

Alangilan Campus

Golden Country Homes, Alangilan Batangas City, Batangas, Philippines 4200 Tel Nos.: (+63 43) 425-0139 local 2822

E-mail Address: cafad@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Architecture Fine Arts and Design

CURRICULUM

Bachelor of Science in Architecture (BSArchi)

Academic Year 2023-2024

Reference CMOs: CMO No. 39 s. 2021, CMO No. 40 s. 2021 and CMO No. 20, s. 2021, CMO No. 61 s. 2071 CMO No. 4 s. 2018

Curriculum Description

Architectural education is concerned with providing the students with comprehensive knowledge, skill and competence in architecture and their total growth and development within the framework of democratic ideals and values; and the preservation, conservation, and promotion of the Filipino architecture heritage within the global context, thus making the architecture curriculum relevant to the present needs and latest international trends. The program includes general education, Technical Courses (mathematics, natural sciences, basic engineering sciences, professional, allied, and technical elective courses, architecture comprehensive course and non-academic courses-PE and NSTP).

Program Educational Objectives of Architecture

The Architecture alumni three to five years after graduation shall:

- 1. Be knowledgeable of the comprehensive architectural services, both in theory and practice.
- 2. Address the needs and demands of society and integrates himself to the social, economic, cultural and environmental aspects of nation building;
- 3. Practice the basic philosophy and the fundamental principles of the multi-dimensional aspects of architecture, understanding of the direct relationship between man and its environment
- 4. Adhere to professional, moral and ethical standards in the practice of Architecture.

Institutional Graduate Attributes

The student should achieve at least 75% for each IGA upon graduation.

- 1. **Knowledge Competence.** Demonstrate a mastery of the fundamental knowledge and skills required for functioning effectively as a professional in the discipline, and an ability to integrate and apply them effectively to practice in the workplace.
- 2. **Creativity and Innovation.** Experiment with new approaches, challenge existing knowledge boundaries and design novel solutions to solve problems.
- 3. **Critical and Systems Thinking.** Identify, define, and deal with complex problems pertinent to the future professional practice or daily life through logical, analytical and critical thinking.
- 4. **Communication.** Communicate effectively (both orally and in writing) with a wide range of audiences, across a range of professional and personal contexts, in English and Pilipino.
- 5. **Lifelong Learning.** Identify own learning needs for professional or personal development; demonstrate an eagerness to take up opportunities for learning new things as well as the ability to learn effectively on their own.
- 6. **Leadership, teamwork, and Interpersonal Skills**. Function effectively both as a leader and as a member of a team; motivate and lead a team to work towards goal; work

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collaboratively with other team members; as well as connect and interact socially and effectively with diverse culture.

- 7. **Global Outlook**. Demonstrate an awareness and understanding of global issues and willingness to work, interact effectively and show sensitivity to cultural diversity.
- 8. **Social and National Responsibility**. Demonstrate an awareness of their social and national responsibility; engage in activities that contribute to the betterment of the society; and behave ethically and responsibly in social, professional and work environments.

Student Outcomes

The following skills, knowledge, and behavior are expected to be attained by students as they progress through the program:

- a. Ability to apply knowledge of architectural engineering and building technology to solve design problems
- b. Ability to function on multidisciplinary teams
- c. Understanding of professional and ethical responsibility
- d. Ability to communicate effectively through various forms of ICT media for design concept presentation and prepare technical reports and project documentation through oral and written communication.
- e. Broad education necessary to understand the impact of architecture design solutions in a global, economic, environmental, and societal context
- f. Recognition of the need for, and an ability to engage in continuous professional learning
- g. Ability to use techniques, skills, and modern architecture tools necessary for architecture practice
- h. Awareness to the laws, rules and regulations relevant to the practice of architecture.

