

2002 BACHELOR OF SCIENCE IN ARCHITECTURE COURSES

Arch #	Title, Description, Prerequisites, Corequisites, Hours, Credit Units
1	Architectural Communication I: Mechanical Drawing. Drafting principles and techniques, applied descriptive and solid geometry; the development of skills in orthographics and reproduction techniques. 7h. (1 lec, 6 studio) 3u.
2	Architectural Communication II: Freehand Drawing. Graphic techniques for expressing concepts and intentions, and their applications to Architecture. 6 h. (studio) 2u.
3	Architectural Communication III: Formal Presentation Techniques. The use of mixed media, photographic reproduction processes and model-making for presentation. Prereq: Arch 2. 6 h. (studio) 2u.
4	Architectural Communication IV: Perspective Visualization and Representation. Theories and techniques for envisioning forms and spaces in 3D in the context of architectural design and communication. Prereq: Arch 1, 2. 4 h. (1 lec, 3 studio) 2u.
6	Architectural Communication V: Advanced Formal Presentation Techniques. Principles and strategies behind various packaging techniques for architectural presentation. Prereq: Arch 3, 4. 5 h (2 lec, 3 studio) 3u.
7	Architectural Communication VI: Advanced Communication Techniques. Introduction to the use of information and communication technologies for analysis, architectural programming, design, and facilities management. Prereq: Arch 6 or equivalent. 4 h. (1 lec, 3 studio) 2u.
10	Architectural Design I: Foundations of Design. Design fundamentals involving basic spatial and creative design problems. 4h. (1 lec, 3 studio) 2u.
16	History, Theory & Criticism I: Introduction to Architecture. A study of theories and texts that have influenced the analysis and the production of architectural form. (2 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. (2 lec) 2 u.
18	History, Theory & Criticism III: Architecture of Asia and the Pacific. A diachronic study of the architecture of Asia and the Pacific with focus on related theoretical issues. Prereq: Arch 17. (2 lec) 2u.
19	History, Theory & Criticism IV: World Architecture. A diachronic study of the architecture of Europe, the Americas, Middle East, Russia and Africa, with focus on related theoretical issues. Prereq: Arch 18. (2 lec) 2u.
20	Architectural Design II: Design & Intra-personal Spaces. Design exercises involving the body, movements and experiences. Prereq: Arch 10. 4 h. (1 lec, 3 studio) 2u.
21	Architectural Design III: Design & Inter-personal Spaces. Design exercises relating spaces with values and culture, while emphasizing the role of society in the architectural creative process. Prereq: Arch 16, 20. (9studio) 3u.
22	Architectural Design IV: Design & Social Space. Design exercises relating architecture with ethical, political and cultural concerns. Prereq: Arch 21. (9studio) 3u.
23	Building Construction I: Materials of Building Technology. Properties of building materials, their application and articulation; system of construction, preparation of specifications. Prereq: 2nd year standing. (3lec) 3u.
24	Building Construction II: Wood & Masonry Construction. Principles of modern building, introduction to construction methods; drawings for simple structures in wood and masonry. Prereq: Arch 1, 23. (9studio) 3u.
26	Architectural Structures I: Statics of Rigid Bodies. Visualization and analysis of forces acting on building elements and structures under static equilibrium; friction, first and second degree moments. Coreq: Math 53, Physics 71. (3lec) 3u.
27	Architectural Structures II: Strength of Materials. Analytical procedures for building elements and structures based on the principles of equilibrium, connection conditions and material properties; theories of elasticity and material failures. Prereq: Arch 26. (3lec) 3u.
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. (9studio) 3u.
32	Architectural Design VI: Architecture, Technology & the Environment. Design exercises emphasizing the relationships among architecture, technology and the environment, while addressing economy and sustainability concerns. Prereq: Arch 31. (9studio) 3u.
33	Building Construction III: Concrete & Steel Construction. Construction methods and drawings for concrete and steel structures showing their structural, electrical, plumbing and mechanical systems. Prereq: Arch 24. (9studio) 3u.
35	Utilities I: Plumbing & Sanitary Services in Buildings. Principles and practices of sanitary installations in buildings and their environment. Prereq: Arch 24, Physics 71. (3 lec) 3u.
55	Design with Nature: Tropical Design. Techniques for the design and planning of buildings within the technological and social constraints prevailing in the hot-humid tropics. Prereq: 2nd year standing. (2lec) 2u.
57	Practice & Governance I: Building Laws. Legal obligations and responsibilities of the architect; building contracts; the building code and related laws on land development and human settlements. (3lec) 3u.
60	Planning & Urban Design I: Planning & Landscape Architecture. The artistic and functional arrangement of buildings; enhancement and design techniques for exterior environments. Coreq: Arch 31. (3lec) 3u.
75	Architectural Research: Basic Research Methods in Architecture. Quantitative and operational methods in architectural design research, user-requirement and performance in use analysis. Prereq: 2nd year standing. (2lec) 2u.
105*	Architectural Communication VII: Theory of Color. Physical and psychological properties of color, their relevance to defining space, form and textures. Prereq: Arch 3. (3lec) 3u.
128*	Architectural Structures VI: Laboratory in Architectural Structures. Models, simulation and statistical experiments on the durability, stability and strength of building structures. Prereq: Arch 27. (3studio) 1u.
