

COLLEGE OF ARCHITECTURE, University of the Philippines Diliman  
**2018 BACHELOR OF SCIENCE IN ARCHITECTURE CURRICULUM**

**FIRST YEAR**

*FIRST SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 1	Architectural Communication I: <i>Mechanical Drawing</i>	1	6	3
Arch 2	Architectural Communication II: <i>Graphic Visualization &amp; Representation Techniques</i>	0	9	3
Arch 10	Architectural Design I: <i>Foundations of Design</i>	1	3	2
Eng 13 / Speech 30	Writing as Thinking / Public Speaking and Persuasion	3	0	3
KAS 1	Kasaysayan ng Pilipinas	3	0	3
ARTS 1	Critical Perspectives in the Arts	3	0	3
PE				(2)
<b>total units</b>		<b>11</b>	<b>18</b>	<b>17</b>

*SECOND SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 3	Architectural Communication III: <i>Architectural Presentation Techniques</i>	0	9	3
Arch 16	History, Theory & Criticism I: <i>Introduction to Architecture</i>	2	0	2
Arch 20	Architectural Design II: <i>Design &amp; Intra-personal Spaces</i>	1	3	2
Soc Sci 1 / Soc Sci 2	Foundations of Behavioral Science / Social, Economic, and Political Thought	3	0	3
Fil 40	Wika, Kultura, at Lipunan	3	0	3
Philo 1	Philosophical Analysis	3	0	3
Chem 1	Chemistry: Science that Matters	3	0	3
PE				(2)
<b>total units</b>		<b>15</b>	<b>12</b>	<b>19</b>

**SECOND YEAR**

*FIRST SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 4	Architectural Communication IV: <i>Introduction to Computer-Aided Design &amp; Digital Visualization</i>	2	3	3
Arch 17	History, Theory & Criticism II: <i>Philippine Architecture</i>	2	0	2
Arch 21	Architectural Design III: <i>Design &amp; Inter-personal Spaces</i>	0	9	3
Math 21 <sup>1</sup>	Elementary Analysis I	4	0	4
Physics 71	Elementary Physics I	4	0	4
Physics 71.1	Elementary Physics I Laboratory	0	3	1
PE				(2)
NSTP <sup>2</sup>				(3)
<b>total units</b>		<b>12</b>	<b>15</b>	<b>17</b>

*SECOND SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 5	Architectural Communication V: <i>Digital Visualization in Architecture</i>	0	6	2
Arch 18	History, Theory & Criticism III: <i>Architecture of Asia &amp; the Pacific</i>	2	0	2
Arch 22	Architectural Design IV: <i>Design &amp; Social Space</i>	0	9	3
Arch 23	Building Construction I: <i>Materials of Building Technology</i>	2	3	3
GE 11	Elementary Surveying	1	3	2
Physics 72	Elementary Physics II	4	0	4
Physics 72.1	Elementary Physics II Laboratory	0	3	1
PE				(2)
NSTP <sup>2</sup>				(3)
<b>total units</b>		<b>9</b>	<b>24</b>	<b>17</b>

**THIRD YEAR**

*FIRST SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 19	History, Theory & Criticism IV: <i>World Architecture</i>	2	0	2
Arch 24	Building Construction II: <i>Simple Frame Construction</i>	0	9	3
Arch 28	Architectural Structures III: <i>Statics &amp; Strength of Materials for Buildings</i>	3	3	4
Arch 31	Architectural Design V: <i>Site Context &amp; Architecture</i>	0	9	3
Arch 57	Practice & Governance I: <i>Building Laws</i>	3	0	3
Arch 60	Planning & Urban Design I: <i>Site Planning &amp; Landscape Architecture</i>	3	0	3
<b>total units</b>		<b>11</b>	<b>21</b>	<b>18</b>

*SECOND SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 32	Architectural Design VI: <i>Architecture, Technology &amp; the Environment</i>	0	9	3
Arch 33	Building Construction III: <i>Heavy Frame Construction</i>	0	9	3
Arch 35	Utilities I: <i>Plumbing &amp; Sanitary Services in Buildings</i>	3	0	3
Arch 55	Design with Nature: <i>Tropical Design</i>	2	0	2
Arch 75	Architectural Research: <i>Basic Research Methods in Architecture</i>	2	0	2
Arch 171	Architectural Structures: <i>Form-Finding in Structures I</i>	3	3	4
<b>total units</b>		<b>10</b>	<b>21</b>	<b>17</b>

