# Table of Contents

College of Architecture, Design, and Construction ................................................................. 2  
  School of Industrial and Graphic Design ...................................................................................... 21  
    Curriculum in Graphic Design .................................................................................................. 28  
    Curriculum in Industrial Design ............................................................................................... 29  
    Curriculum in Industrial Design - Post-Baccalaureate Industrial Design Studies .................. 30  
    Minor in Industrial and Graphic Design Processes ................................................................. 31  
McWhorter School of Building Science ........................................................................................ 32  
    Curriculum in Building Science ............................................................................................... 37  
School of Architecture, Planning, and Landscape Architecture .................................................. 39  
    Curriculum in Architecture (Foundation Unit) ........................................................................ 51  
    Curriculum in Architecture (Summer Design) ......................................................................... 52  
    Curriculum in Architecture/Interior Architecture (Foundation Unit) ...................................... 54  
    Curriculum in Architecture/Interior Architecture (Summer Design) ....................................... 56  
    History of Architecture and the Built Environment - Minor .................................................... 58  

Majors ........................................................................................................................................... 58  

Curriculum in Environmental Design ........................................................................................... 58  

Curriculum in Environmental Design - Pre-Landscape Architecture Track .............................. 60  

Index ............................................................................................................................................ 62
College of Architecture, Design, and Construction

VINI NATHAN, Dean
KAREN L. ROGERS, Associate Dean for Graduate Studies and Research
C. BEN FARROW, Associate Dean for Academic Affairs and International Programs

THE COLLEGE OF ARCHITECTURE, DESIGN AND CONSTRUCTION (CADC) is committed to preparing professionals in the design and construction industries through professional undergraduate programs in the academic areas of Architecture, Building Science, Environmental Design, Graphic Design, Industrial Design and Interior Architecture and through graduate professional programs in Building Science, Industrial Design, Architecture/Option in Public Interest Design, Landscape Architecture, and Real Estate Development. Collaboration, community engagement, innovation, global connection and critical practice are core values intertwined in all of the programs at the College of Architecture, Design and Construction. Whether working with nationally respected corporations in the Department of Industrial and Graphic Design, associating with major construction companies in the McWhorter School of Building Science, or building facilities to accommodate the needs of some of the state’s underserved citizens in the School of Architecture, Planning, and Landscape Architecture’s Rural Studio, CADC students learn in unique and flexible settings from innovative faculty and through progressive pedagogical models.

The College of Architecture, Design and Construction maintains the right to limit enrollment in all programs and may retain student work for exhibition or for records and accreditation purposes. CADC students in the professional programs are required to pay the CADC Professional Fee during each semester of the professional curriculum.

Minors

• Environmental Design (http://bulletin.auburn.edu/undergraduate/collegeofarchitecturedesignandconstruction/environmentaldesign_minor/)
• Industrial and Graphic Design Processes (p. 31)
• History of Architecture and the Built Environment (p. 58)

Graduate Programs

• Building Construction - MBC, PhD (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/buildingsciencembc_major/)
• Industrial Design - MID (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/industrialdesignmid_major/)
• Landscape Architecture - MLA (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/landscapearchitecturemla_major/)
• Real Estate Development - MRED (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/realestatedevelopmentmred_major/)
• Architecture / Option in Public Interest Design - MS (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/masterarchitectureinterestdesign_major/)

Architecture Courses

ARCH 1000 CAREERS IN DESIGN AND CONSTRUCTION (1) LEC. 1, LST. 1. Introduction to the environmental design and construction professions and the curricula in the chosen field.

ARCH 1010 INTRODUCTION TO ARCHITECTURE DESIGN (6) LEC/STU. 12. Coreq. ARCH 1060. Principles of visual organization, research and design process skills, and the graphic communication of form and ideas.

ARCH 1020 INTRODUCTION TO ARCHITECTURE DESIGN II (6) LEC. 6, LST. 12. Pr. ARCH 1010 and ARCH 1000 and ARCH 1060. Coreq. ARCH 1420. Principles of visual organization, research and design process skills, and the graphic communication of form and ideas.

ARCH 1060 VISUAL COMMUNICATION (2) LEC/STU. 2. Introduction to graphic communication. Focus on developing graphic skills for the purpose of explaining form and communicating ideas via exercises in drafting, sketching, and diagramming.

ARCH 1420 INTRODUCTION TO DIGITAL MEDIA (3) LEC. 3, LST. 0. Pr. ARCH 1060. Introduction to the principles of 2-D and 3-D digital media and how these principles are utilized in architectural design.
ARCH 2010 STUDIO I (6) LEC. 2, LST. 10. Pr. ARCH 1020 and ARCH 1420. Basic issues of architectural design centered around the thoughtful creation of exterior and interior space. Studies of light, material, texture, proportion, scale, and site are integrated into each project.

ARCH 2020 STUDIO II (6) LEC. 2, LST. 10. Pr. ARCH 2010. Fundamental design process skills including observation, analysis, and synthesis.

ARCH 2110 HISTORY OF WORLD ARCHITECTURE I (3) LEC. 3. Pr. ARCH 1020. Examination of the social determinants that shape the public beliefs and practices that produce buildings.

ARCH 2117 HONORS ARCHITECTURAL HISTORY I: HISTORY OF THE BUILT ENVIRONMENT (3) LEC. 3. Pr. Honors College. ARCH 1010. Examination of the social determinants that shape the public beliefs and practices that produce buildings.

ARCH 2210 ENVIRONMENTAL CONTROLS I (3) LEC. 3. Pr. ARCH 1020. This course provides the basic knowledge and skills requisite an architect in the design of environmentally responsive buildings.

ARCH 2220 ENVIRONMENTAL CONTROLS II (3) LEC. 3. Pr. ARCH 1020. This course provides the basic knowledge and skills requisite an architect in the design of environmentally responsive buildings.

ARCH 2600 THE ART OF ARCHITECTURE, PLACE, AND CULTURE (3) LEC. 3. The interrelationship of art, architecture, place, and culture with emphasis on the art of architecture from a global multicultural perspective. Illustrated lecture, readings, and essays.

ARCH 3010 STUDIO III (6) LEC. 2, LST. 10. Pr. ARCH 2020 and ARCH 3110. Builds on ARCH 2010 and 2020. The process of making architecture through critical inquiry and investigation. The physical, social, ethical contexts that inform the design of every building.

ARCH 3020 STUDIO IV (6) LEC. 2, AAB/LST. 10. Pr. ARCH 3010 or ARIA 3020. Builds on ARCH 3010 and adds an emphasis on the integration of construction tectonics in the development of architectural form.

ARCH 3110 HISTORY OF WORLD ARCHITECTURE II (3) LEC. 3. Pr. ARCH 2110 or ARCH 2117. Introduction to key European buildings and towns from the Bronze Age to the Enlightenment. Examines how societal beliefs and practices influence the making of architecture.

ARCH 3120 HISTORY OF MODERN ARCHITECTURE (3) LEC. 3. Pr. ARCH 3110. The history of architecture, 1850-present, with an emphasis on the rise of the modern movement in Europe and the U.S.

ARCH 3320 MATERIALS AND METHODS OF CONSTRUCTION I (3) LEC. 3. Pr. ARCH 1020. The properties and potential design function of materials used in contemporary construction, with an emphasis on foundation systems, wood, and masonry.

ARCH 3410 DESSEIN ELECTIVES (3) LEC. 3. Explorations in the art of representation. Complete descriptions of specific courses and their prerequisites are available from the School of Architecture, Planning and Landscape Architecture Course may be repeated for a maximum of 9 credit hours.

ARCH 3500 SEMINAR IN METHODS AND PROCESSES (3) LEC. 3. Pr. ARCH 2020. The tools and techniques available to the design professional including specific design specializations, and design methodologies. Descriptions of specific seminars are available from the School of Architecture. Course may be repeated for a maximum of 9 credit hours.

ARCH 3600 SEMINAR IN CONTEMPORARY ISSUES (3) LEC. 3. Pr. ARCH 2020. Investigation of significant topics that present opportunities and constraints to architectural thought and practice. Course may be repeated for a maximum of 9 credit hours.

ARCH 3700 SEMINAR IN HISTORY AND THEORY (3) LEC. 3. Pr. ARCH 2010. Investigation of theories, schools or periods to examine the potential and limitations of architecture. Descriptions of specific seminars available from School of Architecture. Course may be repeated for a maximum of 9 credit hours.

ARCH 3710 SEMINAR IN HISTORICAL PERSPECTIVES (3) LEC. 3.

ARCH 3800 SEMINAR IN ASPECTS OF DESIGN (3) LEC. 3. Pr. ARCH 2020. Study of aspects of architectural design, such as form, space, style, meaning, perception, culture. Descriptions of specific seminars available from the School of Architecture. Course may be repeated for a maximum of 9 credit hours.

ARCH 4010 STUDIO V (6) LEC. 2, LST. 10. Pr. ARCH 3010 or ARIA 3020 and BSCI 3440. The comprehensive design of buildings, building complexes, and spaces in an urban context. Lectures emphasize urban issues, research methods. Programming and analysis will parallel studio projects of increasing complexity.
ARCH 4020 STUDIO VI (6) LEC. 2, AAB/LST. 10. Pr. ARCH 4010 or ARIA 4020. The design of buildings, building complexes, and spaces with emphasis on the integration of building systems and tectonic development.

ARCH 4110 HISTORY OF URBAN ARCHITECTURE (3) LEC. 3. Pr. ARCH 2110 or ARCH 2117 and ARCH 3110. The course surveys the history of the physical and formal manifestations of the urban environment from its inception to our days.

ARCH 4320 MATERIALS AND METHODS OF CONSTRUCTION II (3) LEC. 3. Pr. ARCH 3320. Properties and potential design applications of materials used in contemporary construction, with an emphasis on steel and concrete, roofing, glass and glazing, cladding, and interior finishes.

ARCH 4500 PROFESSIONAL PRACTICE (3) LEC. 3. Pr. ARCH 3020 or ARIA 3020. Architects’ legal responsibilities, frameworks of professional practice, office organization, business planning, marketing, project delivery, internship and professional ethics and leadership.

ARCH 4900 DIRECTED STUDIES (1-6) AAB. Development of an area of special interest through independent study. Evaluation of the work may be by faculty jury. School approval. Course may be repeated for a maximum of 6 credit hours.

ARCH 4910 RURAL STUDIO COMPLETION (0) LEC. Completion of construction project for ARCH 4120 Elective Studio. This studio is based in the School’s remote facilities in Newbern, AL.

ARCH 4960 SPECIAL PROBLEMS (1-6) LEC. Special problems Course may be repeated for a maximum of 6 credit hours.

ARCH 4997 HONORS THESIS (1-6) LEC. Pr. Honors College. Departmental approval. Course may be repeated for a maximum of 6 credit hours.


ARCH 5020 THESIS STUDIO (6) LEC. 6, AAB/LST. 13. Pr. ARCH 5010 and ARCH 5990. Exploration and development of an architectural project under the direction of a faculty member.

ARCH 5100 TEACHING METHODS (1) LEC. 1.

ARCH 5240 BEING THERE (1) LEC. 1. Course may be repeated for a maximum of 2 credit hours.

ARCH 5340 METHODS IN COMMUNITY BASED LEARNING (3) LEC. 3.

ARCH 5990 INTRODUCTION TO THESIS RESEARCH (2) LEC. 2. The tools, techniques, and strategies required to select, develop, refine, write, and present a thesis argument.

ARCH 5991 THESIS RESEARCH (1) LEC. 1. Pr. ARCH 5990. Expansion on the individual thesis argument and research begun in ARCH 5990 in parallel with the development of their thesis design project in ARCH 5020.

ARCH 7010 FALL STUDIO (6) STU. 12. This is one of three design studios in which the aspects of community need, context, technical systems, and building materials are explored to develop a schematic, client-driven architectural proposal.

ARCH 7020 SPRING STUDIO (6) STU. 12. This is one of three design studios in which the aspects of community need, context, technical systems, and building materials are explored to develop a client-driven architectural proposal.

ARCH 7030 SUMMER STUDIO (6) STU. 12. This is one of three design studios in which the aspects of community need, context, technical systems, and building materials are explored to develop a client-driven architectural proposal.

ARCH 7110 SEMINAR IN COLLABORATIVE DESIGN METHODS AND PROCESS (3) SEM. 3. Introduction to the core theories of collaboration within interdisciplinary design and construction project teams and community-based client groups. Students develop an understanding of the fundamentals of collaborative process design, principles negotiation, communication across disciplines, and conflict resolution.

ARCH 7120 SEMINAR IN DESIGN TECTONICS (3) SEM. 3. Taught as a series of workshops, this course provides the disciplinary framework necessary to apply technical research methods when evaluating options and reconciling the implications of design development decisions across systems and scales.

ARCH 7130 SEMINAR IN PROJECT COMMUNICATIONS (3) SEM. 3. This course provides the disciplinary framework necessary to develop all project documentation required for project construction, delivery, record keeping, as well as future research and analysis.
ARCH 7210 EXECUTIVE ISSUES: DISCIPLINARY FRAMEWORK (3) SEM. 3. Taught as a series “overlay” lectures and workshops. Provides the disciplinary framework to apply case study research methods when evaluating options and reconciling the implications of schematic design decisions across systems/scales.

ARCH 7220 EXECUTIVE ISSUES: RESEARCH METHODS (3) SEM. 3. Taught as a series "overlay" lectures and workshops. Provides the disciplinary framework necessary to apply case study research methods when evaluating options and reconciling the implications of design development decisions across systems/scales.

Building Science Courses

BSCI 1100 INTRODUCTION TO CONSTRUCTION (3) LEC. 3. Introduction to construction industry and education, current issues, and career opportunities.

BSCI 2200 CONSTRUCTION DOCUMENTS (3) LEC. 2. LAB. 3. Pr. BSCI 2300. Reading and interpreting working drawings, specifications, shop drawings, and digital 3D models for use in estimating and administering various types of construction projects.

BSCI 2300 CONSTRUCTION METHODS AND MATERIALS (3) LEC. 3. Materials, methods and construction equipment used in the construction of buildings.

BSCI 2400 STRUCTURES OF BUILDINGS I (3) LEC. 3. Pr. (PHYS 1500 or PHYS 1600) and (MATH 1610 or MATH 1150). Principles of mechanics and materials behavior related to building structures. Includes force systems, frame analysis, gravity load tracing, wind and seismic resistance for concrete and steel buildings.

BSCI 3200 CONSTRUCTION COMMUNICATION (3) LEC. 3. Overview of communication skills and tools required to succeed as a construction manager. Oral communication, written communication, ethics, visual literacy, and video capture in the context of construction risk management.

BSCI 3300 FIELD SURVEYING (2) LEC. 1. LAB. 6. Surveying techniques, construction layout, use of equipment, and dimensional controls for buildings. Surveying camp, a concentrated, 10 working day course held during breaks.

BSCI 3400 STRUCTURES FOR ARCHITECTS II (3) LEC. 3. Pr. BSCI 2400. Primary and secondary member design, connection design, temporary bracing/shoring, and steel shop drawing review.

BSCI 3440 STRUCTURES OF BUILDINGS II (3) LEC. 3. Pr. BSCI 2400. Principles of static equilibrium and materials behavior related to building structures. Includes force systems, frame analysis, section properties, stress, basic design of structural elements in buildings.

BSCI 3450 STRUCTURES FOR ARCHITECTS III (3) LEC. 3. Pr. BSCI 3400. Introduction to the design of reinforced concrete and related formwork including beams, columns, slabs, footings, retaining walls, and pre-stressed members.

BSCI 3500 CONSTRUCTION AND INFORMATION TECHNOLOGY I (3) LEC. 2. LAB. 2. To explore, discover and create applications of information communication technology (ICT) for Construction Processes.

BSCI 3600 ESTIMATING AND COSTING (4) LEC. 3. LAB. 3. BSCI Major. Introduction to construction estimating for CSI Divisions 1-33. Students perform quantity take-of (QTO), pricing, and preparation for a commercial construction project using computer-based techniques.

BSCI 3660 PRECONSTRUCTION AND PROJECT MANAGEMENT (4) LEC. 3. LAB. 2. Pr. BSCI 3600. Project(s) simulation as a context to discuss, negotiated procurement, pre-construction services in the alternative delivery environment and construction phase management procedures.

BSCI 3700 CONSTRUCTION SAFETY (3) LEC. 3. Construction safety, including OSHA guidelines, accident investigation, and the creating of construction safety plans and worker training program.

BSCI 3800 CONTRACTING BUSINESS (4) LEC. 4. Pr. BSCI 3600. Construction-specific look at the business functions associated with the industry; includes organizational structures, construction finance, risk analysis, construction contracts, project delivery, and associated documents with these functions.

BSCI 3910 EXPERIMENTAL LEARNING (3) LEC. 3. SU. Departmental approval. Requires daily log and employer certification.
BSCI 4200 RESIDENTIAL CONSTRUCTION (3) LEC. 3. Provides an overview of residential construction and development practices and professional issues including: local ordinances and codes, land use law, financing practices, architect-builder relationship, spec homes vs. custom homes, etc.

BSCI 4300 COMBINED ESTIMATING AND SCHEDULING FOR DESIGNERS (3) LEC. 3. Provides an overview of estimating and project planning practices and techniques which relate to interactions between the architect and contractor. Includes: sources of project costs, conceptual estimating, value engineering, CPM scheduling, cost of acceleration and delays, change order, etc.

BSCI 4350 CONSTRUCTION PROJECT ANALYSIS (3) LEC. 3. Pr. BSCI 3660. Analysis of methods, materials and equipment used to construct projects. Methods used to assure the quality of construction projects.

BSCI 4360 CONSTRUCTION FIELD LAB (2) LAB. 4. Pr. BSCI 3700 and BSCI 3660. Students conduct a service learning project to integrate all components of the construction process.

BSCI 4410 PROBLEMS IN CONSTRUCTION MEANS AND METHODS (3) LEC. 2. LAB. 2. Pr. BSCI 3660. Solving challenging problems encountered in construction processes, including form work, scaffolding, framing, steel erection, rigging, lifting, safety, and site management.

BSCI 4420 MANAGEMENT FOR CONSTRUCTION SUPERINTENDENTS (3) LEC. 1. LAB. 4. Pr. BSCI 3660. Senior Standing in Building Science. Development of expanded management strategies for construction superintendents including field conditions analysis, direction of tradesmen, communication skills, and project hoisting and equipment.

BSCI 4500 INFORMATION AND COMMUNICATION TECHNOLOGY FOR CONSTRUCTION II (3) LEC. 2. LAB. 2. To recognize, experiment and practice the applications of advanced information and communication technology (ICT) for Construction Processes.

BSCI 4610 SCHEDULING AND FIELD OPERATIONS (4) LEC. 4. Pr. BSCI 3660. The third of a sequence of three project controls classes (BSCI 3600 and BSCI 3660); an in-depth study of construction project sequencing and scheduling, job site cost control measures, construction cash flow analysis, and a variety of leadership and management issues associated with field operations.

BSCI 4700 MECHANICAL SYSTEMS IN BUILDINGS (3) LEC. 2. LAB. 2. Pr. BSCI 3500 and BSCI 3600. Overview of the plumbing and mechanical systems of buildings. Basic design, sustainability concepts, systems, installation and testing are covered.

BSCI 4710 MECHANICAL CONSTRUCTION ESTIMATING AND MANAGEMENT (3) LEC. 2. LAB. 2. Pr. BSCI 4700. Advance study of mechanical construction industry. Study and application of design principles, estimating and management techniques used in the industry.

BSCI 4750 ELECTRICAL SYSTEMS IN BUILDINGS (3) LEC. 2. LAB. 2. Pr. BSCI 3500. Electrical systems commonly used in buildings; basic theory and design concepts, with emphasis on lighting and electrical distribution equipment and its installation.

BSCI 4850 CONSTRUCTION LAW AND RISK MANAGEMENT (3) LEC. 3. Pr. BSCI 3660. Construction law, business law and risk management; the legal system and terminology, contracts, insurance, warranties, liens, environmental concerns, workplace issues, damages, and dispute resolution.

BSCI 4860 ADVANCED CONSTRUCTION INFORMATION TECHNOLOGY (3) LEC. 2. LAB. 2. Pr. BSCI 3660. Exploration and creation of advanced applications of Information and Communication Technology (ICT) for planning, decision making, projects monitoring, and controls.

BSCI 4870 CONSTRUCTION HISTORY (3) LEC. 3. Survey of historic construction projects to analyze how and why buildings and structures were constructed in the way they were.

BSCI 4880 CONSTRUCTION EQUIPMENT MANAGEMENT (3) LEC. 3. Pr. BSCI 3660. Construction equipment management and ownership. Equipment acquisition and disposition options, production costs and productivity, cost analysis and control, management staffing and responsibilities.

BSCI 4890 LEAN CONSTRUCTION PRINCIPLES AND PRACTICES (3) LEC. 3. Pr. BSCI 3660. This course provides an understanding of lean construction principles involving lean design, assembly, supply, production and work processes.

BSCI 4960 SPECIAL PROBLEMS (1-5) IND. Special problems in construction topics. Course may be repeated for a maximum of 5 credit hours.

BSCI 4990 BUILDING SCIENCE THESIS (4) LAB. 12. Individual project demonstrating mastery of curriculum content through the application of skills/knowledge to a theoretical construction company and project. Requires a written thesis and oral defense of work.
BSCI 5450 BUILDING GREAT STRUCTURES (3) LEC. 3. Departmental approval. Conceptual Analysis of a variety of structural systems using observation and modeling of the world’s greatest structures. Emphasis on construction innovations necessary to build these structures. May count either BSCI 5450 or BSCI 6450.

BSCI 5460 PLANNING AND DECISION MAKING IN CONSTRUCTION (3) LEC. 3. Pr. BSCI 3660. Applications of quantitative methods in various phases of project life cycle to assist project stakeholders in making effective planning and informed decision making. Departmental approval. May count either BSCI 5460 or BSCI 6460.

BSCI 5470 SMALL UNMANNED AIRCRAFT SYSTEMS IN CONSTRUCTION (3) LEC. 45. Departmental consent. Overview of FAA requirements including hands on training with small unmanned aerial systems and associated software focused on applications in construction.

BSCI 5830 GLOBAL CONSTRUCTION MANAGEMENT (3) LEC. 3. This course will discuss global construction issues and related project management practices. Departmental approval. May count either BSCI 5830 or BSCI 6830.

BSCI 5840 MULTI-CULTURAL ISSUES IN CONSTRUCTION (3) LEC. 3.

BSCI 5960 SPECIAL PROBLEMS (1-5) AAB. Departmental approval. Special problems in construction topics. Offered only at the discretion of the department head. Course may be repeated for a maximum of 5 credit hours.

BSCI 5970 SPECIAL TOPICS IN CONSTRUCTION (1-3) AAB. 1-3. Departmental approval. Special topics in construction focuses on topics in Building Science that are in addition to the regular curriculum. Offered only at the discretion of the department head. Course may be repeated for a maximum of 6 credit hours.

BSCI 6450 BUILDING GREAT STRUCTURES (3) LEC. 3. Conceptual Analysis of a variety of structural systems using observation and modeling of the world’s greatest structures. Emphasis on construction innovations necessary to build these structures. May count either BSCI 5450 or BSCI 6450.

BSCI 6460/6466 PLANNING AND DECISION MAKING IN CONSTRUCTION (3) LEC. 3. Applications of quantitative methods in various phases of project life cycle to assist project stakeholders in making effective planning and informed decision making. Departmental approval. May count either BSCI 5460 or BSCI 6460.

BSCI 6470 SMALL UNMANNED AIRCRAFT SYSTEMS IN CONSTRUCTION (3) LEC. 3. Overview of FAA requirements including hands on training with small unmanned aerial systems and associated software focused on applications in construction.

BSCI 6830 GLOBAL CONSTRUCTION MANAGEMENT (3) LEC. 3. This course will discuss global construction issues and related project management practices. Departmental approval. May count either BSCI 5830 or BSCI 6830.

BSCI 6840 MULTI-CULTURAL ISSUES IN CONSTRUCTION LABOR (3) LEC. 3.

BSCI 6960 SPECIAL PROBLEMS IN CONSTRUCTION (1-5) AAB. Departmental approval. Individually proposed problems or projects related to the construction industry. Students must prepare a written proposal with defined deliverables. Course may be repeated for a maximum of 5 credit hours.

BSCI 6970 SPECIAL TOPICS IN CONSTRUCTION (1-3) AAB. 1-3. Departmental approval. Special topics in construction focuses on topics in Building Science that are in addition to the regular curriculum. Course may be repeated for a maximum of 3 credit hours.

BSCI 7010 CONSTRUCTION LABOR AND PRODUCTIVITY (3) LEC. 3. Departmental approval. Construction labor issues, productivity measurement, and productivity improvement in the construction industry. Includes reading, research, and an out of class project.

BSCI 7020/7026 INTEGRATED BUILDING PROCESSES I (3) LEC. 3. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner’s perspective, the financial parameters, and the speculative demand driving project viability.

BSCI 7030/7036 CONSTRUCTION INFORMATION MANAGEMENT (3) LEC. 3. Applications of advanced information technology in construction.

