BUILDING CONSTRUCTION (BC)

BC 6002. Issues in Sustainable Construction Technology. 3 Credit Hours.
Course designed to help students achieve a basic understanding of the materials used in the commercial segments in the construction industry and how these relate to sustainable construction.

BC 6004. Sustainable Energy in Architecture, Engineering and Construction. 3 Credit Hours.
An introductory course on sustainable energy in architecture, engineering and construction. The goal of the course is to introduce students to fundamental concepts of sustainable sources of energy to power buildings and address the impact of these sources to applicable green building rating systems.

BC 6025. Construction Management. 3 Credit Hours.
An accelerated paced course providing graduate students a basic understanding of fundamental topics including planning, budgeting, estimating, scheduling and project closeout.

BC 6050. Building Information Modeling for Multi-disciplinary Integration. 3 Credit Hours.
This course introduces students to BIM and the changes it has been causing to the traditional design, planning, management, construction, facility management, and contracting practices. Credit will not be awarded for both BC 4050 and BC 6050.

BC 6100. Professional Trends in Facility Management. 3 Credit Hours.
An introductory course covering the organizational, managerial, ethical, and legal principles for the delivery of facility management services. Includes contracts and risk management.

BC 6125. Professional Internship. 3 Credit Hours.
A course in which students work for a professional architecture/engineering/contracting company in which they learn, first-hand, about the construction industry.

BC 6150. Design-Build Organization and Management. 3 Credit Hours.
Introduction to Design-Build (DB) as a project delivery system. Provides information about the organization, the process, and the effects of DB on the industry.

BC 6175. Real Estate Development and Construction. 3 Credit Hours.
Provides an overview of the real estate development process as it pertains to construction development including trends and current issues.

BC 6185. Introduction to Construction Program Management. 3 Credit Hours.
Survey of the construction program management profession, focusing on the comprehensive management of single and multiple building programs including pre-design, design, construction and post-construction activities.

BC 6200. Maintenance Management of Built Assets. 3 Credit Hours.
This course covers the processes by which a facility and its systems are serviced and maintained during the facility's life cycle. Includes acquisition, installation, operation, maintenance, and disposal of built assets.

BC 6250. Value Management for Integrated Facility Design and Construction. 3 Credit Hours.
Principles and methodology of value management analysis concepts and an examination of future values and worth criteria affecting building design, construction, furnishings, and operations performance.

BC 6275. Community Dsgn & Constr. 3 Credit Hours.
An overview of the principles of smart growth, livable communities and new urbanism and how these principles are implemented in the process from design to construction and marketing.

BC 6285. Management of Pre-design Phase as Owner. 3 Credit Hours.
Examination of the Program Manager's role and responsibilities as owner during the pre-design phase including feasibility, organization, financing, legal, entitlement, planning, budgeting, scheduling, and team selection.

BC 6300. Safety and Environmental Issues. 3 Credit Hours.
This course covers the environmental issues related to the performance of buildings and the health and risk factors for new and existing buildings.

BC 6350. Design and Construction Law. 3 Credit Hours.
Overview of construction law and legal issues encountered by the construction manager including U.S. laws, general concepts and definitions, contractor relationships, and relevant case studies.

BC 6375. Trends & Pol For Res Dev. 3 Credit Hours.
An overview of development in the United States, current trends in residential development, and the impact of governmental regulations on residential development. This course is designed to help Building Construction students understand how their development impacts the social environment and quality of life of the community.

BC 6385. Management of Design Phase as Owner. 3 Credit Hours.
Examination of the Program Manager's role and responsibilities as Owner during the design phase.

BC 6400. Facility Planning, Project Management, and Benchmarking. 3 Credit Hours.
This course introduces the techniques of planning project management, benchmarking, and their applications to facility management. Includes space forecasting, scheduling and control of projects, and benchmarking studies.

BC 6500. Real Estate Asset and Income Property Management. 3 Credit Hours.

BC 6550. Design and Construction Processes for Integrated Services. 3 Credit Hours.
Offers a framework for use and application of design, contract, and performance documents for successful execution of various forms of integrated project delivery systems.

BC 6575. Real Estate Production Finance. 3 Credit Hours.
Business model and financing process required to produce new real estate developments through an investigation of land acquisition, development and construction financial management.