**FOURTH YEAR**

*FIRST SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 136	Utilities II: <i>Mechanical &amp; Electrical Systems of Buildings</i>	3	0	3
Arch 141	Architectural Design VII: <i>Integrative Design Project I</i>	1	9	4
Arch 143	Utilities III: <i>Architectural Lighting</i>	2	3	3
Arch 161	Planning & Urban Design II: <i>Fundamentals of Urban Design &amp; Community Architecture</i>	3	0	3
Arch 172	Architectural Structures: <i>Form-Finding in Structures II</i>	3	3	4
<b>total units</b>		<b>12</b>	<b>15</b>	<b>17</b>

*SECOND SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 134	Building Construction IV: <i>Building Systems &amp; Technology</i>	2	3	3
Arch 142	Architectural Design VIII: <i>Integrative Design Project II</i>	1	9	4
Arch 147	Utilities IV: <i>Architectural Acoustics</i>	2	3	3
Arch 162	Planning & Urban Design III: <i>Introduction to Urban &amp; Regional Planning</i>	3	0	3
STS 1 / DRMAPS	Science, Technology, and Society I / Disaster Risk Mitigation, Adaptation, and Preparedness Strategies	3	0	3
GE (Elective 1)		3	0	3
<b>total units</b>		<b>14</b>	<b>15</b>	<b>19</b>

**FIFTH YEAR**

*FIRST SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 158	Practice & Governance II: <i>Professional Services of the Architect</i>	3	0	3
Arch 159	Practice & Governance III: <i>Finance, Taxation, Civics &amp; Land Reform for Architects</i>	2	0	2
Arch 163	Planning & Urban Design IV: <i>Socio-Cultural &amp; Institutional Aspects of Housing</i>	3	0	3
Arch 176	Utilities V: <i>Health &amp; Safety in Buildings</i>	2	0	2
Arch 199.1	Architectural Design IX: <i>A Comprehensive Design Project (Pre-Design to Schematic)</i>	1	9	4
GE (Elective 2)		3	0	3
<b>total units</b>		<b>14</b>	<b>9</b>	<b>17</b>

*SECOND SEMESTER*

course code	course title	lec hr	lab hr	units
Arch 199.2	Architectural Design X: <i>A Comprehensive Design Project (Design Development)</i>	1	9	4
PI 100	The Life & Works of Jose Rizal	3	0	3
GE (Elective 3)		3	0	3
Elective <sup>3</sup>	Elective Course	3	0	3
Elective <sup>3</sup>	Elective Course	3	0	3
<b>total units</b>		<b>13</b>	<b>9</b>	<b>16</b>

**BACHELOR OF SCIENCE IN ARCHITECTURE : 174 UNITS**

<sup>1</sup> All students required to take Math 21 must have passed any of the following: (1) Pre-Calculus from the STEM or equivalent strand of K-12; (2) the Validation Examination for Math 20 (Pre-Calculus: Functions and their Graphs) administered by the UPD Institute of Mathematics; or (3) Math 20 as a non-credit course.

<sup>2</sup> As a requirement for graduation, all students must take six (6) units in one of the National Service Training Program (NSTP) components: Civil Welfare Training Service (CWTS), Literacy Training Service (LTS), and Reserved Officers' Training Corps Military Science (ROTC Mil Sci). These are offered by UPD.

<sup>3</sup> Electives may be taken from the following disciplines or studies: Architecture, Social Studies, Humanities, Engineering and Planning.