BSCI 7040/7046 INTEGRATED BUILDING PROCESSES II (3) LEC. 3. Departmental approval. Construction project delivery, from pre-construction service through ownership. Topics include project management, pre-construction services, pre-planning, procurement, site utilization, subcontracts, commissioning, closeout, building operation, and long-term ownership.
BSCI 7050/7056 EXECUTIVE ISSUES IN CONSTRUCTION (3) LEC. 3. Construction industry executives will present 6 to 10 topics that represent a cross-section of significant management issues.

BSCI 7060 RESEARCH METHODS IN BUILDING SCIENCE (3) LEC. 3. A study of the academic research process, with an emphasis on defining research problems in construction and the development of a research proposal.

BSCI 7100/7106 GRADUATE ELECTIVE IN PROJECT MANAGEMENT: PROJECT MANAGEMENT AND SCHEDULING (3) LEC. 3. This course develops advanced student knowledge and skills in construction business facets such as delivery, contracts and financial management; and develops tactile skills in producing advanced construction schedules in current software applications. Credit will not be given for both BSCI 7100 and BSCI 7106. Course may be repeated with change in topics.


BSCI 7126 CONSTRUCTION LAW AND RISK MANAGEMENT (3) LEC. 3. Construction law, business law and risk management; the legal system and terminology, contracts, insurance, warranties, liens, environmental concerns, workplace issues, damages and dispute resolution. Admission to Certificate in Construction Management.


BSCI 7156 HEAVY CIVIL CONSTRUCTION (3) LEC. 3. Students must be admitted to the Executive Integrated Processes Certificate in Construction Management. Principles of heavy civil construction including budget, planning, excavation, haul, equipment, temporary structures and types of projects involved.

BSCI 7200 ELECTIVES IN CONSTRUCTION LABOR (3) LEC. 3. Departmental approval. Special course offerings related to construction labor topics. Course may be repeated with change in topic.

BSCI 7300 ELECTIVES IN INFORMATION TECHNOLOGY AND INNOVATION (3) LEC. 3. Departmental approval. Special course offerings related to information technology, innovation, and robotics in construction. Course may be repeated with change in topic.

BSCI 7900 DIRECTED READING IN CONST (1-3) IND. Departmental approval. Individually proposed exploration of a construction industry related topic not covered in existing course offerings. Students must prepare a written proposal of the topic. Course may be repeated for a maximum of 3 credit hours.

BSCI 7950 GRADUATE SEMINAR (1) SEM. 1. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner's perspective, the financial parameters, and the speculative demand driving project viability. Course may be repeated for a maximum of 3 credit hours.

BSCI 7980/7986 CAPSTONE PROJECT (3) LAB. 6. Departmental approval. Independent exploration of an approved topic with final written report of findings and an oral defense of the work. Specific capstone project requirements are established by the supervising committee and vary based on the chosen topic.

BSCI 8060 ADVANCED RESEARCH METHODS IN BUILDING SCIENCE-I (3) LEC. 3. Current areas and topics of research in building construction, study of academic research process, defining a research problem, develop effective search and analytical evaluation skills of published literature, analyze research products and write a comprehensive review of literature, and understand ethical principles and methods to successfully carry out research projects. The course is designed to provide a comprehensive introduction to the doctoral research process and methods used in building construction research.

BSCI 8070 ADVANCED RESEARCH METHODS IN BUILDING SCIENCE-II (3) LEC. 3. A study of the practical skills necessary to produce and disseminate doctoral level research in Building Construction. The course is designed to provide comprehensive knowledge about research design and selecting an appropriate methodology, qualitative, quantitative and mixed data collection and analysis methods appropriate for Building Construction research, research validation techniques, and technical writing strategies appropriate for a PhD dissertation.
BSCI 8950 DISSERTATION SEMINAR (1) LEC. 1. Professional and social integration into doctoral program; enhancement of professional knowledge through structured inquiry, professional dialogue, and reflective thinking; and preparation of students to develop pedagogical skills. Departmental Permission Required. Course may be repeated for a maximum of 6 credit hours.

BSCI 8990 RESEARCH AND DISSERTATION (1-10) LEC. 1-10, DSR. 0. Individual doctoral dissertation research. May be repeated for credit. Course may be repeated with change in topics.

Environmental Design Courses

ENVD 2000 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES I (3) LEC. 3. Pr. ARCH 1000 or INDD 1120 or BSCI 1100. Or ENVD major. Core knowledge of design and construction disciplines and business practices related to human-designed environments. Includes national and global perspectives and focus on interdisciplinary studies.

ENVD 2007 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES I (3) LEC. 3. Pr. ARCH 1000 or INDD 1120 or BSCI 1100. Or ENVD major. Core knowledge of design and construction disciplines and business practices related to human-designed environments. Includes national and global perspectives and focus on interdisciplinary studies.

ENVD 2010 INTRODUCTION TO DESIGN AND DESIGN METHODS (3) LEC. 3. Introduces students to the importance of design and basic design methods.

ENVD 2040 DESIGN, INVENTION AND SOCIETY (3) LEC. 3. Role of design and invention in society from the ancient to the contemporary world.


ENVD 2200 READINGS IN LANDSCAPE ARCHITECTURE (3) SEM. 3. Investigates the idea of landscape through a range of texts, images, and built works that have helped form, and continue to shape, our understanding of the landscape. First year of B.ENVD.

ENVD 3000 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES II (3) LEC. 3. Pr. ENVD 2100. Departmental approval. Advanced knowledge of design, construction and planning disciplines and practice. National/global environmental design issues, focus on interdisciplinary concepts, hybrid practices, & sustainability.

ENVD 3100 CIVIC ENGAGEMENT AND RESEARCH METHODS (3) LEC. 3. Pr. ENVD 3000. Departmental approval. Civic engagement and research methods for environmental design. This is a research prep course to develop research methods, projects, and community partnerships for summer ENVD 4100 workshop capstone.

ENVD 3200 SYSTEMS IN BUILT ENVIRONMENT I (3) SEM. 2.5. Pr. ENVD 2100. Focus on research of different systems in built environments, and different research methods that can be used in design in order to understand and represent them.

ENVD 3300 SYSTEMS IN BUILT ENVIRONMENT II (3) SEM. 2.5. Pr. ENVD 2100. Focuses on application of research from design and construction disciplines in built environment through testing and prototyping, thus exploring potential for application in a larger context.

ENVD 4000 ELEMENTS OF URBAN DESIGN (3) LEC. 3. Pr. ENVD 2100. ENVD 4000 provides environmental design students with an introduction to urban design theories, methods and processes through combination of lectures and hands-on instruction.

ENVD 4010 ELEMENTS OF DESIGN THINKING AND COMMUNICATION (3) LEC. 3. This is a 3-credit hour class that builds design communication skills through a series of projects that utilize both hand-rendering and digital media.

ENVD 4017 ELEMENTS OF DESIGN THINKING AND COMMUNICATION (3) LEC. 3. This is a 3-credit hour class that builds design communication skills through a series of projects that utilize both hand-rendering and digital media.

ENVD 4100 ENVIRONMENTAL DESIGN WORKSHOP II - CAPSTONE (6) LEC. 6. Pr. ENVD 3100. Environmental design knowledge & technical skill set using principles of collaboration, leadership & effectiveness training, hands-on experience, civic engagement & design communication skills.

ENVD 4500 PROFESSIONAL PRACTICE (3) SEM. 3. Pr. ENVD 3000. Enable students to learn elements of professional communication; create persuasive portfolio of their work; and to seek, and prepare for, internship and job opportunities.
ENVD 4900 DIRECTED STUDIES (3) IND. 3. Pr. ENVD 2100. Highly focused study (design research, design research application) in an area of interest to student that is approved by, and supervised by, a faculty member with such expertise. Must be in Junior or Senior status. Course may be repeated for a maximum of 6 credit hours.

ENVD 4920 INTERNSHIP IN ENVIRONMENTAL DESIGN (1) INT. 1. SU. Faculty Approval. Internship in the areas of environmental design, as approved by faculty supervisor.

ENVD 4970 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN (3) LEC. 3, AAB. 0. Topics include: digital production, portfolio making and design thinking. Course may be repeated for a maximum of 9 credit hours.

ENVD 4977 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN (3) LEC. 3. Topics include: digital production, portfolio making and design thinking. Course may be repeated for a maximum of 9 credit hours.

ENVD 5030 STUDIES IN DESIGN THINKING AND ENTREPRENEURSHIP (3) SEM. 3. Study and application of design and innovation thinking in entrepreneurship, with a special emphasis on social entrepreneurship. May count either ENVD 5030 or ENVD 6030.

ENVD 5037 STUDIES IN DESIGN THINKING AND ENTREPRENEURSHIP (3) LEC. 3. Study and application of design and innovation thinking in entrepreneurship, with a special emphasis on social entrepreneurship. May count either ENVD 5030 or ENVD 6030.

**Graphic Design Courses**

GDES 1110 FOUNDATION DRAWING (4) STU. 8. Coreq. GDES 1210. PGDE majors only; school approval. Representational drawing with various media. Emphasis on accurate observation, pictorial organization, depiction of space as well as on concept development and creativity.

GDES 1210 FOUNDATION DESIGN I (4) LEC. 1, STU. 6. Coreq. GDES 1110. PGDE majors only; school approval. Elements and principles of basic two-dimensional design. Emphasis on composition, color theory, and craftsmanship.

GDES 1220 FOUNDATION DESIGN II (4) LEC. 1, STU. 6. Pr. GDES 1210. Elements and principles of design with emphasis on basic three dimensional design. Emphasis on spatial organization, color, and media exploration, planning and craft.


GDES 2220 TYPOGRAPHICS I (4) LEC. 1, STU. 6. Pr. GDES 1110 and GDES 1220 and (ARTS 2100 and ARTS 2150). Coreq. GDES 2210. Historical development and practical applications of typography for design, layout, and other contemporary formats. School approval.

GDES 2230 INTRODUCTION TO GRAPHIC DESIGN (4) STU. 8. Pr. GDES 2210 and GDES 2220. Design, layout, and image-making procedures for creative problem-solving in graphic design, with emphasis on presentation, creativity, and visualization. School approval. Portfolio review required.

GDES 3110 ELEMENTS & PRINCIPLES OF DESIGN I: FORM AND COMPOSITION (3) LEC. 3. Pr. INDD 1120. This course will expose students to a variety of design methods, and their applicability to non-design disciplines, highlighting the parallel between critical thinking and design thinking.

GDES 3120 ELEMENTS & PRINCIPLES OF DESIGN II: TYPOGRAPHY AND IMAGE (3) LEC. 3. Pr. INDD 1120. This course will teach the basic concepts and vocabulary of typography with an emphasis on the expressive potential of typography when combined with imagery in layout form.

GDES 3130 GRAPHIC DESIGN LITERACY: MESSAGE, CONTEXT, MEANING (3) LEC. 3. Pr. INDD 1120. This course is a seminar that prepares students to participate actively and confidently in conversations about visual communications. Students investigate the historical bases of graphic design as well as examine contemporary issues informing the practice of graphic design. Seminar members read and discuss case studies and design criticism, and apply analytical approaches to examples of contemporary design through oral presentations and written arguments.

GDES 3140 DESIGN THINKING: INTRODUCTION TO DIGITAL SCREEN MEDIA (3) LEC. 3. Application of design thinking (focus on experience of the user) in the context of screen-based (computers, web applications, phones) design. Projects may include the redesign of an existing website, design concept for a new mobile application, and a new video game concept.
GDES 3210 PHOTO DESIGN (4) STU. 8. Pr. GDES 2210 and GDES 2220. Traditional black and white film photography that covers technical aspects of the 35mm camera and film and basic darkroom procedures for black and white film and an awareness of the aesthetics and semantics associated with photographic imagery.

GDES 3220 PHOTO COMMUNICATIONS (4) STU. 8. Photography as applied communication such as advertising, editorial photography, and annual report photography. Emphasis on advanced technological and studio techniques.

GDES 3230 LETTERPRESS IMAGING (4) LEC. 1, LST. 3. Pr. GDES 2230. Experimental imaging using letterpress equipment to develop new techniques appropriate to today's communications industry. Emphasis on individual creativity, experimentation and initiative.


GDES 3250 TYPOGRAPHICS II (4) STU. 8. Pr. GDES 2230. Experimental application of typography for design and layout, exploring contemporary techniques. Historical understanding expected. Emphasis on presentation and visualization of concepts.

GDES 3260 KINETIC TYPOGRAPHY (4) LEC. 4. Pr. GDES 2230. Focuses on how motion affects meaning and how new meaning can be developed through time, space, and sound.

GDES 3710 GRAPHIC DESIGN HISTORY (4) LEC. 4. Pr. GDES 2230. Coreq. GDES 3240. History of graphic design, with emphasis on social and cultural contexts, symbolic application, formal characteristics, and significant movements.

GDES 3910 GRAPHIC DESIGN INTERNSHIP PRACTICUM (2) LEC. 2. Pr. GDES 2210 and GDES 2220. Acceptance into the GDES program. Focuses on the professional practices of Graphic Design through portfolio creation and presentation, resume and cover letter writing and the tactics of searching for an internship.

GDES 4240 GRAPHIC DESIGN I (4) STU. 8. Pr. GDES 3710. Application of communicative procedures and skills necessary to convey messages by means of graphic presentation: problem solving in corporate identity, advertising design, self promotion, etc. Development of student's individual style.

GDES 4250 GRAPHIC DESIGN II (4) STU. 8. Pr. GDES 4240. Development of individual style in communication via graphic graphic presentation, with emphasis on problem-solving in publication design, self-promotion, large-format design, and layout.

GDES 4260 MAGAZINE DESIGN (4) STU. 8. Pr. GDES 2230. Concepts of graphic design are explored; specifically an understanding of grid, message-making and qualities of design in the magazine format.

GDES 4270 ADVANCED INTERACTIVE MEDIA (4) STU. 8. Pr. GDES 3240. Focuses on the principles and methodologies used throughout the interactive design industry for creating screen-based dynamic media. Students develop a conceptual framework for real world applications, exploring industrial, social and cultural issues.

GDES 4640 IMAGE I (4) STU. 8. Pr. GDES 2230. Application of illustration techniques and concepts to various graphic formats. Development of personal skills and individual style.

GDES 4650 IMAGE III (4) STU. 8. Pr. GDES 2230. Exploration of two dimensional and three dimensional imaging techniques and concepts. Development of personal skills and an individual style.

GDES 4900 DIRECTED STUDIES FOR GRAPHIC DESIGN (2-3) AAB. Pr. GDES 2210 and GDES 2220. Directed Studies in Graphic Design focuses on individualized study in Graphic Design. Student must have a 3.0 average in GDES course curriculum and departmental approval. Topics may include Graphic Design, Imaging, Web Design. Course may be repeated for a maximum of 9 credit hours.

GDES 4970 SPECIAL TOPICS FOR GRAPHIC DESIGN (4) LEC. 1, LST/ST1. 6. Pr. GDES 2230 and GDES 3710. Special Topics in Graphic Design focuses on topics in graphic design that are additional to the regular curriculum. Specific course topics are developed by the instructor. Student must have a 3.0 average in GDES GDES course curriculum. Course may be repeated for a maximum of 12 credit hours.
GDES 4990 SENIOR PROJECT FOR GRAPHIC DES (5) STU. 10. Pr. GDES 4250. Coreq. GDES 4991. A directed terminal studio project with choice of subject and medium. Project will be exhibited and a faculty committee will award a letter grade. Must be taken in student’s final semester.

GDES 4991 RESEARCH, WRITING AND PRESENTATION (1) LEC. 1. Pr. GDES 4250. Coreq. GDES 4990. Addresses research, writing and presentation requirement associated with the student’s terminal studio project. Must be taken in student’s final semester.

Industrial Design Courses

INDD 1120 INDUSTRIAL DESIGN IN MODERN SOCIETY (3) LEC. 3. Survey of design and its impact upon modern society. Review of methods, products, marketing, patents, education, and career opportunities.

INDD 1310 SYNTHESIS OF DRAWING (10) LEC. 3, LST. 12. Developing mechanical and production design drawings, with in-depth study of perspective systems. Product design communication with emphasis on drawing, development, and presentation.

INDD 1320 PROTOTYPE FABRICATION (3) LEC. 2. LAB. 2. Coreq. INDD 1310. Fabrication of three-dimensional models utilizing various materials and machineries. Includes model making, creative modeling, study models, presentation models, mock-ups and prototypes.

INDD 1400 CAREERS IN INDUSTRIAL DESIGN (2) LEC. 2. Survey of careers in the field of industrial design demonstrated through case studies, product examples and biographies.

INDD 2110 TWO DIMENSIONAL INDUSTRIAL DESIGN PRINCIPLES (6) LEC. 2, LST. 10. Transference of abstract principles of design to fabrication of simple tools. Emphasis on expression of functional objects.

INDD 2120 COMPUTER AND DESIGN COMMUNICATIONS (3) LEC. 2. LAB. 2. Alternative modes of communicating design ideas via computer. Executing design ideas for two-dimensional design fundamentals and mechanical design drawings.

INDD 2130 PRESENTATION RENDERING (3) LEC. 2. LAB. 2. Concept development using drawing and rendering skills with different media for ideas communication and presentation.

INDD 2210 THREE DIMENSIONAL INDUSTRIAL DESIGN PRINCIPLES (6) LEC. 2, AAB/LST. 10. Pr. INDD 2110. Analysis of design fundamentals through three dimensional form. Analyzing function, utility, convenience, safety, maintenance and sustainable design.

INDD 2220 ANTHROPOMETRY (3) LEC. 3. Pr. INDD 2110. Body measurements, movements and human capacity in relation to design with introduction to ergonomy and human physiology as it relates to design. School approval.

INDD 2230 HISTORY OF INDUSTRIAL DESIGN (3) LEC. 3. Pr. INDD 2110. Survey humankind’s production of artifacts, from prehistory to present. Emphasis on ideas that mass produced artifacts mirror history and everyday culture.

INDD 3110 EXHIBIT AND PACKAGING (6) LEC. 1, LST. 8. Pr. INDD 2210. Display systems using models, concepts development, rendering, packaging, identity programs and professional presentations.


INDD 3130 BASIC PHOTOGRAPHY FOR INDUSTRIAL DESIGN (3) LEC. 2. LAB. 2. Pr. INDD 2210. Photography in design and art environments. Techniques of developing, printing and enlarging. Lighting techniques for portfolio photography, including lighting, studio photography, composition.

INDD 3150 DESIGN THINKING: INTRODUCTION TO PRODUCT SOLUTIONS (3) LEC. 2. LAB. 1. Application of design thinking (focus on experience of the user) in the context of product design. Students will deconstruct a design of an existing product and create a design concept for a new product. Introduces innovation in physical products and services through collaborative and creative approaches to critical and strategic thinking with focus on the user. Course may be repeated for a maximum of 6 credit hours.

INDD 3210 PRODUCT DESIGN (6) LEC. 2, LST. 10. Pr. INDD 3110. Product design utilizing design methodology from proposal to working pre-prototype, including planning, research, development, model-making, manufacturing and documentation.

INDD 3220 MATERIALS AND TECHNOLOGY (3) LEC. 3. Pr. INDD 3120. Characteristics and utility of materials such as plastic, metal, and ceramics in manufacture and the study of machine/tool processes used by industry.
INDD 3230 ADVANCED COMPUTER AIDED DESIGN (3) LEC. 2. LAB. 2. Pr. INDD 2120. Introduction to CAD software emphasizing three-dimensional modeling. Students will learn drawing functions. Concepts of three-dimensional relationship of objects discussed.

INDD 4110 ADVANCED PRODUCT DESIGN (6) LEC. 2, AAB/LST. 10. Pr. INDD 3120 and INDD 3210. Design or redesign of products and systems of advanced complexity.

INDD 4120 ADVANCED COMPUTER AIDED DESIGN II (3) LEC. 3. Pr. INDD 3230. This course builds on concepts learned in INDD 3230, with emphasis on form creation, modeling and troubleshooting and the use of digital techniques to produce three-dimensional models.

INDD 4210 INDUSTRIAL DESIGN THESIS (6) LEC. 2, AAB/LST. 10. Pr. INDD 4110. Product design projects involving all design phases; including planning, research, development, finalization, specification, and documentation.

INDD 4220 PROFESSIONAL PRACTICE (3) LEC. 3. Pr. INDD 3110 and INDD 3210. Business aspects of industrial design, including property, design contract, letters of agreement, business planning and design marketing.

INDD 4907 HONORS READING (1-3) LEC. Course may be repeated for a maximum of 3 credit hours.

INDD 4997 HONORS THESIS (1-3) LEC. Pr. Honors College. Departmental approval. Course may be repeated for a maximum of 3 credit hours.

INDD 5010 HISTORY OF INDUSTRIAL DESIGN II (3) LEC. 3. A survey of humankind's production of artifacts, from prehistory to contemporary times, with an emphasis on the idea that mass produced artifacts mirror the meanings of historical events and everyday culture.

INDD 5030 CASE STUDIES IN DESIGN (3) LEC. 3. Design projects undertaken by industry studied by examination of artifacts and records, and by class discussion. Focus on the socio-cultural relevancy of the artifacts.

INDD 5120 PROFESSIONAL PORTFOLIO (3) LEC. 3. Pr. INDD 3110 and INDD 3210. Design and development of a portfolio and promotional material presenting the student's work to entry-level professional standards.

INDD 5960 SPECIAL PROBLEMS (1-5) AAB. Development of individual projects. Research, design and reports on approved topics. Course may be repeated for a maximum of 15 credit hours.

INDD 6010 HISTORY OF INDUSTRIAL DESIGN II (3) LEC. 3. A survey of humankind's production of artifacts, from prehistory to contemporary times, with an emphasis on the idea that mass produced artifacts mirror the meanings of historical events and everyday culture.

INDD 6030 CASE STUDIES IN DESIGN (3) LEC. 3. Design projects undertaken by industry studied by examination of artifacts and records, and by class discussions. Focus on the socio-cultural relevancy of the artifacts.

INDD 6120 PORTFOLIO (3) LEC. 3. Preparation of professional portfolio for graduation and employment.

INDD 6960 SPECIAL PROBLEMS (1-5) AAB. Development of individual projects. Research, design and reports on approved topics. Course may be repeated for a maximum of 15 credit hours.

INDD 7010 DESIGN ORIENTATION (3) LEC. 3. Introduction to the Industrial Design graduate program: degree options, study directions, research methods, and areas. Students are required to develop a research/project proposal.

INDD 7020 COMPUTER/INDUSTRIAL DESIGN (3) LEC. 3. Synthesizing studies in research, analysis, and application based on interdisciplinary concept. Emphasis on the relation of products and systems to those who use them.

INDD 7610 PRINCIPLES OF INDUSTRIAL DESIGN (3) LEC. 3. Detailed study of the communication principles of form qualities with emphasis of these aesthetic principles to the technical and human factors of artifacts.

INDD 7620 DESIGN MANAGEMENT (3) LEC. 3. Detailed study of the industrial design project management and development with emphasis on the interrelational management concepts of research, product planning, production and marketing.

INDD 7630 HUMAN FACTORS IN DESIGN (3) LEC. 3. Theoretical and empirical examination of human factors (Anthropometrics, Biotechnology, Engineering Psychology, Behavioral Cybermetrics, Ergonomics) as applied to man-machine environmental systems.

INDD 7640 AESTHETICS IN DESIGN (3) LEC. 3. Aesthetics in the context of the designed environment encompassing: non-verbal communication; object language semiotics; gestalt and perception systems; information aesthetics, and consumer product safety.
INDD 7650 DESIGN THEORIES (3) LEC. 3. Examination of design theories and philosophies related to technical artifacts in man-machine systems. Comparative studies of unifying theories in art, science, design, technology and the humanities.

INDD 7660 INDUSTRIAL DESIGN METHODOLOGY (3) LEC. 3. Industrial design methodologies and specific methods employed in research, analysis, synthesis, and evaluation in comprehensive design problems.

INDD 7670 SYSTEMS DESIGN (3) LEC. 3. Systems approach and interdisciplinary team work to design problems inquires into details of sub-systems, components and parts, with emphasis on the relation of the performance of technical systems to optional human factor effects.

INDD 7910 INDUSTRY PRACTICUM (5) AAB/STU. 5. This course will demand the application of acquired skill to the resolution of product design based issues within an industry collaboration studio over the period of one semester.

INDD 7980 NON-THESIS DESIGN (3) STU. 3. Synthesizing studies in research, analysis and application based on interdisciplinary concept. Emphasis on the relation of products and systems to those who use them.

INDD 7990 DESIGN THESIS (1-5) AAB/RES. Credit to be arranged. Course may be repeated with a change in topic.

Interior Architecture Courses
ARIA 2150 ELEMENTS OF INTERIOR ARCH I (3) LEC. 3. The theory of design principles, aesthetics and concepts. Graphic drawings and models of interior spaces explored. Projects outside of class.

ARIA 2160 ELEMENTS OF INTERIOR ARCHITECTURE II (3) LEC. 3. The theory of design principles, aesthetics and concepts. Graphic drawings and models of interior spaces explored. Projects outside of class.


