BCN 1001 Introduction to Construction Management. F. S. (1) (S/U). 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 precast concrete construction, and steel erection. Included are masonry construction, interior and exterior finishes, vertical transportation, roofing and other building components.


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 intersection of “the 3 e’s”: economics, environment and social equity. Post-industrial residential planning and building practices have neglected to address the 3 e’s. In this course students will learn “Sustainable” 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, maintenance. Includes dampproofing and waterproofing techniques.

BCN 4252 Introduction to Building Information Modeling. S. (3). Prereq: BCN 3225C. 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 housing materials, personnel, and erecting structures.


BCN 4594 Building Energy Modeling. F (3’ as energy becomes a more precious commodity, it’s crucial to design and operate high performance buildings. A solid foundation of energy engineering and sustainability principles is essential to achieving these higher performance standards.


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.