installation, inspection and maintenance. Includes damp-proofing and waterproofing techniques.

BCN 4252 Introduction to Building Information Modeling. S. (3). Prereq: BCN 3255C. Learn current building information modeling (BIM) software to identify design errors, to improve construction process.

BCN 4423C Temporary Structures. F. S. (3). Prereq: 3431C, senior standing. To study the temporary structures that contractors have to build in order to construct the primary structure. This includes formwork; scaffolding; and equipment for hoisting materials, personnel, and erecting structures.


BCN 4612C Construction Estimating II. F. S. (3). Prereq: BCN 3611C, BCN 3223C and senior standing. Analysis and determination of cost of construction operations including applicable indirect and overhead costs and the preparation of bid proposals for commercial construction projects. A cost control system is introduced and implemented with sample field generated problems.

BCN 4709C Construction Project Management. F. S. (3). Prereq: BCN 4612C and senior standing. Understanding the various forms of project delivery methods (Design-Bid- Build, Design-Build, and Construction Management) and the underlying principles for choosing the appropriate system. Recognizing the complexity of the preconstruction process including conceptual estimating & scheduling, life cycle costing, constructability reviews, value engineering, risk management, and special contract requirements. Understanding management and administration of a construction project.


BCN 4723 - Design-Build Delivery Methods. F. (3). Prereq: Junior/Senior Standing. Theory and practice of design-build contract delivery method. This will include an explanation of the history of design-build, the advantages and disadvantages of design-build as a delivery method and a thorough analysis of the major components of design and construction.


BCN 4787C Construction Capstone Project. F. S. (3). Prereq: BCN 4612C, BCN 4720, BCN 4753 and senior standing. A construction project will be simulated with each student being responsible for designing, developing, estimating, scheduling, contracting and administering the work for the completion of a small commercial, residential, civil, or light industrial project.

BCN 4880 Management Heavy/Highway Construction F. (3). Prereq: junior or senior standing. Theory and practice of construction planning, methods and project management. Project control from conception through the construction phase: procurement of design professional, prime contractor, subcontractor, construction manager, project/program manager. Also includes definition of and delineation between each entity, construction contract types, delivery systems, heavy/highway plans reading, quality assurance/quality control, nuances of planning and building a unit price project, and project administration.

BCN 4905 Special Studies in Construction. F. S. SS. (1-4). Special areas of study in construction adjusted to the needs of individual students. Enrollment upon recommendation of director only.

BCN 4949 Construction Management Internship. (F. S.) (SS) (3). Minimum two-term employment in construction management. Requires advance approval. Internship work reports and oral presentation also required. (S-U)

BCN 4954 Building Energy Modeling. F. (3) As energy is becoming more precious, it is crucial for building sector to proactively design and operate high performance buildings. To achieve higher standards in building design and operation, a solid foundation of energy engineering and sustainability principles is essential.

BCN 4956 International Studies in Construction. SS. (1-4; can be repeated with a change in content up to 6 credits). Prereq: Admission to a UF approved study abroad program and permission of the school director. Formal course work taken at a foreign university as part of an approved study abroad program. The course focus is on the construction industry in the host country. Course content will vary and may address various construction issues including local construction techniques, construction materials, and the influence on construction of the local culture, traditions, architecture, history, and political climate.