

Arch No.	2012 BACHELOR OF SCIENCE IN ARCHITECTURE COURSES
	<i>Title, Description, Prerequisites, Corequisites, Hours, Credit Units</i>
1	Architectural Communication I: Mechanical Drawing. Drafting principles & techniques, applied descriptive & solid geometry; the development of skills in orthographics & reproduction techniques. 7h. (1 lec, 6 studio) 3u.
2	Architectural Communication II: Graphic Visualization & Representation Techniques. Use of perspectives, various graphic & representation techniques in the conception & communication of space & design. 9h. (lab) 3u.
3	Architectural Communication III: Architectural Presentation Techniques. The use of mixed media, photographic reproduction processes & model-making techniques, coupled with the principles & strategies behind various packaging techniques, for architectural presentations. Prereq: Arch 2. 9h. (lab) 3u.
4	Architectural Communication IV: Introduction to Computer-Aided Design & Digital Visualization. Introduction to the use of various computer software & digital media as tools for architectural presentation & design. Prereq: Arch 3 (for BS Architecture and B Landscape Architecture students) or ID 31 (for BS Interior Design students) 5h. (2 lec, 3 studio) 3u.
5	Architectural Communication V: Digital Visualization in Architecture. Advanced computer-aided design approaches, expressions & techniques in architectural study & presentation. Prereq: Arch 4. 6h. (studio) 2u.
10	Architectural Design I: Foundations of Design. Design fundamentals involving basic spatial & creative design problems. 4h. (1 lec, 3 studio) 2u.
16	History, Theory & Criticism I: Introduction to Architecture. A study of theories & texts that have influenced the analysis & the production of architectural form. 2h. (lec) 2u.
17	History, Theory & Criticism II: Philippine Architecture. A chronological study of Philippine Architecture from pre-colonial to contemporary times with focus on related theoretical issues. Prereq: Arch 16. 2h. (lec) 2u.
18	History, Theory & Criticism III: Architecture of Asia & the Pacific. A diachronic study of the architecture of Asia & the Pacific with focus on related theoretical issues. Prereq: Arch 17. 2h. (lec) 2u.
19	History, Theory & Criticism IV: World Architecture. A diachronic study of the architecture of Europe, the Americas, Middle East, Russia & Africa, with focus on related theoretical issues. Prereq: Arch 18. 2h. (lec) 2u.
20	Architectural Design II: Design & Intra-personal Spaces. Design exercises involving the body, movements & experiences. Prereq: Arch 10. 4h. (1 lec, 3 studio) 2u.
21	Architectural Design III: Design & Inter-personal Spaces. Design exercises relating spaces with values & culture, while emphasizing the role of society in the architectural creative process. Prereq: Arch 16, 20. 9h. (studio) 3u.
22	Architectural Design IV: Design & Social Space. Design exercises relating architecture with ethical, political & cultural concerns. Prereq: Arch 21. 9h. (studio) 3u.
23	Building Construction I: Materials of Building Technology. Materials of construction, their properties, use & applications, & emerging applications; preparation of specifications. Prereq: 2nd yr. standing. 5h. (2 lec, 3 lab) 3u.
24	Building Construction II: Simple Frame Construction. Light & medium construction systems; principles of simple frames using wood & masonry, small precast concrete units, light gauge metal & other relevant materials. Prereq: Arch 1, 23. 9h. (studio) 3u.
28	Architectural Structures III: Statics & Strength of Materials for Buildings. Visualization & analysis of forces acting on building elements & structures under static equilibrium; strength of structural building materials. Prereq: Physics 71. 6h. (3 lec, 3 lab) 4u.
31	Architectural Design V: Site Context & Architecture. Design exercises highlighting the role of context in the creative process of the environment. Prereq: Arch 22; Coreq: Arch 60. 9h. (studio) 3u.
32	Architectural Design VI: Architecture, Technology & the Environment. Design exercises emphasizing the relationships among architecture, technology & the environment, while addressing economy & sustainability concerns. Prereq: Arch 31. 9h. (studio) 3u.
33	Building Construction III: Heavy Frame Construction. Construction methods & drawings for heavy reinforced concrete & steel structures showing their structural, electrical, plumbing & mechanical systems. Prereq: Arch 24. 9h. (studio) 3u.
35	Utilities I: Plumbing & Sanitary Services in Buildings. Principles & practices of sanitary installations in buildings & their environment. Prereq: Arch 24, Physics 71. 3h. (lec) 3u.
55	Design with Nature: Tropical Design. Techniques for the design & planning of buildings within the technological & social constraints prevailing in the hot-humid tropics. Prereq: 2nd yr. standing. 2h. (lec) 2u.
57	Practice & Governance I: Building Laws. Legal obligations & responsibilities of the architect; building contracts; the building code & related laws on land development & human settlements. 3h. (lec) 3u.
60	Planning & Urban Design I: Site Planning & Landscape Architecture. The artistic & functional arrangement of buildings; enhancement & design techniques for exterior environments. Coreq: Arch 31. 3h. (lec) 3u.
75	Architectural Research: Basic Research Methods in Architecture. Quantitative & operational methods in architectural design research, user-requirement & performance in use analysis. Prereq: 2nd yr. standing. 2h. (lec) 2u.
105*	Architectural Communication VII: Theory of Color. Physical & psychological properties of color, their relevance to defining space, form & textures. Prereq: Arch 3. 3h. (lec) 3u.