ARIA 4020 STUDIO 6A INTERIOR ARCHITECTURE (6) LEC. 2, LST. 10. Pr. ARCH 3020 and ARCH 3320 and (ARCH 2110 or ARCH 2117) and BSCI 3440. Parallels Architecture Studio 6, with emphasis on the development of interior architecture and spaces within an urban context. Consideration will be given to adaptive reuse.

ARIA 4030 INTERIOR ARCHITECTURE THESIS (6) LEC. 3, LST. 10. Pr. ARCH 4020. Coreq. ARIA 4080. Interior design project of the student's choice, under the direction of a faculty member.

ARIA 4080 INTERIOR ARCHITECTURE THESIS RESEARCH (2) LEC. 2. Pr. ARCH 4020. Research and writing of thesis documents, to include programming, site, and case studies.

ARIA 4450 INTERIOR ARCHITECTURE PROFESSIONAL PRACTICE (2) LEC. 2. Pr. ARCH 4020. Prepares student to enter professional office with an understanding of the skills, concepts and technical knowledge expected.

ARIA 4680 HISTORY AND THEORY OF INTERIOR ARCHITECTURE (3) LEC. 3. Pr. ARCH 4020. The theory and history of interior spaces, their social, material, and aesthetic development and their artifacts.

Landscape Architecture Courses
LAND 1110 STUDIO I (4) LEC. 3. LAB. 1. Foundation course introduces studio culture, principles and processes of visual design, and the tools and techniques of landscape architectural design.

LAND 1160 GRAPHIC STUDIES I (2) LEC. 1. LAB. 1. Coreq. LAND 1110. Focuses on basic tools and techniques for interpreting and representing landscapes: photography, field sketching, technical drawing, and mixed-media montage.

LAND 1210 STUDIO II (4) LEC. 3. LAB. 1. Pr. LAND 1110. Foundation course builds fundamental design process skills by exploring terrain and ecology through design exercises on small sites.

LAND 1260 GRAPHIC STUDIES II (2) LEC. 1. LAB. 1. Pr. LAND 1160. Introduces integrated analog-digital workflows. Focus on digital methods and tools: photomontage, diagramming, and presentation assembly; digital modeling, analysis, and rendering.

LAND 2110 PLANTS AND CONSTRUCTION WORKSHOP I (5) LEC. 4. LAB. 1. Pr. LAND 1210. Uses a field- and project-based approach to engage the medium of landscape architecture (plants, land, soils, and materials).
LAND 2120 FIELDWORK I (1) FLD. 1. Pr. LAND 1210. Coreq. LAND 2110. Advances program focus on landscape experience. Introduces techniques and tools for site reconnaissance: direct measurement, observation, evaluation, and synthesis.

LAND 2140 HISTORY, THEORY, AND PRACTICE I (3) LEC. 3. The historical development of American urban landscapes, theoretical concepts for understanding them, and survey of related landscape architectural practice.

LAND 2210 PLANTS AND CONSTRUCTION WORKSHOP II (5) LEC. 4. LAB. 1. Pr. LAND 2110. Focuses on landscape expression, experience, and cycles, including plant ephemerality, material assemblies, maintenance, performance, and choreography of landscape experience.

LAND 2220 FIELDWORK II (1) FLD. 1. Coreq. LAND 2210. Considers phenological and environmental cycles, expression of plants, materials, and atmospheres to strengthen relationships between design intention and physical expression.

LAND 2240 HISTORY, THEORY, AND PRACTICE II (3) LEC. 3. Pr. LAND 2140. Survey of the history of and theory for landscape architectural practice as it relates to contemporary American culture.

LAND 3110 STUDIO III (5) LEC. 4. LAB. 1. Pr. LAND 2220. Coreq. LAND 3110. Expand techniques and tools for site reconnaissance: multiple site visits to develop skills, deepen inventories, and contextualize design projects.

LAND 3120 FIELDWORK III (1) FLD. 1. Pr. LAND 2220. Coreq. LAND 3110. Expand techniques and tools for mapping large scale landscape systems. Develop documentation skills using aerial photogrammetry and advanced site visualization.

LAND 3160 DYNAMIC SYSTEMS I (3) LEC. 3. Pr. LAND 2240. Establishes ecological theories as a framework for analysis of urban conditions and as a tool for decision-making and design.

LAND 3210 STUDIO IV (5) LEC. 4. LAB. 1. Pr. LAND 3110. Junior studio focused on processes to support design at multiple scales for resilient landscapes that integrate aesthetics, program, and performance.

LAND 3220 FIELDWORK IV (1) FLD. 1. Pr. LAND 3120. Coreq. LAND 3210. Expand techniques and tools for mapping large scale landscape systems. Develop documentation skills using aerial photogrammetry and advanced site visualization.

LAND 4110 STUDIO V (5) LEC. 4. LST. 1. Pr. LAND 3210. Comprehensive studio synthesizes skills toward landscape activism and engagement in cultural contexts of urban, ex-urban, or rural sites and systems.

LAND 4120 FIELDWORK V (1) LEC. 0, FLD. 1. Pr. LAND 3220. Coreq. LAND 4110. Apply comprehensive site reconnaissance skills to gather landscape intelligence. Engage community representatives to contextualize studio work.

LAND 4210 STUDIO VI (5) LEC. 4, LST. 1. Pr. LAND 4110. Comprehensive studio helps students develop sophisticated design research. Students create new work and critically evaluate its theoretical context.

LAND 4220 FIELDWORK VI (1) FLD. 1. Coreq. LAND 4210. Use broad skills, techniques, and thinking about site reconnaissance to frame design projects. Gather and synthesize comprehensive landscape intelligence.

LAND 4240 PROFESSIONAL PRACTICE (3) LEC. 0, SEM. 3. Surveys development and ethics of the landscape architecture profession, businesses, and practices, to help students plot their futures.

LAND 5030 LANDSCAPE DESIGN METHODS (3) LEC. 9. Introduces students to skills, techniques, and ways of thinking fundamental to landscape architectural design, preparing students for future studio courses by emphasizing making, precision, experimentation, iteration, and judgment.

LAND 5040 LANDSCAPE ISSUES & PRACTICES (3) LEC. 9. Introduces students to both a selection of key issues relevant to contemporary landscape architecture and practices employed by landscape architects engaging in those issues.

LAND 5110 BASIC LANDSCAPE ARCHITECTURAL DESIGN (6) STU. 12. Landscape architectural design studio emphasizing research, planning and design problems at neighborhood to community scales.

LAND 5130 STUDIO I: FOUNDATION STUDIO (5) STU. 5. Teaches foundational skills (drawing, modeling, and multiple representational skills) that are necessary to progress into future design studios.

LAND 5131 FIELDWORK I (1) FLD. 1. Field studies and travel related to studio. May count either LAND 5131 or LAND 6131.
LAND 5140 HISTORY, THEORY, AND PRACTICE I: LANDSCAPE ARCHITECTURE AND CONTEMPORARY URBANISM (3) SEM. 3. The historical development of American urban landscapes, theoretical concepts for understanding them, and survey of related landscape architectural practice.

LAND 5150 CONSTRUCTION I: LANDFORM & HYDROLOGY (3) LEC. 3. Departmental approval. Fundamental skills needed to analyze, understand, and manipulate landform with respect to form, grading, drainage, and stormwater management.

LAND 5160 GRAPHIC STUDIES I (2-3) LEC. Focus on basic tools and techniques for interpreting and representing landscapes: photography, field sketching, technical drawing, and mixed-media montage. Introduction to vector and raster-based software and integrated analog-digital workflows. Course may be repeated for a maximum of 3 credit hours.

LAND 5210 URBAN HOUSING STUDIO (6) STU. 12. Spatial/formal qualities of multi-unit housing utilizing the wealth of housing typologies erected in North America.

LAND 5230 STUDIO II (5) STU. 5. Iterative design processes that project and test design scenarios, refining propositions based on multiple performance criteria in relation to site specificity and community context. Departmental approval. May count either LAND 5230 or 6230.

LAND 5231 FIELDWORK II (1) FLD. 1. Field studies and travel related to studio. Departmental approval. May count either LAND 5231 or LAND 6231.

LAND 5240 HISTORY, THEORY, AND PRACTICE II: LANDSCAPE ARCHITECTURE AND CONTEMPORARY CULTURE (3) LEC. 3. Survey of the history of and theory for landscape architectural practice as it relates to contemporary American culture.

LAND 5250 CONSTRUCTION II: MATERIALS & DETAILING (3) LEC. Departmental approval. Fundamentals of design detailing of site assemblies, with emphasis on material research and construction methods.

LAND 5260 GRAPHIC STUDIES III (3) SEM. 3. Pr. LAND 5150. Departmental approval. Fundamental concepts of Geographic Information Systems are used to create visual frameworks for gathering, interpreting, and sharing spatial data in landscape architecture practice.

LAND 5270 PLANT SPATIALITY (2) LEC. 2. Studies of innovative design with plants, exploring issues plant association, strata, and spatiality. Departmental approval. May count either LAND 5270 or 6270.

LAND 5280 LANDSCAPE ELEMENTS: EARTH, FIRE AND WATER (3) LEC. 3. Introduces students to the basic elements used in the design of the built landscape.

LAND 5290 GRAPHIC STUDIES II (3) LEC. 3. Focus on advanced digital methods and tools: mapping with GIS software; modeling, analysis, and rendering with Rhino and associated plugins; and photomontage, diagramming, and presentation assembly with Adobe software.

LAND 5310 INDEPENDENT STUDY THESIS (6) STU. 12. Departmental approval. Extensive exploration and development of a landscape architecture issue of the students choice beyond the level associated with entry to the profession. Level-III standing;

LAND 5330 STUDIO III (5) LEC. 5. Pr. (LAND 5230 or LAND 6230) or (P/C LAND 5331 or P/C LAND 6331). Departmental approval. Investigates eco-cultural relationships between regional, metropolitan and urban scales with emphasis on physical and social flows.

LAND 5331 FIELDWORK III (1) FLD. 1. SU. Pr. (LAND 6230 or LAND 5230) or (P/C LAND 5330 or P/C LAND 6330). Departmental approval. Field studies and travel related to studio.

LAND 5340 HISTORY, THEORY, AND PRACTICE III: PRE-MODERN LANDSCAPES (3) LEC. 3. Pr. LAND 5240. Departmental approval. Global history of landscape-making, particularly in relationship to urbanization and culture, from prehistory to the inception of modern landscape architecture.

LAND 5350 CONSTRUCTION III: HYDROLOGIES (2) LEC. 1. LAB. 2. Pr. LAND 5230. Departmental approval. This course emphasizes stormwater research, planning and design. Students learn technical skills and design techniques needed to construct projects with environmental integrity and aesthetic appeal.

LAND 5360 DYNAMIC SYSTEMS I: URBAN ECOLOGIES (3) LEC. 3. Pr. LAND 5230. Departmental approval. This course provides an overview of natural ecological systems and how they can be preserved or restored to enhance human and ecological health through sustainable design.
LAND 5370 PLANT EPHEMERALITY (2) LEC. 2. Pr. LAND 5230. Departmental approval. Studies of innovative design with plants, exploring issues of plant phenology and dynamic lifecycle conditions.

LAND 5380 PLANTS I (2-3) LEC. Departmental approval. Introduces strategies for innovative design with plants, exploring issues of plant association, starts, form, and function. Course may be repeated for a maximum of 3 credit hours.

LAND 5410 SEMINAR ON REAL ESTATE DEVELOPMENT (3) SEM. 3. Opportunity for students to further develop expertise through supervised, independent course study related to real estate development or pursue an area of interest that may not be covered in the current curriculum.

LAND 5430 URBAN THEORY (3) LEC. 3. An introduction to contemporary theories of urban design, geography, and cultural theory using case study methods.

LAND 5500 LAND ETHICS AND ENVIRONMENTAL RESPONSIBILITY (3) LEC. 3. Explores the ethical relationship of man and nature.

LAND 5510 ENVIRONMENTAL PLANNING STUDIO (6) STU. 12. Natural systems analysis as a basis for site planning and large scale facilities design. Level-II standing.

LAND 5520 LANDSCAPE ARCHITECTURE DESIGN STUDIO (6) STU. 12. Pr. LAND 5110. A continuation of the basic design studio emphasizing research, planning, and design problems at community to regional scales.

LAND 5540 HISTORY OF LANDSCAPE ARCHITECTURE II (3) LEC. 3. Explores the built landscape from the 17th Century to the present including designs in America, Europe and Asia.

LAND 5590 INDEPENDENT STUDY THESIS (6) STU. 12. A major integrative investigation of a focused problem area, defined and pursued by the student under the direction of a faculty member.

LAND 6030 LANDSCAPE DESIGN METHODS (3) LEC. 3. Introduces students to skills, techniques, and ways of thinking fundamental to landscape architectural design, preparing students for future studio courses by emphasizing making, precision, experimentation, iteration, and judgment.

LAND 6040 LANDSCAPE ISSUES & PRACTICES (3) LEC. 3. Introduces students to both a selection of key issues relevant to contemporary landscape architecture and practices employed by landscape architects engaging in those issues.

LAND 6130 STUDIO I: FOUNDATION STUDIO (5) AAB/STU. 5. Teaches foundational skills (drawing, modeling, and multiple representational skills) that are necessary to progress into future design studios.

LAND 6131 FIELDWORK I (1) AAB/FLD. 1. Departmental approval. Field studies and travel related to studio.

LAND 6140 HISTORY, THEORY, AND PRACTICE I: LANDSCAPE ARCHITECTURE AND CONTEMPORARY URBANISM (3) AAB/SEM. 3. Pr. LAND 5230 or LAND 6230. The historical development of American urban landscapes, theoretical concepts for understanding them, and survey of related landscape architectural practice.

LAND 6150 CONSTRUCTION I: LANDFORM & HYDROLOGY (3) LEC. 3. Departmental approval. Fundamental skills needed to analyze, understand, and manipulate landform with respect to form, grading, drainage, and stormwater management.

LAND 6160 GRAPHIC STUDIES I (2-3) AAB/LEC. Focus on basic tools and techniques for interpreting and representing landscapes: photography, field sketching, technical drawing, and mixed-media montage. Introduction to vector and raster-based software and integrated analog-digital workflows. Course may be repeated for a maximum of 3 credit hours.

LAND 6170 GRAPHIC STUDIES II (3) LEC. 3. Departmental approval. Graphic and communication theories and skills in a variety of media. Photoshop, Illustrator, Indesign and AutoCAD.

LAND 6230 STUDIO II (5) STU. 5. Iterative design processes that project and test design scenarios, refining propositions based on multiple performance criteria in relation to site specificity and community context. Departmental approval. May either LAND 5230 or 6230.

LAND 6231 FIELDWORK II (1) FLD. 1. Departmental approval. Field studies and travel related to studio.

LAND 6240 HISTORY, THEORY, AND PRACTICE II: LANDSCAPE ARCHITECTURE AND CONTEMPORARY CULTURE (3) LEC. 3. Survey of the history of and theory for landscape architectural practice as it relates to contemporary American culture.
LAND 6250 CONSTRUCTION II: MATERIALS & DETAILING (3) LEC. 3. Departmental approval. Fundamentals of design detailing of site assemblies, with emphasis on material research and construction methods.

LAND 6270 PLANT SPATIALITY (2) LEC. 2. Studies of innovative design with plants, exploring issues plant association, strata, and spatiality. Departmental approval. May count either LAND 5270 or 6270.

LAND 6290 GRAPHIC STUDIES II (3) LEC. 3. Focus on advanced digital methods and tools: mapping with GIS software; modeling, analysis, and rendering with Rhino and associated plugins; and photomontage, diagramming, and presentation assembly with Adobe software.

LAND 6330 STUDIO III (5) LEC. 5. Pr. LAND 5230 or LAND 6230. Departmental approval. Coreq. LAND 6331 and LAND 5331. Investigates eco-cultural relationships between regional, metropolitan and urban scales with emphasis on physical and social flows.

LAND 6331 FIELD STUDIES III (1) FLD. 1. Pr. LAND 5230 or LAND 6230. Departmental approval. Coreq. LAND 6330 and LAND 5330. Field studies and travel related to studio.

LAND 6340 HISTORY, THEORY, AND PRACTICE III: PRE-MODERN LANDSCAPES (3) LEC. 3. Pr. LAND 6240. Global history of landscape-making, particularly in relationship to urbanization and culture, from prehistory to the inception of modern landscape architecture. Departmental approval

LAND 6350 CONSTRUCTION III: HYDROLOGIES (2) LEC. 1. LAB. 2. Pr. LAND 5230 or LAND 6230. Departmental approval. This course emphasizes stormwater research, planning and design. Students learn technical skills and design techniques needed to construct projects with environmental integrity and aesthetic appeal.

LAND 6360 DYNAMIC SYSTEMS I: URBAN ECOLOGIES (3) LEC. 3. Pr. LAND 5230 or LAND 6230. Departmental approval. This course provides an overview of natural ecological systems and how they can be preserved or restored to enhance human and ecological health through sustainable design.

LAND 6370 PLANT EPHEMERALITY (2) LEC. 2. Pr. LAND 5230 or LAND 6230. Departmental approval. Studies of innovative design with plants, exploring issues of plant phenology and dynamic lifecycle conditions.

LAND 6380 PLANTS I (2-3) LEC. Departmental approval. Introduces strategies for innovative design with plants, exploring issues of plant association, strata, form, and function. Course may be repeated for a maximum of 3 credit hours.

LAND 6410 SEMINAR ON REAL ESTATE DEVELOPMENT (3) SEM. 3. Opportunity for students to further develop expertise through supervised, independent course study related to real estate development or pursue an area of interest that may not be covered in the current curriculum.

LAND 6430 URBAN THEORY (3) LEC. 3. An introduction to contemporary theories of urban design, geography, and cultural theory using case study methods.

LAND 7130 STUDIO IV (5) AAB/STU. 5. Departmental approval. Investigates design strategies and techniques for generating new resilient cultural and environmental practices within complex dynamic conditions.


LAND 7140 URBAN STUDIES II: GLOBAL URBANISM (3) LEC. 3. Departmental approval. Examines the major global drivers of urban change, contemporary theories of international urban design, geography and cultural theory.

LAND 7170 PLANTS II (2-3) AAB/LEC. Departmental approval. Introduces strategies for innovative design with plants, exploring issues of plant ephemerality, functionality, and phenology. Course may be repeated for a maximum of 3 credit hours.

LAND 7190 RESEARCH BY DESIGN: FRAMEWORKS, METHODS, AND STRATEGIES (3) SEM. 3. Design is not just about solving problems, but figuring out which questions to ask in the first place. This course guides students through the iterative process of situating, identifying, framing, and testing a student-chosen trend, topic, or question.

LAND 7230 STUDIO V: COMPREHENSIVE STUDIO (5) STU. 5. Pr. LAND 5230. The first part of a two-semester research studio which involves creating a new body of work within a theoretical context and then critically appraising this work and its theoretical framework.
LAND 7231 FIELDWORK V (1) FLD. 1. Coreq. LAND 7230. Course is directly linked to the Landscape Design Studio and offers students opportunity to travel to relevant locations to advance, contextualize, and frame the design studio. Emphasizes first-hand experiences of the landscape where careful observation and analysis occur; and introduces students to skills, techniques, and ways of thinking about site reconnaissance and gathering landscape intelligence.

LAND 7232 STUDIO V: TERMINAL (6) STU. 6. Pr. LAND 5230. Departmental approval. This is a directed studio that will ask students to look at a large site within a city and design an individual intervention that reflects the goals and objectives of that studio.

LAND 7240 THEORIES AND PRACTICES (3) SEM. 3. Departmental approval. This is a reading, writing, and discussion seminar that examines the idea that the development of a democratic, civic, diverse social ecology can create more resilient and sustainable communities.

LAND 7250 CONTEMPORARY ISSUES IN LANDSCAPE ARCHITECTURE (2) LEC. 2. Pr. LAND 5230. Departmental approval. Investigation of landscape architectural issues and topics that can be undertaken by means of design, and the development of methodologies and techniques appropriate to such investigation.

LAND 7270 CONSTRUCTION III: REGENERATIVE TECHNOLOGIES (2-3) LEC. Introduces issues of land contamination and explores remediative and regenerative technologies as design strategies towards new productive futures. Course may be repeated for a maximum of 3 credit hours.

LAND 7280 DYNAMIC SYSTEMS II: REGIONAL ECOLOGIES (3) LEC. 3. This lecture/field laboratory course examines conditions of regional ecologies at multiple scales and explores possible public and private responses to these issues.

LAND 7290 GRAPHIC STUDIES III (3) SEM. 3. Fundamental concepts of Geographic Information Systems are used to create visual frameworks for gathering, interpreting, and sharing spatial data in landscape architecture practice.

LAND 7330 STUDIO VI: COMPREHENSIVE STUDIO (5) STU. 12. Pr. LAND 5230 or LAND 6230. A culmination of a design research project that ends in a public review and exhibition.

LAND 7331 FIELDWORK VI (1) FLD. 15. Coreq. LAND 7330. Directly linked to the Landscape Design Studio and offers students opportunity to travel to relevant locations to advance, contextualize, and frame the design studio. Gets students out of the classroom and emphasizes first-hand experiences of the landscape where careful observation and analysis occur. Introduces students to skills, techniques, and ways of thinking about site reconnaissance and gathering landscape intelligence.

LAND 7332 STUDIO VI: TERMINAL (6) STU. 6. Pr. LAND 5230 or LAND 6230. Departmental approval. A directed studio that will ask students to look at a large site within a city and design an individual intervention that reflects the goals and objectives of that studio.

LAND 7340 PROFESSIONAL PRACTICE (3) LEC. 3. Pr. LAND 5230 or LAND 6230. Departmental approval. This course surveys the development and ethics of the profession of landscape architecture and presents an overview of the business and practice of the profession.

LAND 7350 LANDSCAPE COMPUTER MODELING (2) LEC. 2. Departmental approval. Three dimensional and dynamic systems modeling.

LAND 7410 SEMINAR ON HISTORY AND THEORY (3) LEC. 3. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum.

LAND 7420 SEMINAR ON COMMUNITY OUTREACH (3) SEM. 3. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum.

LAND 7430 SEMINAR ON HYDROLOGY (2-3) SEM. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum. Course may be repeated for a maximum of 3 credit hours.

LAND 7440 SEMINAR ON LANDSCAPE COMMUNICATION (3) SEM. 3. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum.
LAND 7450 SEMINAR ON LANDSCAPE RESEARCH (2-3) SEM. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum. Course may be repeated for a maximum of 3 credit hours.

LAND 7470 LANDSCAPE ARCHITECTURE INTERNSHIP (3) PRA. 3. By approval of Chair of Landscape Architecture. A practical, professional, full-time, curriculum-related work experience in the industry of landscape architecture. Under joint supervision of employer and university. Course may be repeated for a maximum of 3 credit hours.

LAND 7530 DESIGN BUILD FELLOWSHIP (3-6) LEC/PRA. Pr. LAND 5230. Departmental approval. The design investigation and construction/installation of a landscape proposal. Course may be repeated for a maximum of 6 credit hours.

LAND 7900 DIRECTED STUDIES (1-3) AAB. An individual student can pursue an area of research beyond the required curriculum. Departmental approval; MLA II standing. Course may be repeated for a maximum of 9 credit hours.

LAND 7960 SPECIAL PROBLEMS IN LANDSCAPE ARCHITECTURE (2) LEC. 2. Departmental approval. Investigation of landscape architectural issues and topics that can be undertaken by means of design, and the development of methodologies and techniques appropriate to such investigation.

LAND 7970 SPECIAL TOPICS (1-6) AAB. Groups of student work with a specific faculty on a special topic in an area of interest. Course may be repeated for a maximum of 9 credit hours. ADDITIONAL PREREQUISITES: Departmental approval; MLA I standing.

LAND 7990 DESIGN THESIS I (6) LEC. 6.

LAND 7991 DESIGN THESIS II (8) LEC. 8.

LAND 7992 RESEARCH SUMMARY (1) LEC. 1.

Real Estate Development Courses

RDEV 7126 FIELD STUDIES (1-3) DR1/DR2. 1-3. This course provides students with the opportunity to visit real estate development firms and ongoing projects. Course may be repeated for a maximum of 6 credit hours.

RDEV 7136 PRINCIPLES OF REAL ESTATE DEVELOPMENT (3) DR1/DR2. 3. An introduction to theory and practice as applied to fundamental topics in real property law, real estate markets, valuation, investment analysis and property financing as they effect various topics in real estate development.

RDEV 7146 REAL PROPERTY ANALYSIS (3) DR1/DR2. 3. This is a case study course, providing an overview of key concepts in real estate development and real property analysis.

RDEV 7236 REAL ESTATE MARKET ANALYSIS (3) DR1/DR2. 3. This class will provide concentrated study in real estate markets. Critical components of the course will include the study of the link between the Property and Asset Markets.

RDEV 7246 BUILDING DESIGN AND CONSTRUCTION PRINCIPLES (3) DR1/DR2. 3. This course will illustrate some of the building design and construction principles that real estate development professions engage in their practice every Day.