## 2018 BACHELOR OF SCIENCE IN ARCHITECTURE COURSES

Arch #	<i>Title, Description, Prerequisites, Corequisites, Hours, Credit Units</i>
1	<b>Architectural Communication I: Mechanical Drawing.</b> Drafting principles & techniques, applied descriptive & solid geometry; the development of skills in orthographics & reproduction techniques. 7h. (1 lec, 6 studio) 3u.
2	<b>Architectural Communication II: Graphic Visualization &amp; Representation Techniques.</b> Use of perspectives, various graphic & representation techniques in the conception & communication of space & design. 9h. (lab) 3u.
3	<b>Architectural Communication III: Architectural Presentation Techniques.</b> 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	<b>Architectural Communication IV: Introduction to Computer-Aided Design &amp; Digital Visualization.</b> Introduction to the use of various computer software & digital media as tools for architectural presentation & design. Prereq: Arch 3. 5h. (2 lec, 3 studio) 3u.
5	<b>Architectural Communication V: Digital Visualization in Architecture.</b> Advanced computer-aided design approaches, expressions & techniques in architectural study & presentation. Prereq: Arch 4. 6h. (studio) 2u.
10	<b>Architectural Design I: Foundations of Design.</b> Design fundamentals involving basic spatial & creative design problems. 4h. (1 lec, 3 studio) 2u.
16	<b>History, Theory &amp; Criticism I: Introduction to Architecture.</b> A study of theories & texts that have influenced the analysis & the production of architectural form. 2h. (lec) 2u.
17	<b>History, Theory &amp; Criticism II: Philippine Architecture.</b> 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	<b>History, Theory &amp; Criticism III: Architecture of Asia &amp; the Pacific.</b> A diachronic study of the architecture of Asia & the Pacific with focus on related theoretical issues. Prereq: Arch 17. 2h. (lec) 2u.
19	<b>History, Theory &amp; Criticism IV: World Architecture.</b> 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	<b>Architectural Design II: Design &amp; Intra-personal Spaces.</b> Design exercises involving the body, movements & experiences. Prereq: Arch 10. 4h. (1 lec, 3 studio) 2u.
21	<b>Architectural Design III: Design &amp; Inter-personal Spaces.</b> 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	<b>Architectural Design IV: Design &amp; Social Space.</b> Design exercises relating architecture with ethical, political & cultural concerns. Prereq: Arch 21. 9h. (studio) 3u.
23	<b>Building Construction I: Materials of Building Technology.</b> Materials of construction, their properties, use & applications, & emerging applications; preparation of specifications. Prereq: 2nd yr. standing. 5h. (2 lec, 3 lab) 3u.
24	<b>Building Construction II: Simple Frame Construction.</b> 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	<b>Architectural Structures III: Statics &amp; Strength of Materials for Buildings.</b> 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	<b>Architectural Design V: Site Context &amp; Architecture.</b> Design exercises highlighting the role of context in the creative process of the environment. Prereq: Arch22; Coreq: Arch60. 9h.(studio) 3u.
32	<b>Architectural Design VI: Architecture, Technology &amp; the Environment.</b> Design exercises emphasizing the relationships among architecture, technology & the environment, while addressing economy & sustainability concerns. Prereq: Arch 31. 9h. (studio) 3u.
33	<b>Building Construction III: Heavy Frame Construction.</b> Construction methods & drawings for heavy reinforced concrete & steel structures showing their structural, electrical, plumbing & mechanical systems. Prereq: Arch 24. 9h. (studio) 3u.
35	<b>Utilities I: Plumbing &amp; Sanitary Services in Buildings.</b> Principles & practices of sanitary installations in buildings & their environment. Prereq: Arch 24, Physics 71. 3h. (lec) 3u.
55	<b>Design with Nature: Tropical Design.</b> 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	<b>Practice &amp; Governance I: Building Laws.</b> Legal obligations & responsibilities of the architect; building contracts; the building code & related laws on land development & human settlements. 3h. (lec) 3u.
60	<b>Planning &amp; Urban Design I: Site Planning &amp; Landscape Architecture.</b> The artistic & functional arrangement of buildings; enhancement & design techniques for exterior environments. Coreq: Arch 31. 3h. (lec) 3u.
75	<b>Architectural Research: Basic Research Methods in Architecture.</b> Quantitative & operational methods in architectural design research, user-requirement & performance in use analysis. Prereq: 2nd yr. standing. 2h. (lec) 2u.
