

CURRICULUM IN ARCHITECTURE

1. Description of the undergraduate program

1.1 Introduction

The Architecture curriculum trains architects with sufficient knowledge, skills, political qualities, ethics, professional behavior, and good health to be able to work effectively in various fields related to architecture.

1.2 General information

Program name	Architecture
Training program code	52580102
Issuing university	Nam Can Tho University
Degree name	Architect
Level of training	University
Required credits	167
Training form	Full-time
Training duration	5 years
Admission requirements	High school graduates
Grading scale	5
Graduation requirements	<ul style="list-style-type: none">- Students must have accumulated enough credits and completed all the required courses of the training program, with a total of 167 credits;- Students must have a cumulative grade point average (GPA) of 5.0 or higher for all courses throughout the entire program;- Students must meet the university's general requirements for English and computer proficiency standards;- Students must meet the program's requirements for soft skills and professional skills;- Students must have completed the national defense and security education program and fulfilled all the required courses.
Job positions	<ul style="list-style-type: none">- Experts and technicians working at design companies, enterprises operating in the field of construction - design - planning, construction organizations, inspection and construction-related companies, and architecture construction.- Officials working at agencies, governmental/non-governmental organizations, management, research, and appraisal companies related to construction and architecture.

	- Staff and assistants working at scientific and technical education and training units related to the field of architecture
Advanced education and training	Graduates can pursue master's and doctoral degrees both domestically and internationally.
Reference curriculum	University of Architecture Ho Chi Minh City, Van Lang University, Hong Bang University
Time of updating	12/2022

1.3 Training objectives

1.3.1. General objectives

The Architecture curriculum trains architects to have enough knowledge, skills, political qualities, ethics, professional behavior, and good health to be able to work effectively in related fields. The undergraduate architecture program provides students with an overview of politics, the military, natural sciences, and specialized knowledge of Architecture. Therefore, students can develop soft skills and professional skills corresponding to the major in Architecture. In addition, students are supported and guided to form and develop political personalities and ethics. The undergraduate Architecture program provides graduates with an overview of politics, the military, the natural sciences, and specialized knowledge of Architecture.

1.3.2 Detailed objectives

M1: Understanding and applying the foundational and in-depth knowledge of the field of Architecture to professional work.

M2: Forming professional ideas in Architecture and developing the capacity to manage and run work on an individual and collective scale.

M3: Meet the requirements of professional skills, and soft skills from society, working and research environment.

M4: Organizing and implementing professional architectural activities, thereby developing creative capacity at work.

M5: Forming the ability to self-study and self-research in the professional field, thereby developing the corresponding competencies in the whole life and guiding the people around and changing and improving their lives.

2. Training duration: 5 years

3. The total credit volume of the course: 167 credits (excluding Physical Education and National Defense - Security courses), distributed as follows:

KNOWLEDGE VOLUME	Compulsory knowledge	Elective knowledge	Total
General education knowledge	29	0	29
Professional education knowledge	138	14	138
- Basic knowledge of the field	36	2	38
- Specialized knowledge	55	33	88
- Graduation internship	4		4
- Graduation thesis/Alternative courses		8	8
Total credit volume	121	16	167

4. Admission requirements

- Admission is based on the results of the National High School Graduation Examination or the evaluation of academic records at the high school level in accordance with the combination of subjects for each major and admission is open nationwide.

5. Training process and graduation requirements

5.1 Training process

- Implement the university and college training regulations in the credit system and the current training regulations of Nam Can Tho University.

5.2 Graduation requirements

- Students who complete the training program are evaluated for graduation and recognized as graduates according to Article 27 of the credit-based training regulations.

- Attain the required level of English and computer skills in accordance with the university's general regulations (in terms of computer skills, students must attain modules 01 to 06 of the standard for using information technology skills according to Circular 03/2014/TT-BTTTT)

- Obtain certificates in National Defense-Security Education, Physical Education, Soft Skills, and Professional Skills.

- Evaluate the sectional score and course grade according to Articles 22 and 23 of the credit-based training regulations.

- Academic rankings and graduation rankings are determined in accordance with Articles 14 and 28 of the credit-based training regulations.