RDEV 7346 SITE PLANNING AND INFRASTRUCTURE DEVELOPMENT (3) DR1/DR2. 3. This course examines the role that site selection and infrastructure development play in the sustainable conceptualization, feasibility, and implementation of a real estate development project.

RDEV 7356 REAL ESTATE INVESTMENT ANALYSIS (3) DR1/DR2. 3. This class will provide concentration study in real estate investment.

RDEV 7436 REAL ESTATE PROJECT MANAGEMENT (3) DR1/DR2. 3. This course examines the real estate development process from conceptualization to actualization.

RDEV 7446 REAL ESTATE CONTRACT NEGOTIATIONS (1) DR1/DR2. 1. This course will teach the basic skills necessary to become an effective negotiator. The course will include planning and preparing necessary elements for contract negotiation. Additionally, the communications skills necessary to foward the negotiation agenda will be addressed.

RDEV 7536 REAL ESTATE CAPITAL MARKETS (3) DR1/DR2. 3. This class will provide an in-depth look at the fundamental principles and practices as applied to the financing of residential and commercial real estate.
RDEV 7546 REAL ESTATE DEVELOPMENT LAW (3) DR1/DR2. 3. This course examines the legal issues related to acquisition, planning, design, entitlement, construction, development financing, property management, accounting, taxation, reversion, and estate planning.

RDEV 7636 REAL ESTATE DEVELOPMENT CAPSTONE PROJECT (5) DR1/DR2. 5. This Capstone Project seeks to develop an appreciation of real estate development process and the critical roles played by the design, planning, and construction industries.

School of Industrial and Graphic Design

Graphic Design Academic Standards

Students pursuing the bachelor of fine arts degree (BFA) in graphic design (GDES) will enroll in the College of Architecture, Design and Construction as Pre-Graphic Design (PGDE) majors for the first year level curriculum.

Acceptance and Progression into the Professional Graphic Design Program

The program maintains the right to limit freshmen and transfer enrollment. Admission into the BFA in graphic design is selective, is limited, and is based on a multiple step process.

1. Application for Pre-Graphic Design: Once accepted to Auburn University, students will be designated as Pre-Graphic Design (PGDE) for the first year of the curriculum. Entering freshmen admitted to Auburn who are admitted as PGDE to the major must begin their program of study in the fall or spring term of the academic year after they are admitted, or they will be held to the same admission requirements as transfer students. Entering freshmen who are not admitted into Pre-Graphic Design may consider other programs in the college and should communicate with the CADC Office of Student Services to discuss options.

2. PGDE to GDES second year level Courses: After completing the first year level Pre-Graphic Design curriculum, an admission process based on GPA ranking admits qualified students into the Graphic Design second year level program for the GDES 2210 and GDES 2220 courses. Once accepted into the second year level Graphic Design major, the students will be classified as GDES and be considered probationary. The admissions process into the second level GDES program is as follows: Pre-Graphic Design students must complete at least 28 semester hours of credit including: GDES 1110 Foundation Drawing; GDES 1210 Foundation Design I; GDES 1220 Foundation Design II; ARTS 2100 and ARTS 2150; and at least 6 hours of coursework counting toward the University Core Curriculum. The GPA for entrance to the second level of Graphic Design will be calculated on the above listed courses only. (The two highest Core grades will be utilized.) [Grades received at other institutions in courses that have been accepted by Auburn, as Core or fundamental art course requirements, will be included in the GPA.] Following completion of the above listed courses, PGDE students will submit an Application to BFA in Graphic Design Degree Program to the CADC Office of Student Services. Students will be ranked by GPA and the top students will be selected. These students will be notified and then registered in the next level courses – GDES 2210 Graphic Processes and GDES 2220 Typographics I, by CADC Office of Student Services. Students who are not accepted can reapply in following semesters.

3. B.F.A in Graphic Design Entrance Review All probationary second-year level GDES students who have achieved a minimum 2.50 GPA in GDES 2210 and GDES 2220 are eligible to apply through a portfolio review process for GDES 2230. The Graphic Design Review Committee will conduct an entrance review twice per academic year, at the end of fall semester and at the end of spring semester. To advance to GDES 2230, it is required that students submit an unofficial transcript showing the required GPA, a portfolio of work from GDES 2210 and GDES 2220, and a one page typewritten statement of intent. The portfolio will consist of 6 projects from the two courses (no more than four projects from one course). The statement of intent should include reasons for choosing the Graphic Design major and address career goals. The Graphic Design Review Committee will evaluate the student’s portfolio and written statement in terms of the individual student’s skills, artistic perception, conceptualization, and professionalism. Upon successful admission by portfolio review, the student will be required to purchase a laptop computer that meets minimum specifications and will be allowed to register for 3000-level courses.

Continuation in the Program

The Graphic Design Program is very demanding and competitive. Each student’s success in this program is not guaranteed; therefore, it is expected that each student will work hard to meet all of the requirements of this professional program. Students are advised to be aware of their strengths and weaknesses and continue to work towards excellence in all areas.

Due to prerequisites within the Graphic Design curriculum, all required coursework* in the Graphic Design major must be completed with a grade of C or better. In the event a C is received in a required course, then the student will be asked to meet with the Graphic Design student advisor. If a grade of D or F is received in any required coursework*, a review may be required by the Graphic Design program chair, and the student will be required to repeat the course before continuing in the program.
Students receiving a second C, D, or F in required courses* will be reviewed for continuance by a committee of graphic design faculty to determine the student’s ability to meet the requirements of the GDES professional degree program.

*Required coursework includes: GDES 2230, GDES 3710, GDES 3240, GDES 3210, GDES 4640, GDES 4240, GDES 4250, GDES 4990, GDES 4991

**Transfer Students for Graphic Design**

The Graphic Design (GDES) program maintains the right to limit transfer enrollment based on available resources. On and off-campus transfer students must file a GDES Transfer Student Admission Application and meet criteria listed in the application with the CADC Office of Student Services no later than the posted deadline.

A student must have a minimum cumulative unadjusted GPA of 2.8 (on a 4.0 scale) on all collegiate work attempted and will be accepted on a space-available basis as determined by the School Head.

On and off campus transfer applicants must meet criteria listed in the “Academic Policies” section of the Auburn University Bulletin. The application packet includes an application form, statement of intent, and official transcripts from all schools attended. A portfolio is required for consideration of transfer credit for any studio classes taken. Applicants must be admitted to Auburn University at the time of application. Screening of applications for fall admission begins in March with applicants notified by e-mail. Screening of applications for Spring admission begins in October with applicants notified by e-mail. Students admitted MUST begin the program the following term. Course work in the major must be taken in sequence; transfer students should anticipate that additional semesters of study may be required to complete the program.

**Industrial Design Academic Standards**

The required INDD First Year Studio summer sequence is offered to students in good standing who meet the following criteria: completion of 24 credit hours of university work or with approval of the School Head. Students are not required to have completed the INDD freshman model curriculum before enrolling in the summer semester INDD First Year Studio. The First Year Studio sequence is only offered in the summer semester.

**Acceptance and Progression in the Professional Industrial Design Program**

The department maintains the right to select the most highly qualified students for admission to and for continuation in the INDD professional program. Enrollment is restricted in upper-level professional INDD studios (second, third, and fourth year) and based on INDD GPA. Students not admitted into an upper level professional INDD studio may retake the summer studio sequence in subsequent years and are re-ranked against new applicants and available resources in that year level. The department reserves the right to retain original work accomplished as part of course instruction.

After a student is accepted into the summer semester First Year Studio, the student must make at least a grade of C or higher in studio courses in order to be considered for progression in the program. Grades below C in studio courses 1310 through 4210 must be repeated. Design courses must be taken in sequence unless otherwise approved by the school head. A portfolio and presentation at a high school are required for graduation.

**Special Opportunities for Qualified Students**

The School of Industrial and Graphic Design Study Abroad programs are design experiences, with students sharing studios and workshops at colleges and universities in England, Ireland, Northern Ireland, Scotland, Taiwan, and Hong Kong.

**Transfer Students for Industrial Design**

Please contact the School Head of Industrial and Graphic Design for information on transferring into Industrial Design.

**Majors**

- Graphic Design (p. 28)
- Industrial Design (p. 29)
- Post-Baccalaureate Industrial Design Studies (p. 30)

**Minors**

- Industrial and Graphic Design Processes (p. 31)
Environmental Design Courses

**ENVD 2000 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES I (3)** LEC. 3. Pr. ARCH 1000 or INDD 1120 or BSCI 1100. Or ENVD major. Core knowledge of design and construction disciplines and business practices related to human-designed environments. Includes national and global perspectives and focus on interdisciplinary studies.

**ENVD 2007 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES I (3)** LEC. 3. Pr. ARCH 1000 or INDD 1120 or BSCI 1100. Or ENVD major. Core knowledge of design and construction disciplines and business practices related to human-designed environments. Includes national and global perspectives and focus on interdisciplinary studies.

**ENVD 2010 INTRODUCTION TO DESIGN AND DESIGN METHODS (3)** LEC. 3. Introduces students to the importance of design and basic design methods.

**ENVD 2040 DESIGN, INVENTION AND SOCIETY (3)** LEC. 3. Role of design and invention in society from the ancient to the contemporary world.


**ENVD 2200 READINGS IN LANDSCAPE ARCHITECTURE (3)** SEM. 3. Investigates the idea of landscape through a range of texts, images, and built works that have helped form, and continue to shape, our understanding of the landscape. First year of B.ENVD.

**ENVD 3000 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES II (3)** LEC. 3. Pr. ENVD 2100. Departmental approval. Advanced knowledge of design, construction and planning disciplines and practice. National/global environmental design issues, focus on interdisciplinary concepts, hybrid practices, & sustainability.

**ENVD 3100 CIVIC ENGAGEMENT AND RESEARCH METHODS (3)** LEC. 3. Pr. ENVD 3000. Departmental approval. Civic engagement and research methods for environmental design. This is a research prep course to develop research methods, projects, and community partnerships for summer ENVD 4100 workshop capstone.

**ENVD 3200 SYSTEMS IN BUILT ENVIRONMENT I (3)** SEM. 2.5. Pr. ENVD 2100. Focus on research of different systems in built environments, and different research methods that can be used in design in order to understand and represent them.

**ENVD 3300 SYSTEMS IN BUILT ENVIRONMENT II (3)** SEM. 2.5. Pr. ENVD 2100. Focuses on application of research from design and construction disciplines in built environment through testing and prototyping, thus exploring potential for application in a larger context.

**ENVD 4000 ELEMENTS OF URBAN DESIGN (3)** LEC. 3. Pr. ENVD 2100. ENVD 4000 provides environmental design students with an introduction to urban design theories, methods and processes through combination of lectures and hands-on instruction.

**ENVD 4010 ELEMENTS OF DESIGN THINKING AND COMMUNICATION (3)** LEC. 3. This is a 3-credit hour class that builds design communication skills through a series of projects that utilize both hand-rendering and digital media.

**ENVD 4017 ELEMENTS OF DESIGN THINKING AND COMMUNICATION (3)** LEC. 3. This is a 3-credit hour class that builds design communication skills through a series of projects that utilize both hand-rendering and digital media.

**ENVD 4100 ENVIRONMENTAL DESIGN WORKSHOP II - CAPSTONE (6)** LEC. 6. Pr. ENVD 3100. Environmental design knowledge & technical skill set using principles of collaboration, leadership & effectiveness training, hands-on experience, civic engagement & design communication skills.

**ENVD 4500 PROFESSIONAL PRACTICE (3)** SEM. 3. Pr. ENVD 3000. Enable students to learn elements of professional communication; create persuasive portfolio of their work; and to seek, and prepare for, internship and job opportunities.

**ENVD 4900 DIRECTED STUDIES (3)** IND. 3. Pr. ENVD 2100. Highly focused study (design research, design research application) in an area of interest to student that is approved by, and supervised by, a faculty member with such expertise. Must be in Junior or Senior status. Course may be repeated for a maximum of 6 credit hours.

**ENVD 4920 INTERNSHIP IN ENVIRONMENTAL DESIGN (1)** INT. 1. SU. Faculty Approval. Internship in the areas of environmental design, as approved by faculty supervisor.
ENVD 4970 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN (3) LEC. 3, AAB. 0. Topics include: digital production, portfolio making and design thinking. Course may be repeated for a maximum of 9 credit hours.

ENVD 4977 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN (3) LEC. 3. Topics include: digital production, portfolio making and design thinking. Course may be repeated for a maximum of 9 credit hours.

ENVD 5030 STUDIES IN DESIGN THINKING AND ENTREPRENEURSHIP (3) SEM. 3. Study and application of design and innovation thinking in entrepreneurship, with a special emphasis on social entrepreneurship. May count either ENVD 5030 or ENVD 6030.

ENVD 5037 STUDIES IN DESIGN THINKING AND ENTREPRENEURSHIP (3) LEC. 3. Study and application of design and innovation thinking in entrepreneurship, with a special emphasis on social entrepreneurship. May count either ENVD 5030 or ENVD 6030.

Graphic Design Courses

GDES 1110 FOUNDATION DRAWING (4) STU. 8. Coreq. GDES 1210. PGDE majors only; school approval. Representational drawing with various media. Emphasis on accurate observation, pictorial organization, depiction of space as well as on concept development and creativity.

GDES 1210 FOUNDATION DESIGN I (4) LEC. 1, STU. 6. Coreq. GDES 1110. PGDE majors only; school approval. Elements and principles of basic two-dimensional design. Emphasis on composition, color theory, and craftsmanship.

GDES 1220 FOUNDATION DESIGN II (4) LEC. 1, STU. 6. Pr. GDES 1210. Elements and principles of design with emphasis on basic three dimensional design. Emphasis on spatial organization, color, and media exploration, planning and craft.


GDES 2220 TYPOGRAPHICS I (4) LEC. 1, STU. 6. Pr. GDES 1110 and GDES 1220 and (ARTS 2100 and ARTS 2150). Coreq. GDES 2210. Historical development and practical applications of typography for design, layout, and other contemporary formats. School approval.

GDES 2230 INTRODUCTION TO GRAPHIC DESIGN (4) STU. 8. Pr. GDES 2210 and GDES 2220. Design, layout, and image-making procedures for creative problem-solving in graphic design, with emphasis on presentation, creativity, and visualization. School approval. Portfolio review required.

GDES 3110 ELEMENTS & PRINCIPLES OF DESIGN I: FORM AND COMPOSITION (3) LEC. 3. Pr. INDD 1120. This course will expose students to a variety of design methods, and their applicability to non-design disciplines, highlighting the parallel between critical thinking and design thinking.

GDES 3120 ELEMENTS & PRINCIPLES OF DESIGN II: TYPOGRAPHY AND IMAGE (3) LEC. 3. Pr. INDD 1120. This course will teach the basic concepts and vocabulary of typography with an emphasis on the expressive potential of typography when combined with imagery in layout form.

GDES 3130 GRAPHIC DESIGN LITERACY: MESSAGE, CONTEXT, MEANING (3) LEC. 3. Pr. INDD 1120. This course is a seminar that prepares students to participate actively and confidently in conversations about visual communications. Students investigate the historical bases of graphic design as well as examine contemporary issues informing the practice of graphic design. Seminar members read and discuss case studies and design criticism, and apply analytical approaches to examples of contemporary design through oral presentations and written arguments.

GDES 3140 DESIGN THINKING: INTRODUCTION TO DIGITAL SCREEN MEDIA (3) LEC. 3. Application of design thinking (focus on experience of the user) in the context of screen-based (computers, web applications, phones) design. Projects may include the redesign of an existing website, design concept for a new mobile application, and a new video game concept.

GDES 3210 PHOTO DESIGN (4) STU. 8. Pr. GDES 2210 and GDES 2220. Traditional black and white film photography that covers technical aspects of the 35mm camera and film and basic darkroom procedures for black and white film and basic darkroom procedures for black and white film and an awareness of the aesthetics and semantics associated with photographic imagery.

GDES 3220 PHOTO COMMUNICATIONS (4) STU. 8. Photography as applied communication such as advertising, editorial photography, and annual report photography. Emphasis on advanced technological and studio techniques.
GDES 3230 LETTERPRESS IMAGING (4) LEC. 1, LST. 3. Pr. GDES 2230. Experimental imaging using letterpress equipment to develop new techniques appropriate to today's communications industry. Emphasis on individual creativity, experimentation and initiative.


GDES 3250 TYPOGRAPHICS II (4) STU. 8. Pr. GDES 2230. Experimental application of typography for design and layout, exploring contemporary techniques. Historical understanding expected. Emphasis on presentation and visualization of concepts.

GDES 3260 KINETIC TYPOGRAPHY (4) LEC. 4. Pr. GDES 2230. Focuses on how motion affects meaning and how new meaning can be developed through time, space, and sound.

GDES 3270 ADVANCED INTERACTIVE MEDIA (4) STU. 8. Pr. GDES 2230. Focuses on the principles and methodologies used throughout the interactive design industry for creating screen-based dynamic media. Students develop a conceptual framework for real world applications, exploring industrial, social and cultural issues.

GDES 3910 GRAPHIC DESIGN HISTORY (4) LEC. 4. Pr. GDES 2230. Coreq. GDES 3240. History of graphic design, with emphasis on social and cultural contexts, symbolic application, formal characteristics, and significant movements.

GDES 3920 GRAPHIC DESIGN INTERNSHIP (4) INT. 4. Pr. GDES 2230. a fifteen-week period working full time as a staff member with an approved internship sponsor under the direction of a supervising art director.

GDES 4250 GRAPHIC DESIGN II (4) STU. 8. Pr. GDES 2230. Concepts of graphic design are explored; specifically an understanding of grid, message-making and qualities of design in the magazine format.

GDES 4270 ADVANCED INTERACTIVE MEDIA (4) STU. 8. Pr. GDES 3710. Application of communicative procedures and skills necessary to convey messages by means of graphic presentation: problem solving in corporate identity, advertising design, self promotion, etc. Development of student's individual style.

GDES 4640 IMAGE I (4) STU. 8. Pr. GDES 2230. Application of illustration techniques and concepts to various graphic formats. Development of personal skills and individual style.

GDES 4900 DIRECTED STUDIES FOR GRAPHIC DESIGN (2-3) AAB. Pr. GDES 2210 and GDES 2220. Directed Studies in Graphic Design focuses on individualized study in Graphic Design. Student must have a 3.0 average in GDES course curriculum and departmental approval. Topics may include Graphic Design, Imaging, Web Design. Course may be repeated for a maximum of 9 credit hours.

GDES 4970 SPECIAL TOPICS FOR GRAPHIC DESIGN (4) LEC. 1, LST/ST1. 6. Pr. GDES 2230 and GDES 3710. Special Topics in Graphic Design focuses on topics in graphic design that are additional to the regular curriculum. Specific course topics are developed by the instructor. Student must have a 3.0 average in GDES GDES course curriculum. Course may be repeated for a maximum of 12 credit hours.

GDES 4990 SENIOR PROJECT FOR GRAPHIC DES (5) STU. 10. Pr. GDES 4250. Coreq. GDES 4991. A directed terminal studio project with choice of subject and medium. Project will be exhibited and a faculty committee will award a letter grade. Must be taken in student’s final semester.

GDES 4991 RESEARCH, WRITING AND PRESENTATION (1) LEC. 1. Pr. GDES 4250. Coreq. GDES 4990. Addresses research, writing and presentation requirement associated with the student's terminal studio project. Must be taken in student's final semester.
Industrial Design Courses

INDD 1120 INDUSTRIAL DESIGN IN MODERN SOCIETY (3) LEC. 3. Survey of design and its impact upon modern society. Review of methods, products, marketing, patents, education, and career opportunities.

INDD 1310 SYNTHESIS OF DRAWING (10) LEC. 3, LST. 12. Developing mechanical and production design drawings, with in-depth study of perspective systems. Product design communication with emphasis on drawing, development, and presentation.

INDD 1320 PROTOTYPE FABRICATION (3) LEC. 2. LAB. 2. Coreq. INDD 1310. Fabrication of three-dimensional models utilizing various materials and machineries. Includes model making, creative modeling, study models, presentation models, mock-ups and prototypes.

INDD 1400 CAREERS IN INDUSTRIAL DESIGN (2) LEC. 2. Survey of careers in the field of industrial design demonstrated through case studies, product examples and biographies.

INDD 2110 TWO DIMENSIONAL INDUSTRIAL DESIGN PRINCIPLES (6) LEC. 2, LST. 10. Transference of abstract principles of design to fabrication of simple tools. Emphasis on expression of functional objects.

INDD 2120 COMPUTER AND DESIGN COMMUNICATIONS (3) LEC. 2. LAB. 2. Alternative modes of communicating design ideas via computer. Executing design ideas for two-dimensional design fundamentals and mechanical design drawings.

INDD 2130 PRESENTATION RENDERING (3) LEC. 2. LAB. 2. Concept development using drawing and rendering skills with different media for ideas communication and presentation.

INDD 2210 THREE DIMENSIONAL INDUSTRIAL DESIGN PRINCIPLES (6) LEC. 2, AAB/LST. 10. Pr. INDD 2110. Analysis of design fundamentals through three dimensional form. Analyzing function, utility, convenience, safety, maintenance and sustainable design.

INDD 2220 ANTHROPOMETRY (3) LEC. 3. Pr. INDD 2110. Body measurements, movements and human capacity in relation to design with introduction to ergonomy and human physiology as it relates to design. School approval.

INDD 2230 HISTORY OF INDUSTRIAL DESIGN (3) LEC. 3. Pr. INDD 2110. Survey humankind's production of artifacts, from prehistory to present. Emphasis on ideas that mass produced artifacts mirror history and everyday culture.

INDD 3110 EXHIBIT AND PACKAGING (6) LEC. 1, LST. 8. Pr. INDD 2210. Display systems using models, concepts development, rendering, packaging, identity programs and professional presentations.


INDD 3130 BASIC PHOTOGRAPHY FOR INDUSTRIAL DESIGN (3) LEC. 2. LAB. 2. Pr. INDD 2210. Photography in design and art environments. Techniques of developing, printing and enlarging. Lighting techniques for portfolio photography, including lighting, studio photography, composition.

INDD 3150 DESIGN THINKING: INTRODUCTION TO PRODUCT SOLUTIONS (3) LEC. 2. LAB. 1. Application of design thinking (focus on experience of the user) in the context of product design. Students will deconstruct a design of an existing product and create a design concept for a new product. Introduces innovation in physical products and services through collaborative and creative approaches to critical and strategic thinking with focus on the user. Course may be repeated for a maximum of 6 credit hours.

INDD 3210 PRODUCT DESIGN (6) LEC. 2, LST. 10. Pr. INDD 3110. Product design utilizing design methodology from proposal to working pre-prototype, including planning, research, development, model-making, manufacturing and documentation.

INDD 3220 MATERIALS AND TECHNOLOGY (3) LEC. 3. Pr. INDD 3120. Characteristics and utility of materials such as plastic, metal, and ceramics in manufacture and the study of machine/tool processes used by industry.

INDD 3230 ADVANCED COMPUTER AIDED DESIGN (3) LEC. 2. LAB. 2. Pr. INDD 2120. Introduction to CAD software emphasizing three-dimensional modeling. Students will learn drawing functions. Concepts of three-dimensional relationship of objects discussed.

INDD 4110 ADVANCED PRODUCT DESIGN (6) LEC. 2, AAB/LST. 10. Pr. INDD 3120 and INDD 3210. Design or redesign of products and systems of advanced complexity.
INDD 4120 ADVANCED COMPUTER AIDED DESIGN II (3) LEC. 3. Pr. INDD 3230. This course builds on concepts learned in INDD 3230, with emphasis on form creation, modeling and troubleshooting and the use of digital techniques to produce three dimensional models.

INDD 4210 INDUSTRIAL DESIGN THESIS (6) LEC. 2, AAB/LST. 10. Pr. INDD 4110. Product design projects involving all design phases; including planning, research, development, finalization, specification, and documentation.

INDD 4220 PROFESSIONAL PRACTICE (3) LEC. 3. Pr. INDD 3110 and INDD 3210. Business aspects of industrial design, including property, design contract, letters of agreement, business planning and design marketing.

INDD 4907 HONORS READING (1-3) LEC. Course may be repeated for a maximum of 3 credit hours.

INDD 4997 HONORS THESIS (1-3) LEC. Pr. Honors College. Departmental approval. Course may be repeated for a maximum of 3 credit hours.

INDD 5010 HISTORY OF INDUSTRIAL DESIGN II (3) LEC. 3. A survey of humankind's production of artifacts, from prehistory to contemporary times, with an emphasis on the idea that mass produced artifacts mirror the meanings of historical events and everyday culture.

INDD 5030 CASE STUDIES IN DESIGN (3) LEC. 3. Design projects undertaken by industry studied by examination of artifacts and records, and by class discussion. Focus on the socio-cultural relevancy of the artifacts.

INDD 5120 PROFESSIONAL PORTFOLIO (3) LEC. 3. Pr. INDD 3110 and INDD 3210. Design and development of a portfolio and promotional material presenting the student's work to entry-level professional standards.