105*	<b>Architectural Communication VII: Theory of Color.</b> Physical & psychological properties of color, their relevance to defining space, form & textures. Prereq: Arch 3. 3h. (lec) 3u.
128*	<b>Architectural Structures VI: Laboratory in Architectural Structures.</b> Models, simulation & statistical experiments on the durability, stability & strength of building structures. Prereq: Arch 28. 3h. (studio) 1u.
134	<b>Building Construction IV: Building Systems &amp; Technology.</b> 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	<b>Utilities II: Mechanical &amp; Electrical Systems of Buildings.</b> Mechanical & electrical systems in buildings, their design, equipment, installation & maintenance. Prereq: Math 53, Physics 72. 3h. (lec) 3u.
140*	<b>Utilities VI: Utilities for Building Interiors.</b> Principles & applications of environmental control & sanitation, the relations to building interiors. Prereq: 4th yr. standing. 3h. (lec) 3u.
141	<b>Architectural Design VII: Integrative Design Project I.</b> 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	<b>Architectural Design VIII: Integrative Design Project II.</b> 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	<b>Utilities III: Architectural Lighting.</b> The psycho-physics of daylighting & artificial illumination in buildings, their measurement, analysis & design. Prereq: Physics 72. 5h. (2 lec, 3 lab) 3u.
144*	<b>Architectural Communication VIII: Color Dynamics.</b> Kinetic, perceptual & cultural constraints in the use of color in architecture. Prereq: Arch 3, 20. 2h. (lec) 2u.
147	<b>Utilities IV: Architectural Acoustics.</b> The psycho-physics of acoustics in buildings & their immediate environment; their measurement, analysis & design. Prereq: Physics 72. 5h. (2lec, 3lab) 3u.
148*	<b>Utilities VII: Environmental Lighting.</b> The lighting of building exteriors, parks, playfields & roadways for aesthetics & safety; their measurement, analysis, design & maintenance. Prereq: Arch 136, 143. 2h (lec) 2u.
149*	<b>Utilities VIII: Environmental Acoustics.</b> Sound & noise control in building site & urban areas. Prereq: Arch 147. 3h. (lec) 3u.
153*	<b>Architectural Design XI: Architectural Manufacturing.</b> 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*	<b>Architectural Design XII: Evaluation of Architectural Design.</b> Studies of Architectural forms, systems, components, & details in relation to production efficiency, environmental criteria, use & maintenance. Prereq: senior standing. 3h. (lec) 3u.
158	<b>Practice &amp; Governance II: Professional Services of the Architect.</b> 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	<b>Practice &amp; Governance III: Finance, Taxation, Civics &amp; Land Reform for Architects.</b> 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	<b>Planning &amp; Urban Design II: Fundamentals of Urban Design &amp; Community Architecture.</b> Order, culture & expression for design of exterior architecture in towns & cities. Prereq: Arch 60 or equivalent. 3h. (lec) 3u.
162	<b>Planning &amp; Urban Design III: Introduction to Urban &amp; Regional Planning.</b> Concepts, trends, methods & techniques in urban planning; overview of land use on planning of regions. Prereq: Arch 161. 3h. (lec) 3u.
163	<b>Planning &amp; Urban Design IV: Socio-Cultural &amp; Institutional Aspects of Housing.</b> Socio-cultural & institutional challenges for effective delivery of housing. Prereq: Arch 162. 3h. (lec) 3u.
166*	<b>Architectural Communication IX: Architectural Photography.</b> Photographic techniques applied to architectural presentation. Prereq: junior standing. 5h. (2 lec, 3 studio) 3u.
168*	<b>Architectural Communication X: Model-Making for Building Interiors.</b> Development of interior design concepts & furniture layout with the use of scaled models. Prereq: junior standing. 5h. (2 lec, 3 studio) 3u.
171	<b>Architectural Structures: Form-Finding in Structures I.</b> Application of statics & analysis of material strength in form-finding in buildings. Prereq: Arch 28, 24. 6h. (3 lec, 3 lab) 4u.
172	<b>Architectural Structures: Form-Finding in Structures II.</b> 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	<b>Utilities V: Health &amp; Safety in Buildings.</b> Design parameters for accessible, healthful & safe architectural spaces & environments. Prereq: Arch 35, 136. 2h. (lec) 2u.
199.1	<b>Architectural Design IX: A Comprehensive Design Project (Pre-design to Schematic).</b> 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	<b>Architectural Design X: A Comprehensive Design Project (Design Development).</b> 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.