6. Curriculum Content

6.1 General education knowledge

No.	Course code	Course name	Credits	Lecture	Practice	Type
A	Political theory		12			
1	0101000889	Marxist-Leninist philosophy	3	3		REQ
2	0101000641	Political Economy	2	2		REQ
3	0101000890	Science socialism	2	2		REQ
4	0101000900	Ho Chi Minh Ideology	2	2		REQ
5	0101000869	History of the Communist Party of Vietnam	3	3		REQ
B	Humanities and Social Sciences		2			
6	0101000891	Introduction to law	2	2		REQ
C	Foreign Language		9			
7	0101000861	General English 1	3	3		REQ
8	0101000862	General English 2	3	3		REQ
9	0101000168	Specialized English for Architecture	3	3		REQ
D	Math, Informatics, Natural Science		6			
10	0101000898	Advanced Math 1	3	3		REQ
11	0101000896	Basic Informatics	3	2	1	REQ
E	Physical Education		3			
12	0101000872	Physical Education 1 (*)	1		1	COND
13	0101000873	Physical Education 2 (*)	1		1	COND

No.	Course code	Course name	Credits	Lecture	Practice	Type
14	0101000874	Physical Education 3 (*)	1		1	COND
F	Defense and security education		8			
15	0101000871	Defense and security education (*)	8		8	COND

(*) Conditional courses, cumulative GPA is not calculated

6.2 Professional education knowledge volume

No.	Course code	Course name	Credits	Lecture	Practice	Type
Basic knowledge of the field			36+2			
1	0102000078	Descriptive geometry	3	3		REQ
2	0101000274	Introductory Architecture	2	2		REQ
3	0101000970	Art 1	2		2	REQ
4	0101000077	Art 2	2		2	REQ
5	0101000099	Sculpture	2		2	REQ
6	0101000287	Construction Materials	2	2		REQ
7	0101000442	Construction Materials - Practice	1		1	REQ
8	0101000567	Architectural Basic Exercises 1	2		2	REQ
9	0101000942	Architectural Basic Exercises 2	2		2	REQ
10	0101000295	Architectural Basic Exercises 3	2		2	REQ
11	0101000296	Architectural drawing	2		2	REQ
12	0101000297	Architectural structure 1	2	2		REQ
13	0101001070	Architectural structure 2	2	2		REQ
14	0101001069	Architectural structure 3	2	2		REQ
15	0101000417	Architectural structure 4	2	2		REQ
16	0101000966	Engineering mechanics	3	3		REQ
17	0101000416	Construction structure	3	3		REQ
18	0101000354	General Aesthetics	2	2		ELEC
19	0101000327	Art history	2	2		ELEC
Specialized knowledge			55+33			
20	0101000315	Applied Informatics 1- Autocad	3	1	2	REQ
21	0101000328	Applied Informatics 2- Revit	3		3	REQ
22	0101000207	History of Eastern and Vietnamese architecture	3	2		REQ
23	0101001346	Principles of public building design	3	3		REQ
24	0101001072	Principles of residential	2	2		REQ

No.	Course code	Course name	Credits	Lecture	Practice	Type
		architectural design				
25	0101000123	Principles of industrial architectural design	2	2		REQ
26	0101000348	Basic composition project	2		2	REQ
27	0101000241	Urban planning	2	2		REQ
28	0101001071	Urban planning-Projects	1		1	REQ
29	0101000465	Construction equipment system 1 (lighting)	2	2		REQ
30	0101000224	Construction equipment system 2 (water supply and drainage)	2	2		REQ
31	0101001076	Architectural optics	2	2		REQ
32	0101000190	Architectural acoustics	2	2		REQ
33	0101001393	Architectural climate	2	2		REQ
34	0101000197	Shaping layout	2	2		REQ
35	0101001394	Quick Design 1	1		1	REQ
36	0101001074	Quick Design 2	1		1	REQ
37	0101000228	Quick Design 3	1		1	REQ
38	0101000223	Theme 1: Shaping - architectural decoration	2	2		REQ
39	0101000199	Theme 2: Architecture and environment	2	2		REQ
40	0101000292	Topic 3: Structure of high-rise buildings	2	2		REQ
41	0102000034	Theme 4: Foreign contemporary architecture	2	2		REQ
42	0102000138	Organization of construction	2	2		REQ
43	0102000102	Construction Engineering	2	2		REQ
44	0102000112	Law on construction and architecture	3	3		REQ
45	0102000011	Preserving architectural heritage	2	2		REQ
46	0102000123	Methods of research and writing scientific reports	2	2		REQ
47	0102000051	Project 1A: Housing 1 – Type of villa	3	1	2	ELEC
48	0102000052	Project 1B: Housing 2 – Type of townhouses	3	1	2	ELEC
49	0102000053	Project 2A: Public house 1 – Type of public service	3	1	2	ELEC