INDD 5960 SPECIAL PROBLEMS (1-5) AAB. Development of individual projects. Research, design and reports on approved topics. Course may be repeated for a maximum of 15 credit hours.

INDD 6010 HISTORY OF INDUSTRIAL DESIGN II (3) LEC. 3. A survey of humankind's production of artifacts, from prehistory to contemporary times, with an emphasis on the idea that mass produced artifacts mirror the meanings of historical events and everyday culture.

INDD 6030 CASE STUDIES IN DESIGN (3) LEC. 3. Design projects undertaken by industry studied by examination of artifacts and records, and by class discussions. Focus on the socio-cultural relevancy of the artifacts.

INDD 6120 PORTFOLIO (3) LEC. 3. Preparation of professional portfolio for graduation and employment.

INDD 6960 SPECIAL PROBLEMS (1-5) AAB. Development of individual projects. Research, design and reports on approved topics. Course may be repeated for a maximum of 15 credit hours.

INDD 7010 DESIGN ORIENTATION (3) LEC. 3. Introduction to the Industrial Design graduate program: degree options, study directions, research methods, and areas. Students are required to develop a research/project proposal.

INDD 7020 COMPUTER/INDUSTRIAL DESIGN (3) LEC. 3. Synthesizing studies in research, analysis, and application based on interdisciplinary concept. Emphasis on the relation of products and systems to those who use them.

INDD 7610 HUMAN FACTORS IN DESIGN (3) LEC. 3. Detailed study of the communication principles of form qualities with emphasis of these aesthetic principles to the technical and human factors of artifacts.

INDD 7620 DESIGN ORIENTATION (3) LEC. 3. Detailed study of the industrial design project management and development with emphasis on the interrelational management concepts of research, product planning, production and marketing.

INDD 7630 HUMAN FACTORS IN DESIGN (3) LEC. 3. Theoretical and empirical examination of human factors (Anthropometrics, Biotechnology, Engineering Psychology, Behavioral Cybermetrics, Ergonomics) as applied to man-machine environmental systems.

INDD 7640 AESTHETICS IN DESIGN (3) LEC. 3. Aesthetics in the context of the designed environment encompassing: non-verbal communication; object language semiotics; gestalt and perception systems; information aesthetics, and consumer product safety.

INDD 7650 DESIGN THEORIES (3) LEC. 3. Examination of design theories and philosophies related to technical artifacts in man-machine systems. Comparative studies of unifying theories in art, science, design, technology and the humanities.

INDD 7660 INDUSTRIAL DESIGN METHODOLOGY (3) LEC. 3. Industrial design methodologies and specific methods employed in research, analysis, synthesis, and evaluation in comprehensive design problems.
INDD 7670 SYSTEMS DESIGN (3) LEC. 3. Systems approach and interdisciplinary team work to design problems inquires into details of sub-systems, components and parts, with emphasis on the relation of the performance of technical systems to optional human factor effects.

INDD 7910 INDUSTRY PRACTICUM (5) AAB/STU. 5. This course will demand the application of acquired skill to the resolution of product design based issues within an industry collaboration studio over the period of one semester.

INDD 7980 NON-THESIS DESIGN (3) STU. 3. Synthesizing studies in research, analysis and application based on interdisciplinary concept. Emphasis on the relation of products and systems to those who use them.

INDD 7990 DESIGN THESIS (1-5) AAB/RES. Credit to be arranged. Course may be repeated with a change in topic.

**Curriculum in Graphic Design**

The Graphic Design program in the School of Industrial and Graphic Design prepares students to practice visual communication in a competitive global environment. Graphic Design students follow a curriculum that provides variety and depth in all aspects of the field, supported by Fine Arts electives. Varied career opportunities range from the development of strategies to implement large-scale communications campaigns, to the design of effective communication products such as magazines, logo and identity development, interactive media, web design, packaging, exhibitions, illustration, and environmental graphics. Graphic design students have excellent opportunities for internship and cooperative education experiences as a result of well established relationships with regional, national and international companies and firms.

**Curriculum in Graphic Design**

Please see CADC advisors in the Office of Student Services for the most current 2012-2013 GDES curriculum model.

### Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1100 English Composition I</td>
<td>3</td>
<td>ENGL 1120 English Composition II</td>
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<tr>
<td>GDES 1110 Foundation Drawing</td>
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<td>Core Science I</td>
<td>4</td>
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<td>GDES 1210 Foundation Design I</td>
<td>4</td>
<td>GDES 1220 Foundation Design II</td>
<td>4</td>
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<tr>
<td>ARTS 2100 Foundations of Art History I</td>
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<td>ARTS 2150 Foundations of Art History II</td>
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### Sophomore

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<td>Core History (Social Science)</td>
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<td>Core Social Science</td>
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<td>GDES 2210 Graphic Processes</td>
<td>4</td>
<td>GDES 2230 Introduction to Graphic Design</td>
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<td>GDES 2220 Typographics I</td>
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<td>Art History/Art/Design Elective</td>
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<td>3000-Level Art History</td>
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### Junior

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<td>Core Science with lab</td>
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<td>GDES 3210 Photo Design</td>
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<td>GDES 3240 Interactive Media</td>
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<td>GDES 4240 Graphic Design I</td>
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<td>GDES 3710 Graphic Design History</td>
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<td>Art History/Art/Design Elective</td>
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17
Senior

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<th>Fall</th>
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<td>Social Science</td>
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<td>Core Fine Arts (Humanities)</td>
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<td>Graphic Design Electives</td>
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<td>GDES 4250 Graphic Design II</td>
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<td>GDES 4991 Research, Writing and Presentation</td>
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<td>Graphic Design Electives</td>
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<td>GDES 4990 Senior Project for Graphic Des</td>
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</table>

Total Hours: 123-124

See advisor for approved course listing.

* GDES 4640 or GDES 3220 can be substituted for GDES 3210.

*For additional polices/standards please visit:
http://bulletin.auburn.edu/undergraduate/collegeofarchitecturedesignandconstruction/industrialandgraphicdesign/ (p. 21)

Curriculum in Industrial Design

Students of Industrial Design learn the basic principles of design, engineering, human factors, marketing and sociology. They acquire such technical skills as computer-aided design and drafting, prototype fabrication, photography, sketching and graphics techniques. Students are introduced to design methods, color theory, product planning, visual statistics, materials, manufacturing methods, consumer psychology and environmental studies.

The four and a half year (nine semester) curriculum, which is accredited by the National Association of Schools of Art and Design, leads to the professional degree of bachelor of industrial design. Graduates will qualify for positions in industrial design consultant offices and in various industries. Motivated students will be considered for admission to the Graduate Program in industrial design.

The Cooperative Education Program is offered at the completion of the second year of studio. A one semester internship experience is recommended before enrollment in the fourth year studio sequence.

Curriculum in Industrial Design

Freshman

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<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
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<tr>
<td>ENGL 1100 English Composition I</td>
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<td>ENGL 1120 English Composition II</td>
<td>3</td>
<td>INDD 1310 Synthesis of Drawing</td>
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<tr>
<td>HIST 1210/1217 Technology and Civilization I</td>
<td>3</td>
<td>HIST 1220/1227 Technology And Civilization II</td>
<td>3</td>
<td>INDD 1320 Prototype Fabrication</td>
<td>3</td>
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<tr>
<td>Core Mathematics</td>
<td>3</td>
<td>Core Science</td>
<td>4</td>
<td>INDD 1400 Careers in Industrial Design</td>
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<tr>
<td>INDD 1120 Industrial Design in Modern Society*</td>
<td>3</td>
<td>Core Fine Arts (Humanities)</td>
<td>3</td>
<td>After successful completion of this studio sequence, the top 45 students, based on grade point averages accumulated during the summer semester, are allowed to proceed into the fall semester industrial design professional program.</td>
<td></td>
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<tr>
<td>Free Elective</td>
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13 13 15
Curriculum in Industrial Design - Post-Baccalaureate Industrial Design Studies

Bachelor of Science in Industrial Design Studies – (Post-Baccalaureate Industrial Design)

The Bachelor of Science in Industrial Design Studies (IDSS-Post Bacc) is a NASAD accredited program for second-degree-seeking students who have already received an accredited bachelor’s degree in a field other than Industrial Design, and have a cumulative GPA of 2.5 or higher. Students who have successfully completed a Bachelor of Science in Industrial Design Studies with a 3.0 or better average, and have passed the Post Baccalaureate Review, are eligible to apply to the Master of Industrial Design (M.IND) program at Auburn University. The program consists of 43-credit hours of industrial design coursework (see curriculum model) designed to ensure that degree recipients have the necessary skill, technical understanding, and intellectual background to succeed in an industrial design graduate program.

The Bachelor of Science in Industrial Design Studies is a three semester program beginning in the summer semester. Students are allowed to proceed into the fall semester professional program if their grade average accumulated during the summer semester is a 70-percent or higher.

**Curriculum in Industrial Design - Post-Baccalaureate Industrial Design Studies**

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Hours</th>
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<tr>
<td>Core Science</td>
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<tr>
<td>INDD 2110 Two Dimensional Industrial Design Principles</td>
<td>6</td>
<td>Study Abroad- optional</td>
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<tr>
<td>INDD 2120 Computer and Design Communications</td>
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<td>INDD 2210 Three Dimensional Industrial Design Principles</td>
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<td>INDD 2130 Presentation Rendering</td>
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<td>INDD 2220 Anthropometry</td>
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<tr>
<td>INDD 2230 History of Industrial Design</td>
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<tr>
<td>Core Humanities</td>
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<td>Core Social Science</td>
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</tr>
<tr>
<td>INDD 3110 Exhibit and Packaging</td>
<td>6</td>
<td>INDD 3210 Product Design</td>
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<tr>
<td>INDD 3120 Industrial Design Methods</td>
<td>3</td>
<td>INDD 3220 Materials and Technology</td>
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</tr>
<tr>
<td>INDD 3130 Basic Photography for Industrial Design</td>
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<td>INDD 3230 Advanced Computer Aided Design</td>
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<td><strong>Total</strong></td>
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<tr>
<td>Core Literature (Humanities)</td>
<td>3</td>
<td>Core Humanities (Philosophy)</td>
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<tr>
<td>INDD 4110 Advanced Product Design</td>
<td>6</td>
<td>INDD 4210 Industrial Design Thesis</td>
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<tr>
<td>INDD 5120 Professional Portfolio</td>
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<td>INDD 4220 Professional Practice</td>
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<td>UNIV 4AA0 Creed to Succeed</td>
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<td><strong>Total</strong></td>
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* INDD 1120 is offered in both fall and spring semesters of each year.

Total Hours: 126
Students who complete the Bachelor of Science in Industrial Design Studies are strongly encouraged to continue in the Master of Industrial Design (M.IND) program. To do this, students must maintain a 3.0 in all industrial design courses, and apply to the Graduate School during the first weeks of the spring semester. During the last week of spring semester, students must prepare for the Post Baccalaureate Review (a display of representative work from all Industrial Design coursework that is evaluated by faculty). Students who do not pass this review are given additional course requirements to be completed before a second (and final) review can be scheduled. Once the Post Baccalaureate Review is successfully completed, and the Bachelor of Science in Industrial Design Studies degree is awarded, students can proceed with their application to the Graduate School. Please contact the CADC Office of Student Services for more information on this degree option and curriculum.

Curriculum in Industrial Design Studies – Post-Baccalaureate Industrial Design

Course requirements:

Summer:

- INDD 1310 Synthesis of Drawing 10 hrs
- INDD 1320 Prototype Fabrication 2 hrs
- INDD 1400 Careers in Industrial Design 2 hrs

Fall:

- INDD 2110 Two Dimensional Principles 6 hrs
- INDD 2120 Computer & Design Communications 3 hrs
- INDD 2130 Rendering 3 hrs
- INDD 3120 Industrial Design Methods 3 hrs

Spring:

- INDD 3210 Product Design 6 hrs
- INDD 3220 Materials & Technology 3 hrs
- INDD 2220 Anthropometry 3 hrs
- INDD 5960 Special Problems 1 hrs
- UNIV4AA0AR1 Graduation Check

Total Hours: 43

Minor in Industrial and Graphic Design Processes

15 credit hours

Professionals in today’s economy are frequently required to implement design innovation as a part of creating and sustaining a competitive advantage. The minor in Industrial and Graphic Design Processes equips students from diverse disciplines to work more effectively to advance design innovation within an organization. Through this program, students learn how to participate in the creative problem-solving process, explore multiple modes of visual communication, examine the roles that design plays in shaping modern culture, and better recognize opportunities to employ design as an innovation catalyst within industry.

Any student not enrolled as an INDD or GDES major may earn a minor in Industrial and Graphic Design Processes by completing designated classes within the School of Industrial and Graphic Design (SIGD). Students must have a cumulative GPA of 2.0 or higher in these courses to earn the minor. Students must first consult with an academic advisor from the College of Architecture, Design and Construction (CADC) to declare their intention of pursuing the minor of Industrial and Graphic Design Processes prior to enrolling in any INDD or GDES courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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Fall or Spring Prerequisite: The following course is required to begin a minor in Industrial and Graphic Design Processes: (3 credit hours)
Summer Coursework: Following the completion of INDD1120, students may select a minimum of 12 credit hours from the courses listed below:

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<tr>
<th>Course Code</th>
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<tr>
<td>INDD 2230</td>
<td>History of Industrial Design</td>
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<tr>
<td>INDD 3120</td>
<td>Industrial Design Methods</td>
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<tr>
<td>INDD 3130</td>
<td>Basic Photography for Industrial Design</td>
<td></td>
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<tr>
<td>INDD 3220</td>
<td>Materials and Technology</td>
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<td>INDD 4220</td>
<td>Professional Practice</td>
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<td>INDD 5960</td>
<td>Special Problems</td>
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<tr>
<td>GDES 3110</td>
<td>Elements &amp; Principles of Design I: Form and Composition</td>
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<td>GDES 3120</td>
<td>Elements &amp; Principles of Design II: Typography and Image</td>
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<tr>
<td>GDES 3220</td>
<td>Photo Communications</td>
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<tr>
<td>GDES 3130</td>
<td>Graphic Design Literacy: Message, Context, Meaning</td>
<td></td>
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<tr>
<td>GDES 3230</td>
<td>Letterpress Imaging</td>
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<tr>
<td>GDES 3240</td>
<td>Interactive Media</td>
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Total Hours 15

**McWhorter School of Building Science**

Students in the Building Science program learn the basic principles of science, architecture, engineering, business and construction. The four-year curriculum leads to the bachelor of science in building construction, accredited by the American Council for Construction Education. Graduates qualify for positions in all areas of the construction industry.

Students must maintain professional standards of behavior, as outlined in the Student Policy eHandbook, at all times while on university property and while participating in school-sponsored trips, events, and activities. Failure to do so may be grounds for dismissal from the program.

The Cooperative Education Program is offered after completing all requirements for the Professional Program.

Non-majors will be accepted in BSCI classes on a space-available basis.

Building Science is a multi-disciplinary program which combines a significant technical education with a broad background in business management related to construction. Auburn’s construction program is unique due to its leading edge information technology applications emphasis. This combination provides graduates a comprehensive foundation for success.

Entering Freshmen who meet the general admission requirements of Auburn University will be admitted to the Pre-Building Science program. Transfer students (external) may enter the Pre-Building Science program during fall, spring or summer semester during the first five class days of the semester and will be accepted on a space-available basis as determined by the school head. Minimum grade point average of 2.60 is required in 30 semester hours including English, History, Math (Calculus I), and a Natural Science with a lab (Trig-based Physics with lab) required in the first year of the model curriculum. Internal transfer students must be in good academic standing. A minimum grade point average of 2.60 is required for internal transfer students.

**Building Science Academic Standards and Policies**

To be considered for admission into the professional Building Science program (BSCI), the student must have completed all Pre-Building Science course work shown in the first two years of the BSCI curriculum model, and must have successfully completed a minimum of 60 semester hours. The school reserves the right to limit enrollment in the professional program (BSCI) based on calculated GPA and on available resources. It is possible to have less than the available number of positions filled if applicants do not have a 2.60 formula GPA.

For the fall and summer semesters, thirty students are chosen in rank order based upon the formula GPA calculation described in the Building Science Academic Standards and based upon a minimum 2.60 formula GPA. Exceptions to this minimum GPA are only available through the school head, and shall be only considered with extenuating circumstances. Please see a CADC advisor for a full copy of the BSCI Academic Standards. For the spring semester, sixty students are chosen in rank order based upon the formula GPA calculation described in the Building Science Academic Standards and based upon a minimum 2.60 formula GPA. No preference will be given to either first-time or repeat applicants.
After being admitted into the professional program, any student receiving a grade below C in any 3000- or 4000-level BSCI course, or any student whose cumulative GPA falls below 2.50, will be reviewed by the School Academic Standards Committee for approval to continue in the program. Any student who is reviewed may be required to repeat a course or to withdraw from the program.

**Major**

- Building Science (p. 37)

### Building Science Courses

**BSCI 1100 INTRODUCTION TO CONSTRUCTION (3)** LEC. 3. Introduction to construction industry and education, current issues, and career opportunities.

**BSCI 2200 CONSTRUCTION DOCUMENTS (3)** LEC. 2. LAB. 3. Pr. BSCI 2300. Reading and interpreting working drawings, specifications, shop drawings, and digital 3D models for use in estimating and administering various types of construction projects.

**BSCI 2300 CONSTRUCTION METHODS AND MATERIALS (3)** LEC. 3. Materials, methods and construction equipment used in the construction of buildings.

**BSCI 2400 STRUCTURES OF BUILDINGS I (3)** LEC. 3. Pr. (PHYS 1500 or PHYS 1600) and (MATH 1610 or MATH 1150). Principles of mechanics and materials behavior related to building structures. Includes force systems, frame analysis, gravity load tracing, wind and seismic resistance for concrete and steel buildings.

**BSCI 3200 CONSTRUCTION COMMUNICATION (3)** LEC. 3. Overview of communication skills and tools required to succeed as a construction manager. Oral communication, written communication, ethics, visual literacy, and video capture in the context of construction risk management.

**BSCI 3300 FIELD SURVEYING (2)** LEC. 1. LAB. 6. Surveying techniques, construction layout, use of equipment, and dimensional controls for buildings. Surveying camp, a concentrated, 10 working day course held during breaks.

**BSCI 3400 STRUCTURES FOR ARCHITECTS II (3)** LEC. 3. Pr. BSCI 2400. Primary and secondary member design, connection design, temporary bracing/shoring, and steel shop drawing review.

**BSCI 3440 STRUCTURES OF BUILDINGS II (3)** LEC. 3. Pr. BSCI 2400. Principles of static equilibrium and materials behavior related to building structures. Includes force systems, frame analysis, section properties, stress, basic design of structural elements in buildings.

**BSCI 3450 STRUCTURES FOR ARCHITECTS III (3)** LEC. 3. Pr. BSCI 3400. Introduction to the design of reinforced concrete and related formwork including beams, columns, slabs, footings, retaining walls, and pre-stressed members.

**BSCI 3450 STRUCTURES FOR ARCHITECTS III (3)** LEC. 3. Pr. BSCI 3400. Introduction to the design of reinforced concrete and related formwork including beams, columns, slabs, footings, retaining walls, and pre-stressed members.

**BSCI 3500 CONSTRUCTION AND INFORMATION TECHNOLOGY I (3)** LEC. 2. LAB. 2. To explore, discover and create applications of information communication technology (ICT) for Construction Processes.

**BSCI 3600 ESTIMATING AND COSTING (4)** LEC. 3. LAB. 3. BSCI Major. Introduction to construction estimating for CSI Divisions 1-33. Students perform quantity take-off (QTO), pricing, and preparation for a commercial construction project using computer-based techniques.

**BSCI 3660 PRECONSTRUCTION AND PROJECT MANAGEMENT (4)** LEC. 3. LAB. 2. Pr. BSCI 3600. Project(s) simulation as a context to discuss, negotiated procurement, pre-construction services in the alternative delivery environment and construction phase management procedures.

**BSCI 3700 CONSTRUCTION SAFETY (3)** LEC. 3. Construction safety, including OSHA guidelines, accident investigation, and the creating of construction safety plans and worker training program.

**BSCI 3800 CONTRACTING BUSINESS (4)** LEC. 4. Pr. BSCI 3600. Construction-specific look at the business functions associated with the industry; includes organizational structures, construction finance, risk analysis, construction contracts, project delivery, and associated documents with these functions.

**BSCI 3910 EXPERIMENTAL LEARNING (3)** LEC. 3. SU. Departmental approval. Requires daily log and employer certification.
BSCI 4200 RESIDENTIAL CONSTRUCTION (3) LEC. 3. Provides an overview of residential construction and development practices and professional issues including: local ordinances and codes, land use law, financing practices, architect-builder relationship, spec homes vs. custom homes, etc.

BSCI 4300 COMBINED ESTIMATING AND SCHEDULING FOR DESIGNERS (3) LEC. 3. Provides an overview of estimating and project planning practices and techniques which relate to interactions between the architect and constructor. Includes: sources of project costs, conceptual estimating, value engineering, CPM scheduling, cost of acceleration and delays, change order, etc.

BSCI 4350 CONSTRUCTION PROJECT ANALYSIS (3) LEC. 3. Pr. BSCI 3660. Analysis of methods, materials and equipment used to construct projects. Methods used to assure the quality of construction projects.

BSCI 4360 CONSTRUCTION FIELD LAB (2) LAB. 4. Pr. BSCI 3700 and BSCI 3660. Students conduct a service learning project to integrate all components of the construction process.

BSCI 4410 PROBLEMS IN CONSTRUCTION MEANS AND METHODS (3) LEC. 2. LAB. 2. Pr. BSCI 3660. Solving challenging problems encountered in construction processes, including form work, scaffolding, framing, steel erection, rigging, lifting, safety, and site management.

BSCI 4420 MANAGEMENT FOR CONSTRUCTION SUPERINTENDENTS (3) LEC. 1. LAB. 4. Pr. BSCI 3660. Senior Standing in Building Science. Development of expanded management strategies for construction superintendents including field conditions analysis, direction of tradesmen, communication skills, and project hoisting and equipment.

BSCI 4500 INFORMATION AND COMMUNICATION TECHNOLOGY FOR CONSTRUCTION II (3) LEC. 2. LAB. 2. To recognize, experiment and practice the applications of advanced information and communication technology (ICT) for Construction Processes.

BSCI 4610 SCHEDULING AND FIELD OPERATIONS (4) LEC. 4. Pr. BSCI 3660. The third of a sequence of three project controls classes (BSCI 3600 and BSCI 3660); an in-depth study of construction project sequencing and scheduling, jobsite cost control measures, construction cash flow analysis, and a variety of leadership and management issues associated with field operations.

BSCI 4700 MECHANICAL SYSTEMS IN BUILDINGS (3) LEC. 2. LAB. 2. Pr. BSCI 3500 and BSCI 3600. Overview of the plumbing and mechanical systems of buildings. Basic design, sustainability concepts, systems, installation and testing are covered.

BSCI 4710 MECHANICAL CONSTRUCTION ESTIMATING AND MANAGEMENT (3) LEC. 2. LAB. 2. Pr. BSCI 4700. Advance study of mechanical construction industry. Study and application of design principles, estimating and management techniques used in the industry.

BSCI 4750 ELECTRICAL SYSTEMS IN BUILDINGS (3) LEC. 2. LAB. 2. Pr. BSCI 3500. Electrical systems commonly used in buildings; basic theory and design concepts, with emphasis on lighting and electrical distribution equipment and its installation.

BSCI 4850 CONSTRUCTION LAW AND RISK MANAGEMENT (3) LEC. 3. Pr. BSCI 3660. Construction law, business law and risk management; the legal system and terminology, contracts, insurance, warranties, liens, environmental concerns, workplace issues, damages, and dispute resolution.

BSCI 4860 ADVANCED CONSTRUCTION INFORMATION TECHNOLOGY (3) LEC. 2. LAB. 2. Pr. BSCI 3660. Exploration and creation of advanced applications of Information and Communication Technology (ICT) for planning, decision making, projects monitoring, and controls.

BSCI 4870 CONSTRUCTION HISTORY (3) LEC. 3. Survey of historic construction projects to analyze how and why buildings and structures were constructed in the way they were.

BSCI 4880 CONSTRUCTION EQUIPMENT MANAGEMENT (3) LEC. 3. Pr. BSCI 3660. Construction equipment management and ownership. Equipment acquisition and disposition options, production costs and productivity, cost analysis and control, management staffing and responsibilities.

BSCI 4890 LEAN CONSTRUCTION PRINCIPLES AND PRACTICES (3) LEC. 3. Pr. BSCI 3660. This course provides an understanding of lean construction principles involving lean design, assembly, supply, production and work processes.

BSCI 4960 SPECIAL PROBLEMS (1-5) IND. Special problems in construction topics. Course may be repeated for a maximum of 5 credit hours.

BSCI 4990 BUILDING SCIENCE THESIS (4) LAB. 12. Individual project demonstrating mastery of curriculum content through the application of skills/knowledge to a theoretical construction company and project. Requires a written thesis and oral defense of work.
BSCI 5450 BUILDING GREAT STRUCTURES (3) LEC. 3. Departmental approval. Conceptual Analysis of a variety of structural systems using observation and modeling of the world's greatest structures. Emphasis on construction innovations necessary to build these structures. May count either BSCI 5450 or BSCI 6450.