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CURRICULUM COMPONENTS

Classification/Field/Course	No. o	No. of Hours/Week				
Classification/ Field / Course	Lec	Lab	Studio	Units		
I. TECHNICAL COURSES						
A. Mathematics						
Solid Mensuration	2	0	0	2		
Differential and Integral Calculus	3	0	0	3		
Fundamentals of Physics	3	3	0	4		
Sub-Total	8	3	0	9		
B. Basic Engineering Courses						
Mechanics of Rigid Bodies	3	0	0	3		
Mechanics of Materials	3	0	0	3		
Theory of Structures for Architects	3	0	0	3		
Steel and Timber Design	3	0	0	3		
Architectural Structures	3	0	0	3		
Surveying	2	3	0	3		
Sub-Total	17	3	0	18		
C. Allied Courses	17		U	10		
Architectural Visual Communications 1 - Graphics 1	1	0	6	3		
Architectural Visual Communications 3 - Graphics 2	1	0	6	3		
Architectural Visual Communications 3 - Graphics 2 Architectural Visual Communications 2 - Visual	1	U	0			
Techniques 1	1	0	3	2		
Architectural Visual Communications 4 - Visual	_	-				
Techniques 2	1	0	3	2		
Architectural Visual Communications 5 - Visual						
Techniques 3	1	0	3	2		
Sub-Total	5	0	21	12		
D. Professional Courses						
Architectural Design 1- Introduction to Design	2	0	3	3		
Architectural Design 2- Creative Design and						
Fundamentals	2	0	3	3		
Architectural Design 3- Creative Design in Architectural Interiors	1	0	6	3		
	1	0	6	3		
Architectural Design 4- Space Planning 1 Architectural Design 5- Space Planning 2	1	0	9	4		
Architectural Design 5- Space Planning 2 Architectural Design 6- Site Development Planning and	1	U	9	4		
Landscaping	1	0	9	4		
Architectural Design 7- Community Architecture and		0				
Urban Design	1	0	12	5		
Architectural Design 8- Design of Complex Complex						
Structures	1	0	12	5		
Architectural Design 9- Thesis Research Writing	1	0	12	5		
Architectural Design 10- Thesis Research Application	1	0	12	5		
Architectural Interiors	1	0	3	2		
Theory of Architecture 1	1	0	3	2		
Theory of Architecture 2	2	0	0	2		
Building Technology 1 - Building Materials	3	0	0	3		

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Duilding Technology 2 Construction Drawings in				
Building Technology 2 - Construction Drawings in Wood, Steel and Concrete (1-Storey)	2	0	3	3
Building Technology 3 - Construction Drawings in				
Wood, Steel and Concrete (2 Storey Residential	2	0	3	3
Structure)	_			
Building Technology 4 - Specification Writing and				
Quantity Surveying	2	0	3	3
Building Technology 5 - Alternative Building				3
Construction Systems	2	0	3	3
Building Utilities 1 - Plumbing and Sanitary System	2	0	3	3
Building Utilities 2 (BU 2) - Electrical, Electronics and				
Mechanical Systems	2	0	3	3
Building Utilities 3 (BU 3) - Acoustics and Lighting				2
Systems	2	0	3	3
History of Architecture 1	2	0	0	2
History of Architecture 2	2	0	0	2
History of Architecture 3	2	0	0	2
History of Architecture 4	2	0	0	2
Professional Practice 1 (Laws Affecting the Practice of				
Architecture)	3	0	0	3
Professional Practice 2 (Administering the Regular				2
Services of the Architect)	3	0	0	3
Professional Practice 3 (Global Practice in the 21st Century)	3	0	0	3
	3	0	0	3
Planning 1 - Site Planning & Landscape Architecture Planning 2 - Fundamentals of Urban Design and	3	U	U	3
Community Architecture	3	0	0	3
Planning 3 - Introduction to Urban and Regional	3	U	0	
Planning	3	0	0	3
Computer-Aided Design & Drafting for Architecture 1	1	3	0	2
Computer-Aided Design & Drafting for Architecture				
2/BIM	1	3	0	2
Research Methods for Architecture	3	0	0	3
Tropical Design	2	0	0	2
Housing	2	0	0	2
Business Management & Application for Architecture 1	3	0	0	3
Business Management & Application for Architecture 2	3	0	0	3
Architectural Comprehensive Course	3	0	0	3
Sub-Total	77	6	111	116
Specialization Courses	,,	U	111	110
*Specialization 1 (Geographic Information System)	3	0	0	3
*Specialization 2 (Sustainable Design)	3	0	0	3
*Specialization 3 (Project Management)	3	0	0	3
Internship (OJT)	0	0	200	2
Sub-Total	9	0	200	11
Total Technical Courses	116	12	332	166
II. NON-TECHNICAL COURSES	<u> </u>	1	<u> </u>	
A. General Education Courses	_	_	_	
Understanding the Self	3	0	0	3