No.	Course code	Course name	Credits	Lecture	Practice	Type
50	0102000054	Project 2B: Public house 1 – Type of living service	3	1	2	ELEC
51	0102000055	Project 3A: Public house 2 – Administrative type	3	1	2	ELEC
52	0102000056	Project 3B: Public House 2 – Type of Transport (Terminal, Bus Station, Metro)	3	1	2	ELEC
53	0102000057	Project 4A: Public house 3 – Commercial type	3	1	2	ELEC
54	0102000058	Project 4B: Public house 3 – Type of culture	3	1	2	ELEC
55	0102000059	Project 5A: Housing 2 + Furniture – Type of Apartment Building	3	1	2	ELEC
56	0102000060	Project 5B: Housing 2 + Furniture – Type of Office House	3	1	2	ELEC
57	0102000061	Project 6A: Public house 4 – Type of Education	3	1	2	ELEC
58	0102000062	Project 6B: Public house 4 – Medical type	3	1	2	ELEC
59	0102000063	Project 7A: Industrial house 1 – (Natural)	3	1	2	ELEC
60	0102000064	Project 7B: Industrial House 2– (Artificial)	3	1	2	ELEC
61	0102000065	Project 8A: Public house 5 + Exterior – Type of sport	3	1	2	ELEC
62	0102000066	Project 8B: Public house 5 + Exterior – Type of culture	3	1	2	ELEC
63	0102000067	Project 9A: Residential area planning	3	1	2	ELEC
64	0102000068	Project 9B: Planning of the administrative center	3	1	2	ELEC
65	0102000070	General project A: High-rise apartment building	4	1	3	ELEC
66	0102000071	General project B: Office building	4	1	3	ELEC
67	0102001055	Tropical climate architecture	2	2		ELEC
68	0102001526	Landscape architecture	2	2		ELEC
Graduation practicum			4			
69	0102000151	Graduation practicum	4		4	REQ

No.	Course code	Course name	Credits	Lecture	Practice	Type
Graduation thesis/Alternative courses			6			
70	0102000151	Graduation Project (Undergraduate Architecture)	8		8	ELEC
71	0101000219	Feng Shui	2	2		ELEC
72	0101000191	Thematic synthetic	6		6	ELEC

7. Teaching Plan (expected)

7.1 Semester 1

No.	Course name	Credits	Total number of class periods	Class period		Type
				Lec.	Prac.	
1	Descriptive geometry	3	45	45		REQ
2	Introductory Architecture	2	30	30		REQ
3	General English 1	3	45	45		REQ
4	Defense and security education	8	165	75	90	COND
5	Physical Education 1	1	30		30	COND
6	Marxist - Leninist Philosophy	3	45	45		REQ
7	Advanced Math 1	3	45	45		REQ
Total		14				

7.2 Semester 2

No.	Course name	Credits	Total number of class periods	Class period		Type
				Lec.	Prac.	
1	Architectural Basic Exercises 1	2	60		60	REQ
2	Architectural structure 1	2	30	30		REQ
3	Art 1	2	60		60	REQ
4	Architectural drawing	2	60		60	REQ
5	Marxist - Leninist Political Economy	2	30	30		REQ
6	General English 2	3	30	45		REQ
7	Physical Education 2	1	30		30	COND
8	General law	2	30	30		REQ
9	Basic Informatics	3	60	30	30	REQ
Total		18				

7.3 Semester 3

No.	Course name	Credits	Total number of class periods	Class period		Type
				Lec.	Prac.	
1	Architectural Basic Exercises 2	2	60		60	REQ