BSCI 5460 PLANNING AND DECISION MAKING IN CONSTRUCTION (3) LEC. 3. Pr. BSCI 3660. Applications of quantitative methods in various phases of project life cycle to assist project stakeholders in making effective planning and informed decision making. Departmental approval. May count either BSCI 5460 or BSCI 6460.

BSCI 5470 SMALL UNMANNED AIRCRAFT SYSTEMS IN CONSTRUCTION (3) LEC. 45. Departmental consent. Overview of FAA requirements including hands on training with small unmanned aerial systems and associated software focused on applications in construction.

BSCI 5830 GLOBAL CONSTRUCTION MANAGEMENT (3) LEC. 3. This course will discuss global construction issues and related project management practices. Departmental approval. May count either BSCI 5830 or BSCI 6830.

BSCI 5840 MULTI-CULTURAL ISSUES IN CONSTRUCTION (3) LEC.

BSCI 5960 SPECIAL PROBLEMS (1-5) AAB. Departmental approval. Special problems in construction topics. Offered only at the discretion of the department head. Course may be repeated for a maximum of 5 credit hours.

BSCI 5970 SPECIAL TOPICS IN CONSTRUCTION (1-3) AAB. 1-3. Departmental approval. Special topics in construction focuses on topics in Building Science that are in addition to the regular curriculum. Offered only at the discretion of the department head. Course may be repeated for a maximum of 6 credit hours.

BSCI 6450 BUILDING GREAT STRUCTURES (3) LEC. 3. Conceptual Analysis of a variety of structural systems using observation and modeling of the world's greatest structures. Emphasis on construction innovations necessary to build these structures. May count either BSCI 5450 or BSCI 6450.

BSCI 6460/6466 PLANNING AND DECISION MAKING IN CONSTRUCTION (3) LEC. 3. Applications of quantitative methods in various phases of project life cycle to assist project stakeholders in making effective planning and informed decision making. Departmental approval. May count either BSCI 5460 or BSCI 6460.

BSCI 6470 SMALL UNMANNED AIRCRAFT SYSTEMS IN CONSTRUCTION (3) LEC. 3. Overview of FAA requirements including hands on training with small unmanned aerial systems and associated software focused on applications in construction.

BSCI 6830 GLOBAL CONSTRUCTION MANAGEMENT (3) LEC. 3. This course will discuss global construction issues and related project management practices. Departmental approval. May count either BSCI 5830 or BSCI 6830.

BSCI 6840 MULTI-CULTURAL ISSUES IN CONSTRUCTION LABOR (3) LEC. 3.

BSCI 6960 SPECIAL PROBLEMS IN CONSTRUCTION (1-5) AAB. Departmental approval. Individually proposed problems or projects related to the construction industry. Students must prepare a written proposal with defined deliverables. Course may be repeated for a maximum of 5 credit hours.

BSCI 6970 SPECIAL TOPICS IN CONSTRUCTION (1-3) AAB. 1-3. Departmental approval. Special topics in construction focuses on topics in Building Science that are in addition to the regular curriculum. Course may be repeated for a maximum of 3 credit hours.

BSCI 7010 CONSTRUCTION LABOR AND PRODUCTIVITY (3) LEC. 3. Departmental approval. Construction labor issues, productivity measurement, and productivity improvement in the construction industry. Includes reading, research, and an out of class project.

BSCI 7020/7026 INTEGRATED BUILDING PROCESSES I (3) LEC. 3. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner's perspective, the financial parameters, and the speculative demand driving project viability.

BSCI 7030/7036 CONSTRUCTION INFORMATION MANAGEMENT (3) LEC. 3. Applications of advanced information technology in construction.

BSCI 7040/7046 INTEGRATED BUILDING PROCESSES II (3) LEC. 3. Departmental approval. Construction project delivery, from pre-construction service through ownership. Topics include project management, pre-construction services, pre-planning, procurement, site utilization, subcontracts, commissioning, closeout, building operation, and long-term ownership.
BSCI 7050/7056 EXECUTIVE ISSUES IN CONSTRUCTION (3) LEC. 3. Construction industry executives will present 6 to 10 topics that represent a cross-section of significant management issues.

BSCI 7060 RESEARCH METHODS IN BUILDING SCIENCE (3) LEC. 3. A study of the academic research process, with an emphasis on defining research problems in construction and the development of a research proposal.

BSCI 7100/7106 GRADUATE ELECTIVE IN PROJECT MANAGEMENT: PROJECT MANAGEMENT AND SCHEDULING (3) LEC. 3. This course develops advanced student knowledge and skills in construction business facets such as delivery, contracts and financial management; and develops tactile skills in producing advanced construction schedules in current software applications. Credit will not be given for both BSCI 7100 and BSCI 7106. Course may be repeated with change in topics.


BSCI 7126 CONSTRUCTION LAW AND RISK MANAGEMENT (3) LEC. 3. Construction law, business law and risk management; the legal system and terminology, contracts, insurance, warranties, liens, environmental concerns, workplace issues, damages and dispute resolution. Admission to Certificate in Construction Management.


BSCI 7156 HEAVY CIVIL CONSTRUCTION (3) LEC. 3. Students must be admitted to the Executive Integrated Processes Certificate in Construction Management. Principles of heavy civil construction including budget, planning, excavation, haul, equipment, temporary structures and types of projects involved.

BSCI 7200 ELECTIVES IN CONSTRUCTION LABOR (3) LEC. 3. Departmental approval. Special course offerings related to construction labor topics. Course may be repeated with change in topic.

BSCI 7300 ELECTIVES IN INFORMATION TECHNOLOGY AND INNOVATION (3) LEC. 3. Departmental approval. Special course offerings related to information technology, innovation, and robotics in construction. Course may be repeated with change in topic.

BSCI 7900 DIRECTED READING IN CONST (1-3) IND. Departmental approval. Individually proposed exploration of a construction industry related topic not covered in existing course offerings. Students must prepare a written proposal of the topic. Course may be repeated for a maximum of 3 credit hours.

BSCI 7950 GRADUATE SEMINAR (1) SEM. 1. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner’s perspective, the financial parameters, and the speculative demand driving project viability. Course may be repeated for a maximum of 3 credit hours.

BSCI 7980/7986 CAPSTONE PROJECT (3) LAB. 6. Departmental approval. Independent exploration of an approved topic with final written report of findings and an oral defense of the work. Specific capstone project requirements are established by the supervising committee and vary based on the chosen topic.

BSCI 8060 ADVANCED RESEARCH METHODS IN BUILDING SCIENCE-I (3) LEC. 3. Current areas and topics of research in building construction, study of academic research process, defining a research problem, develop effective search and analytical evaluation skills of published literature, analyze research products and write a comprehensive review of literature, and understand ethical principles and methods to successfully carry out research projects. The course is designed to provide a comprehensive introduction to the doctoral research process and methods used in building construction research.

BSCI 8070 ADVANCED RESEARCH METHODS IN BUILDING SCIENCE-II (3) LEC. 3. A study of the practical skills necessary to produce and disseminate doctoral level research in Building Construction. The course is designed to provide comprehensive knowledge about research design and selecting an appropriate methodology, qualitative, quantitative and mixed data collection and analysis methods appropriate for Building Construction research, research validation techniques, and technical writing strategies appropriate for a PhD dissertation.
BSCI 8950 DISSERTATION SEMINAR (1) LEC. 1. Professional and social integration into doctoral program; enhancement of professional knowledge through structured inquiry, professional dialogue, and reflective thinking; and preparation of students to develop pedagogical skills. Departmental Permission Required. Course may be repeated for a maximum of 6 credit hours.

BSCI 8990 RESEARCH AND DISSERTATION (1-10) LEC. 1-10, DSR. 0. Individual doctoral dissertation research. May be repeated for credit. Course may be repeated with change in topics.

DBLD Courses

DBLD 5620 DESIGN CONSTRUCTION STUDIO (6) LEC. 6. Pr. ARCH 4020. Second of three-studio progression. Skills associated with formation and schematic design phases of architectural project, with emphasis on rigorous design research methods, program development, and interdisciplinary team collaboration. Project initiated in 5620/6620 continues in subsequent semester.

DBLD 5640 SUSTAINABILITY FOR INTEGRATED PROJECT DELIVERY (3) LEC. 3. Departmental approval. Principles, terminology, and methods of sustainable design and construction, with emphasis on role of interdisciplinary design collaboration.

DBLD 6620 DESIGN CONSTRUCTION STUDIO (6) LEC. 6. Pr. DBLD 6610. Second of three-studio progression. Skills associated with formation and schematic design phases of architectural project, with emphasis on rigorous design research methods, program development, and interdisciplinary team collaboration. Project initiated in 5620/6620 continues in subsequent semester.

DBLD 6640 SUSTAINABILITY FOR INTEGRATED PROJECT DELIVERY (3) LEC. 3. Departmental approval. Principles, terminology, and methods of sustainable design and construction, with emphasis on role of interdisciplinary design collaboration.

DBLD 7020 INTEGRATED BUILDING PROCESSES I (3) LEC. 3. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner’s perspective, the financial parameters, and the speculative demand driving project viability.

DBLD 7030 CONSTRUCTION INFORMATION MANAGEMENT (3) LEC. 3. Applications of advanced information technology in construction.

DBLD 7040 INTEGRATED BUILDING PROCESSES II (3) LEC. 3. Departmental approval. Construction project delivery, from pre-construction service through ownership. Topics include project management, pre-construction services, pre-planning, procurement, site utilization, subcontracts, commissioning, closeout, building operation, and long-term ownership.

DBLD 7550 COLLABOR PROCESS DES CONSTRU (3) LEC. 3. Coreq. DBLD 7551 and DBLD 6620. Current integrated delivery models and decision-making strategies related to interface of design and construction disciplines from professional, contractual, and technological perspectives. Emphasis on risk quantification between parties involved in integrated delivery.

DBLD 7551 COLLABORATIVE PRACTICE LAB (1) LAB. 4. Pr. DBLD 6620. Coreq., DBLD 6620 (students in design track). Problem-solving exercises related to effective pre-construction practices employed by design and construction professionals.

DBLD 7630 DESIGN CONSTRUCTION SUMMARY COMPREHENSIVE STUDIO (7) LEC. 7. Pr. DBLD 6620 or (DBLD 7550 or DBLD 7551) or (BSCI 7550 or BSCI 7556). Third of three-studio progression. Development of design and construction for architectural project in interdisciplinary teams, including analysis of constructability, projected construction cost, and scheduling.

DBLD 7650 EXECUTIVE ISSUES (3) LAB. Individually proposed problems or projects related to the construction industry. Students must prepare a written proposal with defined deliverables.

DBLD 7950 GRADUATE SEMINAR (1) SEM. 1. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner’s perspective, the financial parameters, and the speculative demand driving project viability. Course may be repeated for a maximum of 3 credit hours.

Curriculum in Building Science

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<tr>
<th>Freshman</th>
<th>Fall Hours</th>
<th>Spring Hours</th>
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<td>BSCI 2300 Construction Methods and Materials</td>
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<td>HIST 1020/1027 World History II</td>
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### Curriculum in Building Science

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<td>ECON 2030 Principles of Macroeconomics</td>
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<td>BSCI 3500 Construction and Information Technology I</td>
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<td>BSCI 3700 Construction Safety</td>
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<td>BSCI 4610 Scheduling and Field Operations</td>
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**Total Hours: 120**

1. **Construction Elective:**
   Students can choose from: BSCI 4410, BSCI 4420, BSCI 4710, BSCI 4860, BSCI 4870, BSCI 4880, BSCI 4890, BSCI 4960, BSCI 5450, BSCI 5460, BSCI 5470, BSCI 5830, BSCI 5840, BSCI 5960, BSCI 5970

2. MNGT 3100 Principles of Management may be substituted for MNGT 3810 Management Foundations.
School of Architecture, Planning, and Landscape Architecture

The Bachelor of Architecture degree is awarded upon the completion of the five-year curriculum. Qualified students may elect to pursue concurrently a second bachelor of interior architecture degree.

In the United States, most state registration boards require a degree from an accredited professional degree program as a pre-requisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six, three or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, that when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree. Auburn's next accreditation visit for the architecture program is in 2018.

Auburn University, School of Architecture, Planning, and Landscape Architecture offers the following NAAB-accredited degree program: Bachelor of Architecture (159 credits). The four-year pre-professional Bachelor of Science in Environmental Design is not a professionally accredited degree.

Auburn University is a member of the Association of Collegiate Schools of Architecture.

Students are encouraged to work at an architect’s office, on a construction site or in another approved professional endeavor prior to their fourth year.

The bachelor of interior architecture degree program offers a holistic approach to design that focuses on the relationship between interior and exterior space. Interior Architecture students develop enhanced critical thinking abilities in relation to the construction of space, progressive materiality, sustainability, and representation. Auburn has integrated Interior Architecture and Architecture in this unique program resulting in the granting of two degrees upon completion of the fifth year of study. It is not possible to get the undergraduate degree in interior architecture without the dual Architecture professional degree. Architecture students must apply separately to the Interior Architecture Program through a competitive application process. The graduate who receives a bachelor of interior architecture degree and a bachelor of architecture degree is a person trained in interior architecture and architecture who is qualified to sit for an Architectural License Exam after completing IDP and then sit for the NCDIQ Exam for Interiors, based on a transcript review. See advisor for details.

Architecture Academic Standards and Policies

Enrollment in the second year studios is limited and eligibility for acceptance to Architecture and Interior Architecture is based on performance in courses in the first year of the model curriculum. The Architecture Program offers two options for completing the Pre-Architecture first year of the model curriculum: the Foundation Unit Studio sequence and the Summer Design Studio sequence. Placement of Pre-Architecture students into either of these entry sequences is determined by an Architecture Program committee. Information regarding the entry sequence placement process will be mailed to all Pre-Architecture students who have been admitted to Auburn on or before a date in early February 1 preceding fall term entry. Students not participating in the Foundation Unit Studio have the opportunity to be selected to enter the design studio sequence in the summer term after their first year of enrollment. Placement in the Foundation Unit Studio Sequence will be communicated prior to Camp War Eagle. Pre-Architecture students must receive an “S” in ARCH 1000, ARCH 1010, and ARCH 1060 prior to being admitted to the ARCH 1020/ARCH 1420 course sequence. Students accepted into the Foundation Unit Studio sequence may not defer their acceptance to another academic year. Students that fail to successfully complete the fall semester studio sequence, or students not accepted into the Second Year Studio sequence at the end of the spring semester, will not be readmitted to the Foundation Unit Program. These students may elect to participate in the following Summer Design Studio session and will be required to participate in the entire summer program. Eligibility is dependent upon Summer Design criteria.

Auburn University students who successfully complete 27 hours, pass ARCH 1000, General Physics I, and Calculus I or Pre-Calculus, Algebra, Trigonometry, and achieve a minimum cumulative institutional GPA of 2.80 are eligible to be accepted into Summer Design. In the event that all available Summer Design seats are not filled based on the stated criteria, the committee may opt to fill the remaining
seats based on academic performance of the applicants. Summer Design Studio sequence is divided into two sessions. During the course of the first session each student’s work is periodically ranked relative to her/his peers. At the end of the first session the students with the highest rank-in-class are accepted into Session Two, subject to available space. Students not accepted to the Second Year Studio may elect to retake the entire sequence of courses during the following Summer Design Session if they meet the admission criteria or they may elect to change majors.

Admission to the Second Year Studio sequence is predicated on the receipt of a grade of C or better in both ARCH 1020 and ARCH 1420. The Grade Adjustment Policy may not be used to progress to Second Year Studio.

In the event a grade of D or F is received in any required course in the major, a review is required for continuance in the program. Based on the outcome of this review, a student may be required to repeat the course or, in the case of design studios, the entire studio sequence for that respective year-level. Students receiving a second D when repeating a required course will be reviewed for continuance in the program. Similarly, a student receiving a majority of grades of C or poorer may be reviewed for continuance in the program.

Students must maintain professional standards of behavior, as outlined in the Student Policy eHandbook (http://www.auburn.edu/student_info/student_policies/), at all times while on university property and while participating in school sponsored trips, events, and activities. Failure to do so may be grounds for dismissal from the program.

To proceed to the beginning sequence of design studio at third, fourth, or fifth year levels, the student must have completed all required prerequisite courses for that respective year-level, as indicated in the model curriculum. Enrollment in 3000-level BSCI courses will be limited to those students with a GPA of 2.50 or above and second-year standing in design studio.

Architecture Transfer Students

Transfer students in Architecture must meet the minimum requirements as set by Auburn University to be admitted to the College of Architecture, Design and Construction. They will be advised to begin with the Summer Design Studio Sequence. Transfer students must also meet the minimum qualifications for admission to Summer Design. Transfer students should contact CADC Student Services no later than January to request a space in the Summer Design Studio.

Foundation Unit Studio placement for transfer candidates is determined each year by the school head, the Architecture program chair, the First-Year Program coordinator and a representative from the Office of Student Services. Up to 20 percent of Foundation Unit Studio positions may be reserved for transfers each year; however, the positions will only be filled if the transferring student’s academic performance is competitive with the Foundation Unit Studio top tier ranking students from that academic year freshman admission round. It is possible to have a Foundation Unit Studio with no transfer students. Transfers accepted into the Foundation Unit Studio Sequence may not defer their acceptance to another academic year.

Transfer students from NAAB-accredited architecture programs, in addition to meeting the minimum requirements as set by Auburn University, will be required to present a portfolio of their work to the Academic Review Committee (ARC) for evaluation. The ARC will determine the level of placement in the professional architecture design studio sequence or in the pre-architecture program.

Special Opportunities for Qualified Architecture and Interior Architecture Students

During the third year of design studio students may participate in at least one of a variety of field studies opportunities aimed at enriching students’ learning experience and preparing students for professional life. These opportunities include both an international studies program with a variety of options for study abroad as well as the possibility of participation in the Rural Studio - a program based in rural west Alabama where students engage local communities via hands-on service-learning projects to help meet needs of shelter and improved quality-of-life or Urban Studies - program based in Birmingham, Alabama where students engage in problems unique to the urban surroundings. In addition to the required third year opportunities, students may have additional opportunities during their fifth year of study to participate in the Rural Studio or the Auburn Center for Architecture and Urban Studies - a design center in downtown Birmingham where upper-level students and faculty engage in community-centered, service-learning activities. Participation in each of these programs is limited, and students may be allowed to participate based on academic standing, available resources, and a competitive selection process.

Professional internships with practicing architects are recommended prior to the last year of study.

Architecture/Interior Architecture (ARIA) Academic Standards and Admission Policy
Participation in the Interior Architecture (ARIA) program is highly selective. Students are eligible to apply for the Interior Architecture program in the spring of their second year of the Architecture Program. This policy allows for a summer ARIA thesis class size based on yearly available faculty resources.

**Spring semester applications (2nd year students)**

The Interior Architecture faculty will make a selection of second year students at the end of Spring semester. Class size is based on available faculty resources and may vary each year. These students will initially participate in the ARIA-designated Third Year Fall Semester Studio. Selection of students is based primarily on the ARIA faculty-comprised Admission Board’s assessment of submitted design work. The assessment will be based on the students’ statements of intent and on three projects that demonstrate a high quality of design ability. A high quality of design ability is considered to be an indication of an applicant’s capability to take on the extra degree requirements of the ARIA degree. Additionally, it is required that accepted students have completed their appropriate studio coursework and maintain a minimum 3.0 GPA for conditional acceptance into the ARIA dual degree program. The students must maintain a minimum of a 3.0 GPA in their studio coursework during the third and fourth year to proceed into the ARIA Summer Thesis semester. If a 3.0 studio GPA is not maintained, a review by the ARIA Admissions Board will be required to determine a student’s eligibility to continue in the program.

**Major**

- Architecture
  - Architecture (Foundation Unit) (p. 51)
  - Architecture (Summer Design) (p. 52)
- Architecture/Interior Architecture
  - Architecture/Interior Architecture (Foundation Unit) (p. 54)
  - Architecture/Interior Architecture (Summer Design) (p. 56)
- Environmental Design (p. 58)
- Environmental Design-Pre-Landscape Architecture (p. 60)
- Environmental Design (http://bulletin.auburn.edu/undergraduate/collegeofarchitecture/designandconconstruction/environmentaldesign_minor/)
- Industrial and Graphic Design Processes (p. 31)
- History of Architecture and the Built Environment (p. 58)

**Architecture Courses**

**ARCH 1000 CAREERS IN DESIGN AND CONSTRUCTION (1)** LEC. 1, LST. 1. Introduction to the environmental design and construction professions and the curricula in the chosen field.

**ARCH 1010 INTRODUCTION TO ARCHITECTURE DESIGN (6)** LEC/STU. 12. Coreq. ARCH 1060. Principles of visual organization, research and design process skills, and the graphic communication of form and ideas.

**ARCH 1020 INTRODUCTION TO ARCHITECTURE DESIGN II (6)** LEC. 6, LST. 12. Pr. ARCH 1010 and ARCH 1000 and ARCH 1060. Coreq. ARCH 1420. Principles of visual organization, research and design process skills, and the graphic communication of form and ideas.

**ARCH 1060 VISUAL COMMUNICATION (2)** LEC/STU. 2. Introduction to graphic communication. Focus on developing graphic skills for the purpose of explaining form and communicating ideas via exercises in drafting, sketching, and diagramming.

**ARCH 1420 INTRODUCTION TO DIGITAL MEDIA (3)** LEC. 3, LST. 0. Pr. ARCH 1060. Introduction to the principles of 2-D and 3-D digital media and how these principles are utilized in architectural design.

**ARCH 2010 STUDIO I (6)** LEC. 2, LST. 10. Pr. ARCH 1020 and ARCH 1420. Basic issues of architectural design centered around the thoughtful creation of exterior and interior space. Studies of light, material, texture, proportion, scale, and site are integrated into each project.

**ARCH 2020 STUDIO II (6)** LEC. 2, LST. 10. Pr. ARCH 2010. Fundamental design process skills including observation, analysis, and synthesis.
ARCH 2110 HISTORY OF WORLD ARCHITECTURE I (3) LEC. 3. Pr. ARCH 1020. Examination of the social determinants that shape the public beliefs and practices that produce buildings.

ARCH 2117 HONORS ARCHITECTURAL HISTORY I: HISTORY OF THE BUILT ENVIRONMENT (3) LEC. 3. Pr. Honors College, ARCH 1010. Examination of the social determinants that shape the public beliefs and practices that produce buildings.

ARCH 2210 ENVIRONMENTAL CONTROLS I (3) LEC. 3. Pr. ARCH 1020. This course provides the basic knowledge and skills requisite an architect in the design of environmentally responsive buildings.

ARCH 2220 ENVIRONMENTAL CONTROLS II (3) LEC. 3. Pr. ARCH 1020. This course provides the basic knowledge and skills requisite an architect in the design of environmentally responsive buildings.

ARCH 2600 THE ART OF ARCHITECTURE, PLACE, AND CULTURE (3) LEC. 3. The interrelationship of art, architecture, place, and culture with emphasis on the art of architecture from a global multicultural perspective. Illustrated lecture, readings, and essays.

ARCH 3010 STUDIO III (6) LEC. 2, LST. 10. Pr. ARCH 2020 and ARCH 3110. Builds on ARCH 2010 and 2020. The process of making architecture through critical inquiry and investigation. The physical, social, ethical contexts that inform the design of every building.

ARCH 3020 STUDIO IV (6) LEC. 2, AAB/LST. 10. Pr. ARCH 3010 or ARIA 3020. Builds on ARCH 3010 and adds an emphasis on the integration of construction tectonics in the development of architectural form.

ARCH 3110 HISTORY OF WORLD ARCHITECTURE II (3) LEC. 3. Pr. ARCH 2110 or ARCH 2117. Introduction to key European buildings and towns from the Bronze Age to the Enlightenment. Examines how societal beliefs and practices influence the making of architecture.

ARCH 3120 HISTORY OF MODERN ARCHITECTURE (3) LEC. 3. Pr. ARCH 3110. The history of architecture, 1850-present, with an emphasis on the rise of the modern movement in Europe and the U.S.

ARCH 3200 MATERIALS AND METHODS OF CONSTRUCTION I (3) LEC. 3. Pr. ARCH 1020. The properties and potential design function of materials used in contemporary construction, with an emphasis on foundation systems, wood, and masonry.

ARCH 3410 DESSEIN ELECTIVES (3) LEC. 3. Explorations in the art of representation. Complete descriptions of specific courses and their prerequisites are available from the School of Architecture, Planning and Landscape Architecture Course may be repeated for a maximum of 9 credit hours.

ARCH 3500 SEMINAR IN METHODS AND PROCESSES (3) LEC. 3. Pr. ARCH 2020. The tools and techniques available to the design professional including specific design specializations, and design methodologies. Descriptions of specific seminars are available from the School of Architecture. Course may be repeated for a maximum of 9 credit hours.