128*	Architectural Structures VI: Laboratory in Architectural Structures. Models, simulation & statistical experiments on the durability, stability & strength of building structures. Prereq: Arch 28. 3h. (studio) 1u.
134	Building Construction IV: Building Systems & Technology. Quantity surveying & cost estimating; construction methods & drawings for pre-fabricated components, membrane structures & industrialized systems; architectural detailing. Prereq: Arch 33. 5h. (2 lec, 3 lab) 3u.
136	Utilities II: Mechanical & Electrical Systems of Buildings. Mechanical & electrical systems in buildings, their design, equipment, installation & maintenance. Prereq: Math 53, Physics 72. 3h. (lec) 3u.
140*	Utilities VI: Utilities for Building Interiors. Principles & applications of environmental control & sanitation, the relations to building interiors. Prereq: 4th yr. standing. 3h. (lec) 3u.
141	Architectural Design VII: Integrative Design Project I. The first of two single design projects of a creative & technical level integrating knowledge & skills acquired from all previous & present architectural courses. Prereq: Arch 32, Arch 75. 10h. (1 lec, 9 studio) 4u.
142	Architectural Design VIII: Integrative Design Project II. The second of two single design projects of a creative & technical level integrating knowledge & skills acquired from all previous & present architectural courses. Prereq: Arch 141. 10h. (1 lec, 9 lab) 4u.
143	Utilities III: Architectural Lighting. The psycho-physics of daylighting & artificial illumination in buildings, their measurement, analysis & design. Prereq: Physics 72. 5h. (2 lec, 3 lab) 3u.
144*	Architectural Communication VIII: Color Dynamics. Kinetic, perceptual & cultural constraints in the use of color in architecture. Prereq: Arch 3, 20. 2h. (lec) 2u.
147	Utilities IV: Architectural Acoustics. The psycho-physics of acoustics in buildings & their immediate environment, their measurement, analysis & design. Prereq: Physics 72. 5h. (2 lec, 3 lab) 3u.
148*	Utilities VII: Environmental Lighting. The lighting of building exteriors, parks, playfields & roadways for aesthetics & safety; their measurement, analysis, design & maintenance. Prereq: Arch 136, 143. 2h (lec) 2u.
149*	Utilities VIII: Environmental Acoustics. Sound & noise control in building site & urban areas. Prereq: Arch 147. 3h. (lec) 3u.
153*	Architectural Design XI: Architectural Manufacturing. Exercises aimed at developing market-responsive designs of prototypes of architectural components, such as doors, windows, lighting fixtures. Prereq: 3rd yr. standing. 4h. (1 lec, 3 studio) 2u.
156*	Architectural Design XII: Evaluation of Architectural Design. Studies of Architectural forms, systems, components, & details in relation to production efficiency, environmental criteria, use & maintenance. Prereq: senior standing. 3h. (lec) 3u.
158	Practice & Governance II: Professional Services of the Architect. Architecture as a profession, Code of Ethical Conduct & Standards of Professional Practice, appreciation of Regular Design Services & Comprehensive Professional Services & practical guidelines in setting up & managing an architectural office. Prereq: Arch 57. 3h. (lec) 3u.
159	Practice & Governance III: Finance, Taxation, Civics & Land Reform for Architects. Financial analysis, accounting, taxation & land reform as related to the business of architecture; special studies in population education & the new constitution. Prereq: Arch 57 or equivalent. 2h. (lec) 2u.
161	Planning & Urban Design II: Fundamentals of Urban Design & Community Architecture. Order, culture & expression for design of exterior architecture in towns & cities. Prereq: Arch 60 or equivalent. 3h. (lec) 3u.
162	Planning & Urban Design III: Introduction to Urban & Regional Planning. Concepts, trends, methods & techniques in urban planning; overview of land use on planning of regions. Prereq: Arch 161. 3h. (lec) 3u.
163	Planning & Urban Design IV: Socio-Cultural & Institutional Aspects of Housing. Socio-cultural & institutional challenges for effective delivery of housing. Prereq: Arch 162. 3h. (lec) 3u.
166*	Architectural Communication IX: Architectural Photography. Photographic techniques applied to architectural presentation. Prereq: junior standing. 5h. (2 lec, 3 studio) 3u.
168*	Architectural Communication X: Model-Making for Building Interiors. Development of interior design concepts & furniture layout with the use of scaled models. Prereq: junior standing. 5h. (2 lec, 3 studio) 3u.
171	Architectural Structures: Form-Finding in Structures I. Application of statics & analysis of material strength in form-finding in buildings. Prereq: Arch 28, 24. 6h. (3 lec, 3 lab) 4u.
172	Architectural Structures: Form-Finding in Structures II. Application of statics & analysis of material strength in designing or choosing foundation systems for buildings. Prereq: Arch 171. 6h. (3 lec, 3 lab) 4u.
176	Utilities V: Health & Safety in Buildings. Design parameters for accessible, healthful & safe architectural spaces & environments. Prereq: Arch 35, 136. 2h. (lec) 2u.
199.1	Architectural Design IX: A Comprehensive Design Project (Pre-design to Schematic). A final design activity demonstrating comprehension of all architectural courses in the program, Part 1. Prereq: Arch 171, 142. 10h. (1 lec, 9 studio) 4u.
199.2	Architectural Design X: A Comprehensive Design Project (Design Development). A final design activity demonstrating comprehension of all architectural courses in the program, Part 2. Prereq: Arch 199.1. 10h. (1 lec, 9 studio) 4u.

*elective