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Readings in Philippine History	3	0	0	3
Mathematics in the Modern World	3	0	0	3
Contemporary World	3	0	0	3
Ethics	3	0	0	3
Science, Technology and Society	3	0	0	3
Purposive Communication	3	0	0	3
Art Appreciation	3	0	0	3
Sub-Total	24	0	0	24
B. Mandated Subjects				
Filipino 1 (Kontekstwalisadong Komunikasyon sa				
Filipino)	3	0	0	3
Filipino 2 (Filipino sa Iba't Ibang Disiplina)	3	0	0	3
ASEAN Literature	3	0	0	3
Life and Works of Rizal	3	0	0	3
Sub-Total	12	0	0	12
C. Physical Activities Toward Health and Fitness				
PATHFit 1 (Movement Competency Training)	2	0	0	2
PATHFit 2 (Exercise-based Fitness Activities)	2	0	0	2
PATHFit 3 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu offering: Traditional and Recreational Games	2	0	0	2
PATHFit 4 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu offering: Team Sports (Basketball and Volleyball)	2	0	0	2
Sub-total	8	0	0	8
D. National Service Training Program				
NSTP 111	3	0	0	3
NSTP 121	3	0	0	3
Sub-Total	6	0	0	6
Total (Non-Technical Courses)	14	0	0	14
GRAND TOTAL	166	12	332	216

SUMMARY								
Courses	Number of Units							
I. Technical Courses								
A. Mathematics	9							
B. Basic Engineering Courses	18							
C. Allied Courses	12							
D. Professional Courses	116							
Specialization Courses	11							
II. Non- Technical Courses								
A. General Education Courses	24							
B. Filipino/Literature/Mandated Courses	12							
C. PATHFit 1-4	6							
D. NSTP	8							
Grand Total	216							



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PROGRAM OF STUDY

	FI	RST Y	EAR				
	Fir	rst Sem	ester				
Course	C Tru	No	of Ho	ur/s	T T 1//	Pre-	Co-
Code	Course Title	Lec	Lab	Stud	Unit/s	requisite/s	requisite/s
Math 405	Solid Mensuration	2	0	0	2		
GEd 101	Understanding the Self	3	0	0	3		
GEd 108	Art Appreciation	3	0	0	3		
ARCH 501	Architectural Design 1- Introduction to Design	2	0	3	3		
ARCH 502	Architectural Visual Communications 1 - Graphics 1	1	0	6	3		
ARCH 503	Architectural Visual Communications 2 - Visual Techniques 1	1	0	3	2		
ARCH 504	Theory of Architecture 1	1	0	3	2		
ARCH 505	History of Architecture 1	2	0	0	2		
PATHFit 1	Movement Competency Training	2	0	0	2		
NSTP 111	National Service Training Program 1	3	0	0	3		
	Total	20	0	15	25		
	FI	RST Y	EAR				
	Sec	ond Se	mester				
Course	Course Title	No	of Ho	ur/s	Unit/s	Pre-	Co-
Code		Lec	Lab	Stud	Ullius	requisite/s	requisite/s
Math 406	Differential and Integral Calculus	3	0	0	3	Math 405	
ARCH 506	Architectural Design 2- Creative Design and Fundamentals	2	0	3	3	ARCH 501, ARCH 504	
ARCH 507	Building Technology 1 - Building Materials	3	0	0	3		
ARCH 508	Architectural Interiors	1	0	3	2	ARCH 504	ARCH 507
ARCH 509	Architectural Visual Communications 3 - Graphics 2	1	0	6	3	ARCH 502	
ARCH 510	Architectural Visual Communications 4 - Visual Techniques 2	1	0	3	2	ARCH 503	
ARCH 511	Theory of Architecture 2	2	0	0	2	ARCH 504	
ARCH 512	History of Architecture 2	2	0	0	2	ARCH 505	
PATHFit 2	Exercise-based Fitness Activities	2	0	0	2	PATHFit 1	
NSTP 121	National Service Training Program 2	3	0	0	3	NSTP 111	
	Total	20	0	15	25		