ARCH 3600 SEMINAR IN CONTEMPORARY ISSUES (3) LEC. 3. Pr. ARCH 2020. Investigation of significant topics that present opportunities and constraints to architectural thought and practice. Course may be repeated for a maximum of 9 credit hours.

ARCH 3700 SEMINAR IN HISTORY AND THEORY (3) LEC. 3. Pr. ARCH 2010. Investigation of theories, schools or periods to examine the potential and limitations of architecture. Descriptions of specific seminars available from School of Architecture. Course may be repeated for a maximum of 9 credit hours.

ARCH 3710 SEMINAR IN HISTORICAL PERSPECTIVES (3) LEC. 3.

ARCH 3800 SEMINAR IN ASPECTS OF DESIGN (3) LEC. 3. Pr. ARCH 2020. Study of aspects of architectural design, such as form, space, style, meaning, perception, culture. Descriptions of specific seminars available from the School of Architecture. Course may be repeated for a maximum of 9 credit hours.

ARCH 4010 STUDIO V (6) LEC. 2, LST. 10. Pr. ARCH 3010 or ARIA 3020 and BSCI 3440. The comprehensive design of buildings, building complexes, and spaces in an urban context. Lectures emphasize urban issues, research methods. Programming and analysis will parallel studio projects of increasing complexity.

ARCH 4020 STUDIO VI (6) LEC. 2, AAB/LST. 10. Pr. ARCH 4010 or ARIA 4020. The design of buildings, building complexes, and spaces with emphasis on the integration of building systems and tectonic development.

ARCH 4110 HISTORY OF URBAN ARCHITECTURE (3) LEC. 3. Pr. ARCH 2110 or ARCH 2117 and ARCH 3110. The course surveys the history of the physical and formal manifestations of the urban environment from its inception to our days.
ARCH 4320 MATERIALS AND METHODS OF CONSTRUCTION II (3) LEC. 3. Pr. ARCH 3320. Properties and potential design applications of materials used in contemporary construction, with an emphasis on steel and concrete, roofing, glass and glazing, cladding, and interior finishes.

ARCH 4500 PROFESSIONAL PRACTICE (3) LEC. 3. Pr. ARCH 3020 or ARIA 3020. Architects' legal responsibilities, frameworks of professional practice, office organization, business planning, marketing, project delivery, internship and professional ethics and leadership.

ARCH 4900 DIRECTED STUDIES (1-6) AAB. Development of an area of special interest through independent study. Evaluation of the work may be by faculty jury. School approval. Course may be repeated for a maximum of 6 credit hours.

ARCH 4910 RURAL STUDIO COMPLETION (0) LEC. Completion of construction project for ARCH 4120 Elective Studio. This studio is based in the School's remote facilities in Newbern, AL.

ARCH 4960 SPECIAL PROBLEMS (1-6) LEC. Special problems Course may be repeated for a maximum of 6 credit hours.

ARCH 4997 HONORS THESIS (1-6) LEC. Pr. Honors College. Departmental approval. Course may be repeated for a maximum of 6 credit hours.


ARCH 5020 THESIS STUDIO (6) LEC. 6, AAB/LST. 13. Pr. ARCH 5010 and ARCH 5990. Exploration and development of an architectural project under the direction of a faculty member.

ARCH 5100 TEACHING METHODS (1) LEC. 1.

ARCH 5240 BEING THERE (1) LEC. 1. Course may be repeated for a maximum of 2 credit hours.

ARCH 5340 METHODS IN COMMUNITY BASED LEARNING (3) LEC. 3.

ARCH 5990 INTRODUCTION TO THESIS RESEARCH (2) LEC. 2. The tools, techniques, and strategies required to select, develop, refine, write, and present a thesis argument.

ARCH 5991 THESIS RESEARCH (1) LEC. 1. Pr. ARCH 5990. Expansion on the individual thesis argument and research begun in ARCH 5990 in parallel with the development of their thesis design project in ARCH 5020.

ARCH 7010 FALL STUDIO (6) STU. 12. This is one of three design studios in which the aspects of community need, context, technical systems, and building materials are explored to develop a schematic, client-driven architectural proposal.

ARCH 7020 SPRING STUDIO (6) STU. 12. This is one of three design studios in which the aspects of community need, context, technical systems, and building materials are explored to develop a client-driven architectural proposal.

ARCH 7030 SUMMER STUDIO (6) STU. 12. This is one of three design studios in which the aspects of community need, context, technical systems, and building materials are explored to develop a client-driven architectural proposal.

ARCH 7110 SEMINAR IN COLLABORATIVE DESIGN METHODS AND PROCESS (3) SEM. 3. Introduction to the core theories of collaboration within interdisciplinary design and construction project teams teams and community-based client groups. Students develop an understanding of the fundamentals of collaborative process design, principles negotiation, communication across disciplines, and conflict resolution.

ARCH 7120 SEMINAR IN DESIGN TECTONICS (3) SEM. 3. Taught as a series of workshops, this course provides the disciplinary framework necessary to apply technical research methods when evaluating options and reconciling the implications of design development decisions across systems and scales.

ARCH 7130 SEMINAR IN PROJECT COMMUNICATIONS (3) SEM. 3. This course provides the disciplinary framework necessary to develop all project documentation required for project construction, delivery, record keeping, as well as future research and analysis.

ARCH 7210 EXECUTIVE ISSUES: DISCIPLINARY FRAMEWORK (3) SEM. 3. Taught as a series “overlay” lectures and workshops. Provides the disciplinary framework to apply case study research methods when evaluating options and reconciling the implications of schematic design decisions across systems/scales.
ARCH 7220 EXECUTIVE ISSUES: RESEARCH METHODS (3) SEM. 3. Taught as a series "overlay" lectures and workshops. Provides the disciplinary framework necessary to apply case study research methods when evaluating options and reconciling the implications of design development decisions across systems/scales.

Interior Architecture Courses
ARIA 2150 ELEMENTS OF INTERIOR ARCH I (3) LEC. 3. The theory of design principles, aesthetics and concepts. Graphic drawings and models of interior spaces explored. Projects outside of class.

ARIA 2160 ELEMENTS OF INTERIOR ARCHITECTURE II (3) LEC. 3. The theory of design principles, aesthetics and concepts. Graphic drawings and models of interior spaces explored. Projects outside of class.


ARIA 4020 STUDIO 6A INTERIOR ARCHITECTURE (6) LEC. 2, LST. 10. Pr. ARCH 3020 and ARCH 3320 and (ARCH 2110 or ARCH 2117) and BSCI 3440. Parallels Architecture Studio 6, with emphasis on the development of interior architecture and spaces within an urban context. Consideration will be given to adaptive reuse.

ARIA 4030 INTERIOR ARCHITECTURE THESIS (6) LEC. 3, LST. 10. Pr. ARCH 4020. Coreq. ARIA 4080. Interior design project of the student's choice, under the direction of a faculty member.

ARIA 4080 INTERIOR ARCHITECTURE THESIS RESEARCH (2) LEC. 2. Pr. ARCH 4020. Research and writing of thesis documents, to include programming, site, and case studies.

ARIA 4450 INTERIOR ARCHITECTURE PROFESSIONAL PRACTICE (2) LEC. 2. Pr. ARCH 4020. Prepares student to enter professional office with an understanding of the skills, concepts and technical knowledge expected.

ARIA 4680 HISTORY AND THEORY OF INTERIOR ARCHITECTURE (3) LEC. 3. Pr. ARCH 4020. The theory and history of interior spaces, their social, material, and aesthetic development and their artifacts.

Environmental Design Courses
ENVD 2000 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES I (3) LEC. 3. Pr. ARCH 1000 or INDD 1120 or BSCI 1100. Or ENVD major. Core knowledge of design and construction disciplines and business practices related to human-designed environments. Includes national and global perspectives and focus on interdisciplinary studies.

ENVD 2007 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES I (3) LEC. 3. Pr. ARCH 1000 or INDD 1120 or BSCI 1100. Or ENVD major. Core knowledge of design and construction disciplines and business practices related to human-designed environments. Includes national and global perspectives and focus on interdisciplinary studies.

ENVD 2010 INTRODUCTION TO DESIGN AND DESIGN METHODS (3) LEC. 3. Introduces students to the importance of design and basic design methods.

ENVD 2040 DESIGN, INVENTION AND SOCIETY (3) LEC. 3. Role of design and invention in society from the ancient to the contemporary world.


ENVD 2200 READINGS IN LANDSCAPE ARCHITECTURE (3) SEM. 3. Investigates the idea of landscape through a range of texts, images, and built works that have helped form, and continue to shape, our understanding of the landscape. First year of B.ENVD.

ENVD 3000 ENVIRONMENTAL DESIGN CONCEPTS AND PRACTICES II (3) LEC. 3. Pr. ENVD 2100. Departmental approval. Advanced knowledge of design, construction and planning disciplines and practice. National/global environmental design issues, focus on interdisciplinary concepts, hybrid practices, & sustainability.

ENVD 3100 CIVIC ENGAGEMENT AND RESEARCH METHODS (3) LEC. 3. Pr. ENVD 3000. Departmental approval. Civic engagement and research methods for environmental design. This is a research prep course to develop research methods, projects, and community partnerships for summer ENVD 4100 workshop capstone.
ENVD 3200 SYSTEMS IN BUILT ENVIRONMENT I (3) SEM. 2.5. Pr. ENVD 2100. Focus on research of different systems in built environments, and different research methods that can be used in design in order to understand and represent them.

ENVD 3300 SYSTEMS IN BUILT ENVIRONMENT II (3) SEM. 2.5. Pr. ENVD 2100. Focuses on application of research from design and construction disciplines in built environment through testing and prototyping, thus exploring potential for application in a larger context.

ENVD 4000 ELEMENTS OF URBAN DESIGN (3) LEC. 3. Pr. ENVD 2100. ENVD 4000 provides environmental design students with an introduction to urban design theories, methods and processes through combination of lectures and hands-on instruction.

ENVD 4010 ELEMENTS OF DESIGN THINKING AND COMMUNICATION (3) LEC. 3. This is a 3-credit hour class that builds design communication skills through a series of projects that utilize both hand-rendering and digital media.

ENVD 4017 ELEMENTS OF DESIGN THINKING AND COMMUNICATION (3) LEC. 3. This is a 3-credit hour class that builds design communication skills through a series of projects that utilize both hand-rendering and digital media.

ENVD 4100 ENVIRONMENTAL DESIGN WORKSHOP II - CAPSTONE (6) LEC. 6. Pr. ENVD 3100. Environmental design knowledge & technical skill set using principles of collaboration, leadership & effectiveness training, hands-on experience, civic engagement & design communication skills.

ENVD 4500 PROFESSIONAL PRACTICE (3) SEM. 3. Pr. ENVD 3000. Enable students to learn elements of professional communication; create persuasive portfolio of their work; and to seek, and prepare for, internship and job opportunities.

ENVD 4900 DIRECTED STUDIES (3) IND. 3. Pr. ENVD 2100. Highly focused study (design research, design research application) in an area of interest to student that is approved by, and supervised by, a faculty member with such expertise. Must be in Junior or Senior status. Course may be repeated for a maximum of 6 credit hours.

ENVD 4920 INTERNSHIP IN ENVIRONMENTAL DESIGN (1) INT. 1. SU. Faculty Approval. Internship in the areas of environmental design, as approved by faculty supervisor.

ENVD 4970 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN (3) LEC. 3, AAB. 0. Topics include: digital production, portfolio making and design thinking. Course may be repeated for a maximum of 9 credit hours.

ENVD 4977 SPECIAL TOPICS IN ENVIRONMENTAL DESIGN (3) LEC. 3. Topics include: digital production, portfolio making and design thinking. Course may be repeated for a maximum of 9 credit hours.

ENVD 5030 STUDIES IN DESIGN THINKING AND ENTREPRENEURSHIP (3) SEM. 3. Study and application of design and innovation thinking in entrepreneurship, with a special emphasis on social entrepreneurship. May count either ENVD 5030 or ENVD 6030.

ENVD 5037 STUDIES IN DESIGN THINKING AND ENTREPRENEURSHIP (3) LEC. 3. Study and application of design and innovation thinking in entrepreneurship, with a special emphasis on social entrepreneurship. May count either ENVD 5030 or ENVD 6030.

Landscape Architecture Courses

LAND 1110 STUDIO I (4) LEC. 3. LAB. 1. Foundation course introduces studio culture, principles and processes of visual design, and the tools and techniques of landscape architectural design.

LAND 1160 GRAPHIC STUDIES I (2) LEC. 1. LAB. 1. Coreq. LAND 1110. Focuses on basic tools and techniques for interpreting and representing landscapes: photography, field sketching, technical drawing, and mixed-media montage.

LAND 1210 STUDIO II (4) LEC. 3. LAB. 1. Pr. LAND 1110. Foundation course builds fundamental design process skills by exploring terrain and ecology through design exercises on small sites.

LAND 1260 GRAPHIC STUDIES II (2) LEC. 1. LAB. 1. Pr. LAND 1160. Introduces integrated analog-digital workflows. Focus on digital methods and tools: photomontage, diagramming, and presentation assembly; digital modeling, analysis, and rendering.

LAND 2110 PLANTS AND CONSTRUCTION WORKSHOP I (5) LEC. 4. LAB. 1. Pr. LAND 1210. Uses a field- and project- based approach to engage the medium of landscape architecture (plants, land, soils, and materials).

LAND 2120 FIELDWORK I (1) FLD. 1. Pr. LAND 1210. Coreq. LAND 2110. Advances program focus on landscape experience. Introduces techniques and tools for site reconnaissance: direct measurement, observation, evaluation, and synthesis.
LAND 2140 HISTORY, THEORY, AND PRACTICE I (3) LEC. 3. The historical development of American urban landscapes, theoretical concepts for understanding them, and survey of related landscape architectural practice.

LAND 2210 PLANTS AND CONSTRUCTION WORKSHOP II (5) LEC. 4. LAB. 1. Pr. LAND 2110. Focuses on landscape expression, experience, and cycles, including plant ephemeralinity, material assemblies, maintenance, performance, and choreography of landscape experience.

LAND 2220 FIELDWORK II (1) FLD. 1. Coreq. LAND 2210. Considers phenological and environmental cycles, expression of plants, materials, and atmospheres to strengthen relationships between design intention and physical expression.

LAND 2240 HISTORY, THEORY, AND PRACTICE II (3) LEC. 3. Pr. LAND 2140. Survey of the history of and theory for landscape architectural practice as it relates to contemporary American culture.

LAND 3110 STUDIO III (5) LEC. 4. LAB. 1. Pr. LAND 2210. Advanced studio introduces design research processes to investigate ecocultural relationships between regional and urban scales with emphasis on landscape networks.

LAND 3120 FIELDWORK III (1) FLD. 1. Pr. LAND 3110. Coreq. LAND 3110. Expand techniques and tools for site reconnaissance: multiple site visits to develop skills, deepen inventories, and contextualize design projects.

LAND 3160 DYNAMIC SYSTEMS I (3) LEC. 3. Pr. LAND 2240. Establishes ecological theories as a framework for analysis of urban conditions and as a tool for decision-making and design.

LAND 3210 STUDIO IV (5) LEC. 4. LAB. 1. Pr. LAND 3110. Junior studio focused on processes to support design at multiple scales for resilient landscapes that integrate aesthetics, program, and performance.

LAND 3220 FIELDWORK IV (1) FLD. 1. Pr. LAND 3120. Coreq. LAND 3210. Expand techniques and tools for mapping large scale landscape systems. Develop documentation skills using aerial photogrammetry and advanced site visualization.

LAND 4110 STUDIO V (5) LEC. 4, LST. 1. Pr. LAND 3210. Comprehensive studio synthesizes skills toward landscape activism and engagement in cultural contexts of urban, ex-urban, or rural sites and systems.

LAND 4120 FIELDWORK V (1) LEC. 0, FLD. 1. Pr. LAND 3220. Coreq. LAND 4110. Apply comprehensive site reconnaissance skills to gather landscape intelligence. Engage community representatives to contextualize studio work.

LAND 4210 STUDIO VI (5) LEC. 4, LST. 1. Pr. LAND 4110. Comprehensive studio helps students develop sophisticated design research. Students create new work and critically evaluate its theoretical context.

LAND 4220 FIELDWORK VI (1) FLD. 1. Coreq. LAND 4210. Use broad skills, techniques, and thinking about site reconnaissance to frame design projects. Gather and synthesize comprehensive landscape intelligence.

LAND 4240 PROFESSIONAL PRACTICE (3) LEC. 0, SEM. 3. Surveys development and ethics of the landscape architecture profession, businesses, and practices, to help students plot their futures.

LAND 5030 LANDSCAPE DESIGN METHODS (3) LEC. 9. Introduces students to skills, techniques, and ways of thinking fundamental to landscape architectural design, preparing students for future studio courses by emphasizing making, precision, experimentation, iteration, and judgment.

LAND 5040 LANDSCAPE ISSUES & PRACTICES (3) LEC. 9. Introduces students to both a selection of key issues relevant to contemporary landscape architecture and practice employed by landscape architects engaging in those issues.

LAND 5110 BASIC LANDSCAPE ARCHITECTURAL DESIGN (6) STU. 12. Landscape architectural design studio emphasizing research, planning and design problems at neighborhood to community scales.

LAND 5130 STUDIO I: FOUNDATION STUDIO (5) STU. 5. Teaches foundational skills (drawing, modeling, and multiple representational skills) that are necessary to progress into future design studios.

LAND 5131 FIELDWORK I (1) FLD. 1. Field studies and travel related to studio. May count either LAND 5131 or LAND 6131.

LAND 5140 HISTORY, THEORY, AND PRACTICE I: LANDSCAPE ARCHITECTURE AND CONTEMPORARY URBANISM (3) SEM. 3. The historical development of American urban landscapes, theoretical concepts for understanding them, and survey of related landscape architectural practice.
LAND 5150 CONSTRUCTION I: LANDFORM & HYDROLOGY (3) LEC. 3. Departmental approval. Fundamental skills needed to analyze, understand, and manipulate landform with respect to form, grading, drainage, and stormwater management.

LAND 5160 GRAPHIC STUDIES I (2-3) LEC. Focus on basic tools and techniques for interpreting and representing landscapes: photography, field sketching, technical drawing, and mixed-media montage. Introduction to vector and raster-based software and integrated analog-digital workflows. Course may be repeated for a maximum of 3 credit hours.

LAND 5210 URBAN HOUSING STUDIO (6) STU. 12. Spatial/formal qualities of multi-unit housing utilizing the wealth of housing typologies erected in North America.

LAND 5230 STUDIO II (5) STU. 5. Iterative design processes that project and test design scenarios, refining propositions based on multiple performance criteria in relation to site specificity and community context. Departmental approval. May count either LAND 5230 or 6230.

LAND 5231 FIELDWORK II (1) FLD. 1. Field studies and travel related to studio. Departmental approval. May count either LAND 5231 or LAND 6231.

LAND 5240 HISTORY, THEORY, AND PRACTICE II: LANDSCAPE ARCHITECTURE AND CONTEMPORARY CULTURE (3) LEC. 3. Survey of the history of and theory for landscape architectural practice as it relates to contemporary American culture.

LAND 5250 CONSTRUCTION II: MATERIALS & DETAILING (3) LEC. 3. Departmental approval. Fundamentals of design detailing of site assemblies, with emphasis on material research and construction methods.

LAND 5260 GRAPHIC STUDIES III (3) SEM. 3. Pr. LAND 5150. Departmental approval. Fundamental concepts of Geographic Information Systems are used to create visual frameworks for gathering, interpreting, and sharing spatial data in landscape architecture practice.

LAND 5270 PLANT SPATIALITY (2) LEC. 2. Studies of innovative design with plants, exploring issues plant association, strata, and spatiality. Departmental approval. May count either LAND 5270 or 6270.

LAND 5280 LANDSCAPE ELEMENTS: EARTH, FIRE AND WATER (3) LEC. 3. Introduces students to the basic elements used in the design of the built landscape.

LAND 5290 GRAPHIC STUDIES II (3) LEC. 3. Focus on advanced digital methods and tools: mapping with GIS software; modeling, analysis, and rendering with Rhino and associated plugins; and photomontage, diagramming, and presentation assembly with Adobe software.

LAND 5310 INDEPENDENT STUDY THESIS (6) STU. 12. Departmental approval. Extensive exploration and development of a landscape architecture issue of the students choice beyond the level associated with entry to the profession. Level-III standing;

LAND 5330 STUDIO III (5) LEC. 5. Pr. (LAND 5230 or LAND 6230) or (P/C LAND 5331 or P/C LAND 6331). Departmental approval. Investigates eco-cultural relationships between regional, metropolitan and urban scales with emphasis on physical and social flows.

LAND 5331 FIELDWORK III (1) FLD. 1. SU. Pr. (LAND 6230 or LAND 5230) or (P/C LAND 5330 or P/C LAND 6330). Departmental approval. Field studies and travel related to studio.

LAND 5340 HISTORY, THEORY, AND PRACTICE III: PRE-MODERN LANDSCAPES (3) LEC. 3. Pr. LAND 5240. Departmental approval. Global history of landscape-making, particularly in relationship to urbanization and culture, from prehistory to the inception of modern landscape architecture.

LAND 5350 CONSTRUCTION III: HYDROLOGIES (2) LEC. 1. LAB. 2. Pr. LAND 5230. Departmental approval. This course emphasizes stormwater research, planning and design. Students learn technical skills and design techniques needed to construct projects with environmental integrity and aesthetic appeal.

LAND 5360 DYNAMIC SYSTEMS I: URBAN ECOLOGIES (3) LEC. 3. Pr. LAND 5230. Departmental approval. This course provides an overview of natural ecological systems and how they can be preserved or restored to enhance human and ecological health through sustainable design.

LAND 5370 PLANT EPHEMERALITY (2) LEC. 2. Pr. LAND 5230. Departmental approval. Studies of innovative design with plants, exploring issues of plant phenology and dynamic lifecycle conditions.
LAND 5380 PLANTS I (2-3) LEC. Departmental approval. Introduces strategies for innovative design with plants, exploring issues of plant association, start, form, and function. Course may be repeated for a maximum of 3 credit hours.

LAND 5410 SEMINAR ON REAL ESTATE DEVELOPMENT (3) SEM. 3. Opportunity for students to further develop expertise through supervised, independent course study related to real estate development or pursue an area of interest that may not be covered in the current curriculum.

LAND 5430 URBAN THEORY (3) LEC. 3. An introduction to contemporary theories of urban design, geography, and cultural theory using case study methods.

LAND 5500 LAND ETHICS AND ENVIRONMENTAL RESPONSIBILITY (3) LEC. 3. Explores the ethical relationship of man and nature.

LAND 5510 ENVIRONMENTAL PLANNING STUDIO (6) STU. 12. Natural systems analysis as a basis for site planning and large scale facilities design. Level-II standing.

LAND 5520 LANDSCAPE ARCHITECTURE DESIGN STUDIO (6) STU. 12. Pr. LAND 5110. A continuation of the basic design studio emphasizing research, planning, and design problems at community to regional scales.

LAND 5540 HISTORY OF LANDSCAPE ARCHITECTURE II (3) LEC. 3. Explores the built landscape from the 17th Century to the present including designs in America, Europe and Asia.

LAND 5590 INDEPENDENT STUDY THESIS (6) STU. 12. A major integrative investigation of a focused problem area, defined and pursued by the student under the direction of a faculty member.

LAND 6030 LANDSCAPE DESIGN METHODS (3) LEC. 3. Introduces students to skills, techniques, and ways of thinking fundamental to landscape architectural design, preparing students for future studio courses by emphasizing making, precision, experimentation, iteration, and judgment.

LAND 6040 LANDSCAPE ISSUES & PRACTICES (3) LEC. 3. Introduces students to both a selection of key issues relevant to contemporary landscape architecture and practices employed by landscape architects engaging in those issues.

LAND 6130 STUDIO I: FOUNDATION STUDIO (5) AAB/STU. 5. Teaches foundational skills (drawing, modeling, and multiple representational skills) that are necessary to progress into future design studios.

LAND 6131 FIELDWORK I (1) AAB/FLD. 1. Departmental approval. Field studies and travel related to studio.

LAND 6140 HISTORY, THEORY, AND PRACTICE I: LANDSCAPE ARCHITECTURE AND CONTEMPORARY URBANISM (3) AAB/SEM. 3. Pr. LAND 5230 or LAND 6230. The historical development of American urban landscapes, theoretical concepts for understanding them, and survey of related landscape architectural practice.

LAND 6150 CONSTRUCTION I: LANDFORM & HYDROLOGY (3) LEC. 3. Departmental approval. Fundamental skills needed to analyze, understand, and manipulate landform with respect to form, grading, drainage, and stormwater management.

LAND 6160 GRAPHIC STUDIES I (2-3) AAB/LEC. Focus on basic tools and techniques for interpreting and representing landscapes: photography, field sketching, technical drawing, and mixed-media montage. Introduction to vector and raster-based software and integrated analog-digital workflows. Course may be repeated for a maximum of 3 credit hours.