No.	Course name		Credits	Total number of class periods	Class period		Type
					Lec.	Prac.	
2	Sculpture		2	60		60	REQ
3	Art 2		2	60		60	REQ
4	Law on construction and architecture		3	45	45		REQ
5	Principles of residential architectural design		2	30	30		REQ
6	Construction Materials		2	45	45		REQ
7	Physical Education 3		1	30		30	COND
8	Scientific Socialism		2	30	30		REQ
9	Construction Materials - Practice		1	30		30	REQ
10	Art history	Select 1 course	2	30	30		REQ
11	General Aesthetics		2	30	30		
	Total		20				

7.4 Semester 4

No.	Course name		Credits	Total number of class periods	Class period		Type
					Lec.	Prac.	
1	Architectural Basic Exercises 3		2	30		60	REQ
2	Engineering mechanics		3	45	45		REQ
3	Theme 1: Shaping - architectural decoration		2	30	30		REQ
4	Basic composition project		2	60		60	REQ
5	History of The Communist Party of Viet Nam		3	45	45		REQ
6	Ho Chi Minh's thought		2	30	30		REQ
7	Project 1A: Housing 1 – Type of villa	Select 1 course	3	75	15	60	ELEC
8	Project 1B: Housing 2 – Type of townhouses		3	75	15	60	ELEC
9	Project 2A: Public house 1 – Type of public service	Select 1 course	3	75	15	60	ELEC
10	Project 2B: Public house 1 – Type of living service		3	75	15	60	ELEC
	Total		20				

7.5 Semester 5

No.	Course name		Credits	Total number of class periods	Class period		Type
					Lec.	Prac.	
1	Architectural structure 2		2	30	30		REQ

No.	Course name	Credits	Total number of class periods	Class period		Type
				Lec.	Prac.	
2	Theme 2: Architecture and environment	2	30	30		REQ
3	Principles of public building design	3	45	45		REQ
4	Applied Informatics 1- Autocad	3	75	15	60	REQ
5	Quick Design 1	1	30		30	REQ
6	Project 3A: Public house 2 – Administrative type	3	75	15	60	ELEC
7	Project 3B: Public House 2 – Type of Transport (Terminal, Bus Station, Metro)					
8	Project 4A: Public house 3 – Commercial type	3	75	15	60	ELEC
9	Project 4B: Public house 3 – Type of culture					
Total		17				

7.6 Semester 6

No.	Course name	Credits	Total number of class periods	Class period		Type
				Lec.	Prac.	
1	English for Architecture	3	45	45		REQ
2	Architectural structure 3	2	30	30		REQ
3	Topic 3: Structure of high-rise buildings	2	30	30		REQ
4	Principles of industrial architectural design	2	30	30		REQ
5	Applied Informatics 2- Revit	3	90		90	REQ
6	Project 5A: Housing 2 + Furniture – Type of Apartment Building	3	75	15	60	ELEC
7	Project 5B: Housing 2 + Furniture – Type of Office House					
8	Project 6A: Public house 4 – Type of Education	3	75	15	60	ELEC
9	Project 6B: Public house 4 – Medical type					
Total		18				

7.7 Semester 7

No.	Course name	Credits	Total number of class periods	Class period		Type	
				Lec.	Prac.		
1	Shaping layout	2	30	30		REQ	
2	Theme 4: Foreign contemporary architecture	2	30	30		REQ	
3	Construction structure	3	45	30		REQ	
4	Urban planning	2	30	30		REQ	
5	Urban planning-Projects	1	30		30	REQ	
6	Quick Design 2	1	30		30	REQ	
7	Project 7A: Industrial house 1 – (Natural)	Select 1 course	3	75	15	60	ELEC
8	Project 7B: Industrial House 2– (Artificial)		3	75	15	60	ELEC
9	Project 8A: Public house 5 + Exterior – Type of sport	Select 1 course	3	75	15	60	ELEC
10	Project 8B: Public house 5 + Exterior – Type of culture		3	75	15	60	ELEC
Total		17					