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	SEC	COND	YEAR				
	Fir	st Sem	ester				
Course	C T'4	No	of Ho	ur/s	Unit/s	Pre-	Co-
Code	Course Title	Lec	Lab	Stud	Unit/S	requisite/s	requisite/s
	Architectural Design 3-					ARCH 506,	
ARCH 513	Creative Design in Architectural Interiors	1	0	6	3	ARCH 511, ARCH 508	
GEd 102	Mathematics in the Modern World	3	0	0	3		
GEd 106	Purposive Communication	3	0	0	3		
SCI 405	Fundamentals of Physics	3	3	0	4		
ARCH 514	Building Utilities 1 - Plumbing and Sanitary System	2	0	3	3		
ARCH 515	Architectural Visual Communications 5 - Visual Techniques 3	1	0	3	2	ARCH 510	
ARCH 516	Tropical Design	2	0	0	2		
ARCH 517	History of Architecture 3	2	0	0	2	ARCH 512	
GEd 105	Readings in Philippine History	3	0	0	3		
PATHFit 3	Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu offering: Traditional and Recreational Games	2	0	0	2	PATHFit 1 and 2	
	Total	22	3	12	27		

SECOND YEAR

Second Semester

Course	Course Title	No. of Hour/s			Unit/s	Pre-	Co-
Code	Course Title	Lec	Lab	Stud	Umus	requisite/s	requisite/s
ARCH 518	Architectural Design 4- Space Planning 1	1	0	6	3	ARCH 513	ARCH 522
Fili 101	Kontekstwalisadong Komunikasyon sa Filipino	3	0	0	3		
GEd 107	Ethics	3	0	0	3		
ENGG 419	Mechanics of Rigid Bodies	3	0	0	3	SCI 405	
CE 421	Surveying	2	3	0	3		
ARCH 520	History of Architecture 4	2	0	0	2	ARCH 517	
ARCH 521	Building Technology 2 - Construction Drawings in Wood, Steel and Concrete (1- Storey)	2	0	3	3	ARCH 507, ARCH 514	
ARCH 522	Professional Practice 1 (Laws Affecting the Practice of Architecture)	3	0	0	3		
PATHFit 4	Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu offering: Team Sports (Basketball and Volleyball)	2	0	0	2	PATHFit 1 and 2	
	Total	21	3	9	25		

Certificate in Drafting Technology shall be granted upon completion of all prescribed courses from 1st year -1st semester to 2nd year-2nd semester



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	TH	IIRD Y	EAR																			
	Fir	st Sem	ester																			
Course	G TEVI	No	of Ho	ur/s	TT *4/	Pre-	Co-															
Code	Course Title	Lec	Lab	Stud	Unit/s	Unit/s	requisite/s	requisite/s														
ARCH 523	Architectural Design 5- Space Planning 2	1	0	9	4	ARCH 518																
ENGG 420	Mechanics of Materials	3	0	0	3	ENGG 419																
ARCH 524	Building Utilities 2 (BU 2) - Electrical, Electronics and Mechanical Systems	2	0	3	3	ARCH 514																
ARCH 525	Computer-Aided Design and Drafting for Architecture 1	1	3	0	2	ARCH 515																
ARCH 526	Building Technology 3 - Construction Drawings in Wood, Steel and Concrete (2 Storey Residential Structure)	2	0	3	3	ARCH 521, ARCH 514	ARCH 524															
Fili 102	Filipino sa Iba't Ibang Disiplina	3	0	0	3																	
ARCH 527	Professional Practice 2 (Administering the Regular Services of the Architect)	3	0	0	3	ARCH 522																
	Total	15	3	15	21																	
	TH	IIRD Y	EAR																			
	Seco	ond Sei	mester																			
Course	Course Title	No	. of Hour/s		o. of Hour/s				I Init/a	Pre-	Co-											
Code	Course Title	Lec	Lab	Stud	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	Unit/s	requisite/s	requisite/s
GEd 103	Life and Works of Rizal	3	0	0	3																	
ARCH 528	Architectural Design 6- Site Development Planning and Landscaping	1	0	9	4	ARCH 523																
ARCH 529	Computer-Aided Design and Drafting for Architecture 2/BIM	1	3	0	2	ARCH 525																
CE 422	Theory of Structures for Architects	3	0	0	3	ENGG 409																
ARCH 530	Building Technology 4 - Specification Writing and Quantity Surveying	2	0	3	3	ARCH 526, ARCH 524	ARCH 531															
	Building Utilities 3 (BU 3) - Acoustics and Lighting	2	0	3	3	ARCH 524																
ARCH 531	Systems	_																				