134	Building Construction IV: Building Systems & Technology. Quantity surveying and cost estimating; construction methods and drawings for pre-fabricated components, membrane structures and industrialized systems; architectural detailing. Prereq: Arch 33. (9studio) 3u.
136	Utilities II: Mechanical & Electrical Systems of Buildings. Mechanical and electrical systems in buildings, their design, equipment, installation and maintenance. Prereq: Math 54, Physics 72. (3lec) 3u.
140*	Utilities VI: Utilities for Building Interiors. Principles and applications of environmental control and sanitation, the relations to building interiors. Prereq: 4th year standing. (3lec) 3u.
143	Utilities III: Architectural Lighting. The psycho-physics of daylighting and artificial illumination in buildings, their measurement, analysis and design. Prereq: Physics 72. 4 h. (1lec, 3studio) 2u.
144*	Architectural Communication VIII: Color Dynamics. Kinetic, perceptual and cultural constraints in the use of color in architecture. Prereq: Arch 3, 20. (2lec) 2u.
147	Utilities IV: Architectural Acoustics. The psycho-physics of acoustics in buildings and their immediate environment; their measurement, analysis and design. Prereq: Physics 72. (2lec) 2u.
148*	Utilities VII: Environmental Lighting. The lighting of building exteriors, parks, playgrounds and roadways for aesthetics and safety; their measurement, analysis, design and maintenance. Prereq: Arch 136, 143. (2lec) 2u.
149*	Utilities VIII: Environmental Acoustics. Sound and noise control in building site and urban areas. Prereq: Arch 147. (3lec) 3u.
153*	Architectural Design X: Architectural Manufacturing. Exercises aimed at developing market-responsive designs of prototypes of architectural components, such as doors, windows, lighting fixtures. Prereq: 3rd year standing. 4h(1lec, 3studio) 2u.
156*	Architectural Design XI: Evaluation of Architectural Design. Studies of Architectural forms, systems, components, and details in relation to production efficiency, environmental criteria, use and maintenance. Prereq: senior standing. (3lec) 3u.
158	Practice & Governance II: Regular Services of the Architect. Architecture as a profession; ethical norms; office procedures. Prereq: Arch 57. (2lec) 2u.
159	Practice & Governance III: Finance, Taxation, Civics & Land Reform for Architects. Financial analysis, accounting, taxation and land reform as related to the business of architecture; special studies in population education and the new constitution. Prereq: Arch 57 or equivalent. (2lec) 2u.
160	Practice & Governance IV: Comprehensive Services of the Architect. The management of comprehensive services; project management; and resource allocation techniques. Prereq: Arch 158. (2lec) 2u.
161	Planning & Urban Design II: Fundamentals of Urban Design & Community Architecture. Order, culture and expression for design of exterior architecture in towns and cities. Prereq: Arch 60 or equivalent. (3lec) 3u.
162	Planning & Urban Design III: Introduction to Urban & Regional Planning. Concepts, trends, methods and techniques in urban planning; overview of land use on planning of regions. Prereq: Arch 161. (3lec) 3u.
163	Planning & Urban Design IV: Socio-Cultural & Institutional Aspects of Housing. Socio-cultural and institutional challenges for effective delivery of housing. Prereq: Arch 162. (3lec) 3u.
166*	Architectural Communication IX: Architectural Photography. Photographic techniques applied to architectural presentation. Prereq: junior standing. 5h(2lec, 3studio) 3u.
168*	Architectural Communication X: Model-Making for Building Interiors. Development of interior design concepts and furniture layout with the use of scaled models. Prereq: junior standing. 5lec(2lec, 3studio) 3u.
170*	Architectural Communication XI: Advanced Computer Applications in Architecture. Advanced computer-aided design approaches, expressions and techniques in architectural study and presentation. Prereq: Arch 7. 4h(1lec, 3studio) 2u.
171	Architectural Structures III: Determinate Structures. Building loads; properties of materials; analysis of statically determinate structures; design for simple structures, their attachments, anchorages and connections. Prereq: Arch 27, 33. 5h(2lec, 3studio) 3u.
172	Architectural Structures IV: Indeterminate Structures. Analysis of statically indeterminate structures; design for different materials subject to combined loadings; detailing and cost evaluation of framing systems. Prereq: Arch 171. 5h(2lec, 3studio) 3u.
173	Architectural Structures V: Concrete Structures. Structural design of slabs and frames, footings and retaining walls. Survey of building systems; procedures for the preparation of structural documents. Prereq: Arch 172. 7h(1lec, 6studio) 3u.
176	Utilities V: Health & Safety in Buildings. Design parameters for accessible, healthful and safe architectural spaces and environments. Prereq: Arch 35, 136. (2lec) 2u.
197	Architectural Design VII: Architectural Topic Studio. Research and design exercises aimed at integrating basic architectural knowledge through thematic issues under selected fields of discipline. (Should be taken twice) Prereq: Arch 32, 75. 10h(1lec, 9studio) 4u., must be enrolled twice, but should have different topics.
199.1	Architectural Design VIII: Research Project in Architecture. A research project focusing on new concepts in the field of architecture. Prereq: Arch 171, 197. 10h(1lec, 9studio) 4u.
199.2	Architectural Design IX: A Design Project. A design project aimed at applying concepts learned to generate new architectural designs, principles and/or guidelines. Prereq: Arch 172, 173, 199.1. 10h(1lec, 9studio) 4u.

*elective