LAND 6170 GRAPHIC STUDIES II (3) LEC. 3. Departmental approval. Graphic and communication theories and skills in a variety of media. Photoshop, Illustrator, Indesign and AutoCAD.

LAND 6230 STUDIO II (5) STU. 5. Iterative design processes that project and test design scenarios, refining propositions based on multiple performance criteria in relation to site specificity and community context. Departmental approval. May either LAND 5230 or 6230.

LAND 6231 FIELDWORK II (1) FLD. 1. Departmental approval. Field studies and travel related to studio.

LAND 6240 HISTORY, THEORY, AND PRACTICE II: LANDSCAPE ARCHITECTURE AND CONTEMPORARY CULTURE (3) LEC. 3. Survey of the history of and theory for landscape architectural practice as it relates to contemporary American culture.

LAND 6250 CONSTRUCTION II: MATERIALS & DETAILING (3) LEC. 3. Departmental approval. Fundamentals of design detailing of site assemblies, with emphasis on material research and construction methods.
LAND 6270 PLANT SPATIALITY (2) LEC. 2. Studies of innovative design with plants, exploring issues of plant association, strata, and spatiality. Departmental approval. May count either LAND 5270 or 6270.

LAND 6290 GRAPHIC STUDIES II (3) LEC. 3. Focus on advanced digital methods and tools: mapping with GIS software; modeling, analysis, and rendering with Rhino and associated plugins; and photomontage, diagramming, and presentation assembly with Adobe software.

LAND 6330 STUDIO III (5) LEC. 5. Pr. LAND 5230 or LAND 6230. Departmental approval. Coreq. LAND 6331 and LAND 5331. Investigates eco-cultural relationships between regional, metropolitan, and urban scales with emphasis on physical and social flows.

LAND 6331 FIELD STUDIES III (1) FLD. 1. Pr. LAND 5230 or LAND 6230. Departmental approval. Coreq. LAND 6330 and LAND 5330. Field studies and travel related to studio.

LAND 6340 HISTORY, THEORY, AND PRACTICE III: PRE-MODERN LANDSCAPES (3) LEC. 3. Pr. LAND 6240. Global history of landscape-making, particularly in relationship to urbanization and culture, from prehistory to the inception of modern landscape architecture. Departmental approval.

LAND 6350 CONSTRUCTION III: HYDROLOGIES (2) LEC. 1. LAB. 2. Pr. LAND 5230 or LAND 6230. Departmental approval. This course emphasizes stormwater research, planning, and design. Students learn technical skills and design techniques needed to construct projects with environmental integrity and aesthetic appeal.

LAND 6360 DYNAMIC SYSTEMS I: URBAN ECOCOLOGIES (3) LEC. 3. Pr. LAND 5230 or LAND 6230. Departmental approval. This course provides an overview of natural ecological systems and how they can be preserved or restored to enhance human and ecological health through sustainable design.

LAND 6370 PLANT EPHEMERALITY (2) LEC. 2. Pr. LAND 5230 or LAND 6230. Departmental approval. Studies of innovative design with plants, exploring issues of plant phenology and dynamic lifecycle conditions.

LAND 6380 PLANTS I (2-3) LEC. Departmental approval. Introduces strategies for innovative design with plants, exploring issues of plant association, strata, form, and function. Course may be repeated for a maximum of 3 credit hours.

LAND 6410 SEMINAR ON REAL ESTATE DEVELOPMENT (3) SEM. 3. Opportunity for students to further develop expertise through supervised, independent course study related to real estate development or pursue an area of interest that may not be covered in the current curriculum.

LAND 6430 URBAN THEORY (3) LEC. 3. An introduction to contemporary theories of urban design, geography, and cultural theory using case study methods.

LAND 7130 STUDIO IV (5) AAB/STU. 5. Departmental approval. Investigates design strategies and techniques for generating new resilient cultural and environmental practices within complex dynamic conditions.


LAND 7140 URBAN STUDIES II: GLOBAL URBANISM (3) LEC. 3. Departmental approval. Examines the major global drivers of urban change, contemporary theories of international urban design, geography and cultural theory.

LAND 7170 PLANTS II (2-3) AAB/LEC. Departmental approval. Introduces strategies for innovative design with plants, exploring issues of plant ephemerality, functionality, and phenology. Course may be repeated for a maximum of 3 credit hours.

LAND 7190 RESEARCH BY DESIGN: FRAMEWORKS, METHODS, AND STRATEGIES (3) SEM. 3. Design is not just about solving problems, but figuring out which questions to ask in the first place. This course guides students through the iterative process of situating, identifying, framing, and testing a student-chosen trend, topic, or question.

LAND 7230 STUDIO V: COMPREHENSIVE STUDIO (5) STU. 5. Pr. LAND 5230. The first part of a two-semester research studio which involves creating a new body of work within a theoretical context and then critically appraising this work and its theoretical framework.

LAND 7231 FIELDWORK V (1) FLD. 1. Coreq. LAND 7230. Course is directly linked to the Landscape Design Studio and offers students opportunity to travel to relevant locations to advance, contextualize, and frame the design studio. Emphasizes first-hand experiences of the landscape where careful observation and analysis occur; and introduces students to skills, techniques, and ways of thinking about site reconnaissance and gathering landscape intelligence.
LAND 7232 STUDIO V: TERMINAL (6) STU. 6. Pr. LAND 5230. Departmental approval. This is a directed studio that will ask students to look at a large site within a city and design an individual intervention that reflects the goals and objectives of that studio.

LAND 7240 THEORIES AND PRACTICES (3) SEM. 3. Departmental approval. This is a reading, writing, and discussion seminar that examines the idea that the development of a democratic, civic, diverse social ecology can create more resilient and sustainable communities.

LAND 7250 CONTEMPORARY ISSUES IN LANDSCAPE ARCHITECTURE (2) LEC. 2. Pr. LAND 5230. Departmental approval. Investigation of landscape architectural issues and topics that can be undertaken by means of design, and the development of methodologies and techniques appropriate to such investigation.

LAND 7270 CONSTRUCTION III: REGENERATIVE TECHNOLOGIES (2-3) LEC. Introduces issues of land contamination and explores remediative and regenerative technologies as design strategies towards new productive futures. Course may be repeated for a maximum of 3 credit hours.

LAND 7280 DYNAMIC SYSTEMS II: REGIONAL ECOLOGIES (3) LEC. 3. This lecture/field laboratory course examines conditions of regional ecologies at multiple scales and explores possible public and private responses to these issues.

LAND 7290 GRAPHIC STUDIES III (3) SEM. 3. Fundamental concepts of Geographic Information Systems are used to create visual frameworks for gathering, interpreting, and sharing spatial data in landscape architecture practice.

LAND 7330 STUDIO VI: COMPREHENSIVE STUDIO (5) STU. 12. Pr. LAND 5230 or LAND 6230. A culmination of a design research project that ends in a public review and exhibition.

LAND 7331 FIELDWORK VI (1) FLD. 15. Coreq. LAND 7330. Directly linked to the Landscape Design Studio and offers students opportunity to travel to relevant locations to advance, contextualize, and frame the design studio. Gets students out of the classroom and emphasizes first-hand experiences of the landscape where careful observation and analysis occur. Introduces students to skills, techniques, and ways of thinking about site reconnaissance and gathering landscape intelligence.

LAND 7332 STUDIO VI: TERMINAL (6) STU. 6. Pr. LAND 5230 or LAND 6230. Departmental approval. A directed studio that will ask students to look at a large site within a city and design an individual intervention that reflects the goals and objectives of that studio.

LAND 7340 PROFESSIONAL PRACTICE (3) LEC. 3. Pr. LAND 5230 or LAND 6230. Departmental approval. This course surveys the development and ethics of the profession of landscape architecture and presents an overview of the business and practice of the profession.

LAND 7350 LANDSCAPE COMPUTER MODELING (2) LEC. 2. Departmental approval. Three dimensional and dynamic systems modeling.

LAND 7410 SEMINAR ON HISTORY AND THEORY (3) LEC. 3. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum.

LAND 7420 SEMINAR ON COMMUNITY OUTREACH (3) SEM. 3. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum.

LAND 7430 SEMINAR ON HYDROLOGY (2-3) SEM. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum. Course may be repeated for a maximum of 3 credit hours.

LAND 7440 SEMINAR ON LANDSCAPE COMMUNICATION (3) SEM. 3. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum.

LAND 7450 SEMINAR ON LANDSCAPE RESEARCH (2-3) SEM. Pr. LAND 5230. Departmental approval. Opportunity for students to further develop expertise through supervised, independent course study or pursue an area of interest that may not be covered in the current curriculum. Course may be repeated for a maximum of 3 credit hours.
LAND 7470 LANDSCAPE ARCHITECTURE INTERNSHIP (3) PRA. 3. By approval of Chair of Landscape Architecture. A practical, professional, full-time, curriculum-related work experience in the industry of landscape architecture. Under joint supervision of employer and university. Course may be repeated for a maximum of 9 credit hours.

LAND 7530 DESIGN BUILD FELLOWSHIP (3-6) LEC/PRA. Pr. LAND 5230. Departmental approval. The design investigation and construction/installation of a landscape proposal. Course may be repeated for a maximum of 6 credit hours.

LAND 7900 DIRECTED STUDIES (1-3) AAB. An individual student can pursue an area of research beyond the required curriculum. Departmental approval; MLA II standing. Course may be repeated for a maximum of 9 credit hours.

LAND 7960 SPECIAL PROBLEMS IN LANDSCAPE ARCHITECTURE (2) LEC. 2. Departmental approval. Investigation of landscape architectural issues and topics that can be undertaken by means of design, and the development of methodologies and techniques appropriate to such investigation.

LAND 7970 SPECIAL TOPICS (1-6) AAB. Groups of student work with a specific faculty on a special topic in an area of interest. Course may be repeated for a maximum of 9 credit hours. ADDITIONAL PREREQUISITES: Departmental approval; MLA I standing.

LAND 7990 DESIGN THESIS I (6) LEC. 6.

LAND 7991 DESIGN THESIS II (8) LEC. 8.

LAND 7992 RESEARCH SUMMARY (1) LEC. 1.

Curriculum in Architecture (Foundation Unit)

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
<th>Hours</th>
<th>Hours</th>
<th>Spring</th>
<th>Spring</th>
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<td>ARCH 3110 History of World Architecture II</td>
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To proceed to the beginning sequence of a design studio at third, fourth and fifth year levels, students must have completed all courses prior to that level or have the approval of the Academic Review Committee. [reference CADC Auburn University Bulletin entry]
### Junior

#### Fall

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<th>Hours</th>
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<td>ARCH 3020 Studio IV</td>
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<td>ABROAD &amp; Rural Studio -- Optional</td>
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### Senior

#### Fall

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<td>ARCH 3120 History of Modern Architecture</td>
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### Fifth Year

#### Fall

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<td>ARCH 5991 Thesis Research</td>
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### Total Hours: 152

1 ARCH students may not take ARCH 2600 for Fine Arts credit

### Curriculum in Architecture (Summer Design)

#### Freshman

#### Fall

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<td>PHYS 1500 General Physics I</td>
<td>4</td>
<td>ARCH 1020 Introduction to Architecture Design II</td>
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</table>
To qualify for summer design, students must meet the following 5 criteria: a minimum of 27 credit hours of university credit, successful completion of ARCH 1000, MATH 1150 Pre-CalAlgebra Trig OR MATH 1610 Calculus 1, and PHYS 1500 General Physics I (Trig. based) and a minimum 2.80 GPA. Students who meet all but the GPA requirement may be considered for acceptance to the Summer Design sequence if space is available in the program.

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<tr>
<th>Sophomore</th>
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<th>Hours</th>
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<td>Junior</td>
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<td>Senior</td>
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<td>ARCH 3120 History of Modern Architecture</td>
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### Fifth Year

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<td>Urban Studio &amp; Rural Studio 1:1 exchange program - Optional by application</td>
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Total Hours: 158

* MATH 1120/1130 or MATH 1150 or MATH 1610.

### Curriculum in Architecture/Interior Architecture (Foundation Unit)

#### Freshman

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15  16

#### Sophomore

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<td>ARCH 2010 Studio I</td>
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To proceed to the beginning sequence of a design studio at third, fourth and fifth year levels, students must have completed all courses prior to that level or have the approval of the Academic Review Committee. [refer to the CADC Auburn University Bulletin entry]

| Core Social Science | 3 |

| Junior |
|---|---|
| **Fall** | Hours | Spring | Hours |
| ARIA 3020 Studio 4A Interior Architecture | 6 | ARCH 3020 Studio IV | 6 |
| Core Literature (Humanities) | 3 | ARCH Seminar (See advisor for approved ARCH seminars) | 3 |
| BSCI 3440 Structures of Buildings II | 3 | ARCH 3410 Dessein Electives | 3 |
| ARIA 2150 Elements of Interior Arch I | 3 | PHYS 1510 General Physics II | 4 |
| Abroad or Rural Studio - Optional by Application | Abroad or Rural Studio - Optional by Application | |
| **Total** | 15 | 18 |  |

| Senior |
|---|---|
| **Fall** | Hours | Spring | Hours | Summer | Hours |
| ARCH 4010 Studio V | 6 | ARIA 4020 Studio 6A Interior Architecture | 6 | ARIA 4030 Interior Architecture Thesis | 6 |
| Core Fine Arts (Humanities) | 3 | ARCH 3120 History of Modern Architecture | 3 | ARIA 4080 Interior Architecture Thesis Research | 2 |
| ARCH 2220 Environmental Controls II | 3 | ARCH 4500 Professional Practice | 3 | ARIA 4450 Interior Architecture Professional Practice | 2 |
| ARCH 4110 History of Urban Architecture | 3 | ARIA 2160 Elements of Interior Architecture II | 3 | ARIA 4680 History and Theory of Interior Architecture | 3 |
| ARCH 3700 Seminar in History and Theory | 3 | Core Humanities | 3 | | |
| **Total** | 18 | 18 | 13 | |

| Fifth Year |
|---|---|
| **Fall** | Hours | Spring | Hours |
| ARCH 5010 Studio VII | 6 | ARCH 5020 Thesis Studio | 6 |
| ARCH 5990 Introduction to Thesis Research | 2 | ARCH 5991 Thesis Research | 1 |
| Core Humanities (Philosophy) | 3 | HIST 1020 World History II (Core Social Science) | 3 |
| HIST 1010 World History I (Core Social Science) | 3 | Core Social Science | 3 |
| Urban Studio & Rural Studio, 1:1 Exchange Program-Optional by application | UNIV 4AA0 Creed to Succeed | 0 |
Urban Studio & Rural Studio-1:1
Exchange Program Optional
by Application - Optional by
Application

Total Hours: 171

Curriculum in Architecture/Interior Architecture (Summer Design)

<table>
<thead>
<tr>
<th>Freshman</th>
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<th>Hours</th>
<th>Summer</th>
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<tr>
<td>ENGL 1100 English Composition I</td>
<td>3</td>
<td>ENGL 1120 English Composition II</td>
<td>3</td>
<td>ARCH 1020 Introduction to Architecture Design II</td>
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<tr>
<td>HIST 1010 World History I (Core Social Science)</td>
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<td>HIST 1020 World History II (Core Social Science)</td>
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<td>ARCH 1010 Introduction to Architecture Design</td>
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<tr>
<td>MATH 1150 Pre-Calculus Algebra and Trigonometry</td>
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<td>PHYS 1500 General Physics I</td>
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<td>ARCH 1060 Visual Communication</td>
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<td>Core Fine Arts (Humanities)</td>
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<tr>
<td>ARCH 1000 Careers in Design and Construction</td>
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To qualify for summer design, students must meet the following 5 criteria: a minimum of 27 credit hours of university credit, successful completion of ARCH 1000, MATH 1150 Pre-Cal Algebra & Trig OR MATH 1610 Calculus 1, and PHYS 1500 General Physics I (Trig. based) and a minimum 2.80 GPA. Students who meet all but the GPA requirement may be considered for acceptance to the Summer Design sequence if space is available in the program.

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<td>3</td>
<td>ARCH 2020 Studio II</td>
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<tr>
<td>ARCH 2010 Studio I</td>
<td>6</td>
<td>ARCH 3110 History of World Architecture II</td>
<td>3</td>
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<tr>
<td>ARCH 2110 History of World Architecture I</td>
<td>3</td>
<td>ARCH 4320 Materials and Methods of Construction II</td>
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<tr>
<td>ARCH 3320 Materials and Methods of Construction I</td>
<td>3</td>
<td>BSCI 2400 Structures of Buildings I</td>
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To proceed to the beginning sequence of a design studio at third, fourth and fifth year levels, students must have completed all courses prior to that level or have the approval of the Academic Review Committee. [reference CADC Auburn University Bulletin entry]

<table>
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<th>Year</th>
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<td>BSCI 3440 Structures of Buildings II</td>
<td>3 ARCH 3020 Studio IV</td>
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<td></td>
<td>ARIA 2150 Elements of Interior Arch I</td>
<td>3 ARCH 3410 Design Electives</td>
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<td>ARIA 3020 Studio 4A Interior Architecture</td>
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<td>ARCH 3700 Seminar in History and Theory</td>
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<td>ARCH 2220 Environmental Controls II</td>
<td>3 ARCH 3120 History of Modern Architecture</td>
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<td>ARCH 4010 Studio V</td>
<td>6 ARIA 4020 Studio 6A Interior Architecture</td>
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<td>ARCH 4110 History of Urban Architecture</td>
<td>3 ARCH 4500 Professional Practice</td>
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<td>PHYS 1510 General Physics II</td>
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<td>ARCH 5010 Studio VII</td>
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<td></td>
<td>ARCH 5990 Introduction to Thesis Research</td>
<td>2 ARCH 5991 Thesis Research</td>
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<td>Urban Studio &amp; Rural Studio 1:1 Exchange Program - Optional, by application</td>
<td>Core Philosophy (Humanities)</td>
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<pre><code>    |                                            | UNIV 4AA0 Creed to Succeed                  | 0     |
</code></pre>
History of Architecture and the Built Environment - Minor

Program Requirements and Description

The Minor in the History of Architecture and the Built Environment is composed of a series of established courses taught in the School of Architecture, Planning and Landscape Architecture (APLA); the Department of History; and the Department of Art & Art History. The Minor is mainly housed in APLA, with the Department of History and the Department of Art & Art History as primary partners. As a unique program to both the state and larger region, the Minor will offer students the opportunity to study the history of the built environment within a National Architectural Accrediting Board (NAAB) accredited School of Architecture.

The Minor requires a minimum of 15 credit hours above the core requirement. There are two paths for the Minor and both paths require at least 12 hours at the 3000-level or above. Students will be instructed to make an appointment with the department advisor to discuss or complete the Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Path A is for students outside of APLA:</td>
<td></td>
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</tr>
<tr>
<td>ARCH 2110</td>
<td>History of World Architecture I</td>
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</tr>
<tr>
<td>ARCH 3110</td>
<td>History of World Architecture II</td>
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</tr>
<tr>
<td>ARCH 3120</td>
<td>History of Modern Architecture</td>
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</tr>
<tr>
<td>or ARCH 4110</td>
<td>History of Urban Architecture</td>
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<tr>
<td>ARCH 3000+ approved elective (e.g. ARCH 3700 Seminar in History &amp; Theory or ARCH 4900)</td>
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<tr>
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<td>Path B is for students within APLA’s Bachelor of Architecture (B.Arch) program. Students within the B.Arch are already required to take ARCH 2110, ARCH 3110, ARCH 3120, ARCH 3700, and ARCH 4110. Therefore, the B.Arch students will need to complete the following courses to satisfy the requirements for the Minor:</td>
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<tr>
<td>ARTS 1610</td>
<td>Introduction to Art History</td>
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<td>ARTS 3000+ elective</td>
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<tr>
<td>HIST 3000+ elective</td>
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<td>CADC 3000, approved elective within Architecture, Landscape Architecture, or Building Science</td>
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<tr>
<td>ARCH 4900 Directed studies or similar integrative capstone project</td>
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<tr>
<td>Total Hours</td>
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All required hours for the Minor must be completed at Auburn.

Majors

Curriculum in Environmental Design

Bachelor of Science in Environmental Design

The bachelor of science in environmental design is a flexible multi-disciplinary degree. It emphasizes the blend of sustainable practices from local and global context with comprehensive design and systems thinking. The degree content includes environmental design courses, directed electives (electives within CADC) and free electives. Students are encouraged to utilize the free electives to earn
minor, and therefore customize their educational experience. Two summers of coursework are required for the environmental design
workshop course series. While this degree is a good option for students who are interested in pursuing graduate studies in design,
planning and construction related programs, it also enables students to seek employment opportunities in a variety of different fields
upon graduation.

Students who pursue the environmental design degree will learn core knowledge of design and construction disciplines and business
practices related to human-designed environments, including awareness of national and global perspectives. Exposure to national/
global environmental design issues, focus on interdisciplinary concepts, hybrid practices, and sustainability are key aspects of the
curriculum. A two part workshop course series allows students to focus on developing a general technical skill set for environmental
design foundations. Digital media introduction, structure and fabrication techniques, design communication development are included.
A capstone workshop requires students to initiate and complete a community engagement environmental design project using
principles of collaboration, leadership and effectiveness training, hands-on experience, civic engagement and design communication
skills. Minimum GPA for transfer students is 2.5.

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<td>History Core I</td>
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<th>Hours</th>
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<td>ENVD 2040 Design, Invention and Society or ARCH 2600 The Art of Architecture, Place, and Culture</td>
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<tr>
<td>Core Social Science</td>
<td>3</td>
<td>ENVD 3100 Civic Engagement and Research Methods</td>
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<td>ENVD 4100 Environmental Design Workshop II - Capstone</td>
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<tr>
<td>ENVD 3000 Environmental Design Concepts and Practices II</td>
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<td>ENVD 5030 Studies in Design Thinking and Entrepreneurship (Studies in Design Thiking and Praxis)</td>
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<td>ENVD 4010 Elements of Design Thinking and Communication</td>
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<td>ENVD 4970 Special Topics in Environmental Design</td>
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<td>ENVD 3200 Systems in Built Environment I</td>
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**Senior**

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Total Hours: 120-121

**Curriculum in Environmental Design - Pre-Landscape Architecture Track**

**First Year**

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<tr>
<td>ENGL 1100 English Composition I</td>
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<tr>
<td>Core Science</td>
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<tr>
<td>ARCH 1000 Careers in Design and Construction</td>
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**Second Year**

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<tr>
<td>HIST 1010 World History I or 1017 Honors World History I</td>
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<td>ARCH 2600 The Art of Architecture, Place, and Culture</td>
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**Third Year**

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<td>ENVD 4970 Special Topics in Environmental Design</td>
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</table>

**Total Hours: 120-121**
If a student successfully completes the Pre-Landscape Architecture summer program, then the student progresses into the remainder of the Pre-Land curriculum. Otherwise the student will return to the basic ENVD degree plan.

<table>
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<tr>
<th>Directed Elective</th>
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### Fourth Year

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<tbody>
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<td>LAND 5130 Studio I: Foundation Studio</td>
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<td>LAND 5230 Studio II</td>
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<tr>
<td>LAND 5131 Fieldwork I</td>
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<td>LAND 5231 Fieldwork II</td>
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<tr>
<td>LAND 5140 History, Theory, and Practice I: Landscape Architecture and Contemporary Urbanism</td>
<td>3</td>
<td>LAND 5240 History, Theory, and Practice II: Landscape Architecture and Contemporary Culture</td>
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<tr>
<td>LAND 5150 Construction I: Landform &amp; Hydrology</td>
<td>3</td>
<td>LAND 5250 Construction II: Materials &amp; Detailing</td>
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<tr>
<td>LAND 5260 Graphic Studies III</td>
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Total Hours: 120-121

1. CADC DIRECTED ELECTIVES: ARCH 1000, ARCH 3700, INDD 1120, BSCI 1100, ARCH 2110, ARCH 3110, ARCH 3410, ARIA 2150, ARIA 2160
Index

C
College of Architecture, Design, and Construction ........................................................................................................... 2
Curriculum in Architecture (Foundation Unit) ................................................................................................................. 51
Curriculum in Architecture (Summer Design) ............................................................................................................... 52
Curriculum in Architecture/Interior Architecture (Foundation Unit) ........................................................................... 54
Curriculum in Architecture/Interior Architecture (Summer Design) ........................................................................... 56
Curriculum in Building Science ....................................................................................................................................... 37
Curriculum in Environmental Design ............................................................................................................................. 58
Curriculum in Environmental Design - Pre-Landscape Architecture Track ........................................................................ 60
Curriculum in Graphic Design ........................................................................................................................................ 28
Curriculum in Industrial Design ...................................................................................................................................... 29
Curriculum in Industrial Design - Post-Baccalaureate Industrial Design Studies ................................................................. 30

H
History of Architecture and the Built Environment - Minor ........................................................................................... 58

M
Majors ............................................................................................................................................................................... 58
McWhorter School of Building Science .......................................................................................................................... 32
Minor in Industrial and Graphic Design Processes ......................................................................................................... 31

S
School of Architecture, Planning, and Landscape Architecture .......................................................................................... 39
School of Industrial and Graphic Design ........................................................................................................................ 21