 $Certificate \ in \ CADD \ shall \ be \ granted \ after \ completion \ of \ all \ prescribed \ courses \ from \ 1st \ year - 1st \\ semester \ to \ 3rd \ year - 2nd \ semester$

15

Total

15

ARCH 516

Landscape Architecture



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FOURTH YEAR											
First Semester											
Course	Course Title	No.	of Ho	ur/s	Unit/s	Pre-	Co-				
Code	Course Title	Lec	Lab	Stud	Umus	requisite/s	requisite/s				
ARCH 533	Architectural Design 7- Community Architecture and Urban Design	1	0	12	5	ARCH 528					
CE 423	Steel and Timber Design	3	0	0	3	CE 422					
ARCH 535	Building Technology 5 - Alternative Building Construction Systems	2	0	3	3	ARCH 526					
ARCH 536	Planning 2 - Fundamentals of Urban Design and Community Architecture	3	0	0	3	ARCH 532					
ARCH 537	Research Methods for Architecture	3	0	0	3	4th year standing					
ARCH 538	Professional Practice 3 (Global Practice in the 21st Century)	3	0	0	3	ARCH 527					
GEd 104	The Contemporary World	3	0	0	3						
	Total	18	0	15	23						

Certificate in Building Technology and Utilities shall be granted after completion of all prescribed courses from 1st semester to 4th year - 1st semester

	FOU	JRTH	YEAR					
	Seco	ond Sei	nester					
Course	Course Title	No	. of Hou	ır/s	I Init/a	Pre-	Co-	
Code	Course Title	Lec	Lab	Stud	Unit/s	Unit/s	requisite/s	requisite/s
ARCH 539	*Specialization 1 (Geographic Information System)	3	0	0	3	ARCH 533		
ARCH 540	Planning 3 - Introduction to Urban and Regional Planning	3	0	0	3	ARCH 536		
ARCH 541	Architectural Design 8- Design of Complex Complex Structures	1	0	12	5	ARCH 533, 4th year standing		
GEd 109	Science Technology and Society	3	0	0	3			
Litr 102	ASEAN Literature	3	0	0	3			
	Total	13	0	12	17			
	FOU	J RTH	YEAR					
		Midter	m					
Course	Course Title	N	o. Hou	r/s	Unit/s	Pre-	Co-	
Code	Course Tiue	Lec	Lab	Stud	Unit/s	requisite/s	requisite/s	
ARCH 542	Internship (OJT)	0	0	200	2	All courses in 1st year - 4th year level		
	Total	0	0	200	2			



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	Fir	st Sem	ester							
Course	Course Title	No	of Ho	ur/s	Unit/s	Pre-	Co-			
Code	Course Title	Lec	Lab	Stud	Cings	requisite/s	requisite			
ARCH 543	Architectural Design 9- Thesis Research Writing	1	0	12	5	All courses in 1st year - 4th year level				
ARCH 544	Architectural Structures	3	0	0	3	CE 423				
ARCH 545	Housing	2	0	0	2	ARCH 522				
ARCH 546	Business Management and Application for Architecture 1	3	0	0	3	ARCH 538	ARCH 547			
ARCH 547	*Specialization 2 (Project Management)	3	0	0	3	ARCH 539				
	Total	12	0	12	16					
	FI	FTH Y	EAR							
	Seco	ond Sei	mester							
Course	Course Title	No. of Hour/s			No. of Hour/s			I Init/c		Со-
Code	Course Tide	Lec	Lab	Stud	Unit/s	requisite/s	requisite/s			
ARCH 548	Architectural Design 10- Thesis Research Application	1	0	12	5	ARCH 543				
ARCH 549	Business Management & Application for Architecture 2	3	0	0	3	ARCH 546				
ARCH 550	*Specialization 3 (Sustainable Design)	3	0	0	3	ARCH 547				
ARCH 551	Architectural Comprehensive Course	3	0	0	3	Graduating				
	Total	10	0	12	14					
GR	AND TOTAL UNITS	166	12	332	216					