BC 6585. Management of Construction as Owner. 3 Credit Hours.
Survey of construction management from the owner's perspective.

BC 6600. Facilities Management Financial Analysis. 3 Credit Hours.

BC 6650. Advanced Project Management. 3 Credit Hours.
A four-phased coverage of project management including organization, planning and scheduling, control, budgeting, and ending with project testing, evaluation, and termination.

BC 6675. Residential Design and Construction. 3 Credit Hours.
Course will examine the application of market, community, and regulatory factors to single family housing design and construction; construction management process required for efficient delivery.
BC 6685. Leadership and Communications in Design and Construction. 3 Credit Hours.
Framework and guidelines for effective leadership and communications during design and construction.

BC 6700. Advanced Facility Management Practices. 3 Credit Hours.
Students apply specific methods and procedures from core courses to actual business situations in the facility and property management industry.

BC 6731. Zero Energy Housing. 3 Credit Hours.
Design, analysis, operation, construction, and cost feasibility of so-called "zero energy" houses. Credit not allowed for both BC 6731 and ARCH 6731.

BC 6800. Facility and Property Management Capstone. 3 Credit Hours.
Designed to integrate the learning from basic topics through the use of actual case studies and situations found within the facility and property management industry.

BC 6910. Best Practices in Multi-Family Property. 3 Credit Hours.
A course designed to provide students with a broad range of the best practices related to the management of all types of multi-family residential property.

BC 6920. Introduction to Residential Property Management. 3 Credit Hours.
A course designed to orient students to the basics of apartment management and includes the business functions of marketing, leasing, and financing.

BC 6930. Intg Design Constr & Dev. 3 Credit Hours.
This course will focus on contemporary integrated approach to design, construction and development. Course involves real-world project analysis from multiple points of view. Examples to be selected from the Atlanta region.

BC 6XXX. Bldg Construct Elective. 1-21 Credit Hours.

BC 7000. Master's Thesis. 1-21 Credit Hours.

BC 7100. Quantitative Methods for Construction Research. 3 Credit Hours.
Introductory course in graduate research in the building construction industry. Covers types of research, sampling methods, and basic analysis and evaluation techniques.

BC 7200. Advanced Readings in BC in Preparation for the PhD Comprehensive Examination. 1-12 Credit Hours.
This course is designed around advanced readings in research and practice for PhD students working in the building construction area.

BC 8000. PhD Seminar for Students with Building Construction Emphasis. 1 Credit Hour.
This is an introduction to PhD-level research in Building Construction.

BC 8100. Research Methodology. 3 Credit Hours.
Research design course that teaches the basics of creating credible scientific research plans with examples from construction related research.

BC 8803. Special Topics. 3 Credit Hours.

BC 8811. Special Topics. 1 Credit Hour.
Topics of current interest in building construction.

BC 8812. Special Topics. 2 Credit Hours.
Topics of current interest in building construction.

BC 8813. Special Topics. 3 Credit Hours.
Topics of current interest in building construction.

BC 8814. Special Topics. 4 Credit Hours.
Topics of current interest in building construction.

BC 8815. Special Topics. 5 Credit Hours.
Topics of current interest in building construction.

BC 8823. Special Topics. 3 Credit Hours.
Topics of current interest in building construction.

BC 8833. Special Topics. 3 Credit Hours.
Topics of current interest in building construction.

BC 8843. Special Topics. 3 Credit Hours.
Topics of current interest in building construction.

BC 8901. Special Problems. 1-21 Credit Hours.

BC 8902. Special Problems. 1-21 Credit Hours.

BC 8903. Special Problems. 1-21 Credit Hours.

BC 8997. Teaching Assistantship. 1-9 Credit Hours.
For graduate students holding graduate teaching assistantship.

BC 8998. Research Assistantship. 1-9 Credit Hours.
For graduate students holding graduate research assistantship.

BC 8999. Doctoral Thesis Preparation. 1-21 Credit Hours.
This course is designed to synthesize the knowledge and skills developed in previous research courses and apply them to the doctoral dissertation process for students in Building Construction.

BC 9000. Doctoral Thesis. 1-12 Credit Hours.
Preparation of doctoral thesis for Ph.D. in Building Construction.