7.8 Semester 8

No.	Course name	Credits	Total number of class periods	Class period		Type	
				Lec.	Prac.		
1	Architectural acoustics	2	30	30		REQ	
2	Architectural structure 4	2	30	30		REQ	
3	Construction equipment system 1 (lighting)	2	30	30		REQ	
4	Construction equipment system 2 (water supply and drainage)	2	30	30		REQ	
5	Architectural optics	2	30	30		REQ	
6	Quick Design 3	1	30		30	REQ	
7	Project 9A: Residential area planning	Select 1 course	3	75	15	60	ELEC
8	Project 9B: Planning of the administrative center		3	75	15	60	ELEC
9	Tropical climate architecture	Select 1 course	2	30	30		ELEC
10	Landscape architecture		2	30	30		ELEC
Total		16					

7.9 Semester 9

No.	Course name		Credits	Total number of class periods	Class period		Type
					Lec.	Prac.	
1	Preserving architectural heritage		2	30	30		REQ
2	Construction Engineering		2	30	30		REQ
3	Architectural climate		2	30	30		REQ
4	History of Eastern and Vietnamese architecture		3	45	45		REQ
5	Organization of construction		2	30	30		REQ
6	General project A: High-rise apartment building	Select 1 course	4	105	15	90	ELEC
7	General project B: Office building		4	105	15	90	ELEC
Total			15				

7.10 Semester 10

No.	Course name		Credits	Total number of class periods	Class period		Type
					Lec.	Prac.	
1	Methods of research and writing scientific reports		2	30	30		REQ
2	Graduation practicum		4	120		120	REQ
3	Graduation Project (Undergraduate Architecture)	Select Graduation thesis or 2 alternative courses *	8	240		240	ELEC
4	Feng Shui		2	30	30		ELEC
5	Thematic synthetic		6	180		180	ELEC
Total			14				

(*) If students do not meet the requirements to complete their graduation thesis, they will take alternative courses.

8. Instruction for program implementation

8.1 For Departments and Faculties

- The department of specialized management is responsible for reviewing, and leading the compilation of detailed outlines for subjects belonging to the basic knowledge blocks of the program in accordance with the credit load of this program. They provide a list of textbooks, lectures, and reference materials for all subjects to the University Library and keep them in the Faculty's Office. At the beginning of each semester, they coordinate with other units in the University to implement the training plan according to the schedule.

- Assign lecturers with a Master's degree or above (in the same or related fields) to teach theoretical subjects, and provide detailed outlines of subjects for lecturers to ensure adherence to the University's teaching plan.

- The study advisor team must thoroughly understand the entire credit-based training program to guide students in registering for subjects.

8.2 For Lecturers

- When assigned to teach one or more subjects, lecturers must study the detailed outline of the subject's content thoroughly to prepare suitable lectures, teaching aids, and tools.

- Lecturers must fully prepare lectures, and course materials, and provide them to students to prepare before class.

- Organize seminars, focus on organizing group learning, and guide students in writing essays, and projects, determine teaching methods, present in class, guide discussions, solve problems in class, in practice rooms, in labs and guide students in writing reports.

- Pay attention to developing students' ability to learn and research independently throughout the teaching process and guide them in internships and practice.

- Pay attention to the logic of imparting and absorbing knowledge blocks, stipulate prerequisite subjects for mandatory subjects, and prepare lecturers to meet the teaching requirements of elective subjects.

8.3 For Students

- Students must consult their study advisor for advice in selecting subjects that are appropriate to the schedule. They must study the lesson before class to better understand the lecture. They must ensure that they have enough time to attend lectures and listen to the lecturer's guidance. Students must be self-motivated in self-learning and research, while actively participating in group learning and attending all seminars.

- Students should proactively and actively exploit the resources available online and in the university library to serve their self-learning and research.

- Regularly participating in extracurricular activities, and cultural and artistic events to improve communication skills and understanding of society and people.

8.4 Facilities and equipment for teaching, practice, and internship

- A system of lecture rooms with traditional equipment, additionally equipped with teaching aids (projector).

- Computer labs with software installed for basic computer training.

- Physics labs equipped with visual aids for basic physics courses.

- Equipment such as electronic total stations, and leveling instruments used for practical surveying courses.

Rector

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