

# For entrants in AY 2019

Appended Form I

## Specifications for Major Program

Name of School (Program) [School of Engineering, Cluster 4  
(Social and Environmental Engineering)]

Program name (Japanese)	建築プログラム
(English)	Program of Architecture and Building Engineering
1. Academic degree to be Acquired :	
2. Overview	
<p>Japanese architects are active in the world and contribute to the creation of human culture. In this undertaking, a broad range of knowledge and a deep sense of ethics are required. This is especially true in Hiroshima, where the wisdom to create a peaceful living environment has been accumulated. Against the background of the unique features of Hiroshima, this program provides students education, engineering abilities, and technical skills for creating a living environment with a wide range of knowledge. This program cultivates the ability to voluntarily explore and create new buildings that respond to sustainable development and the information-driven society of the future.</p> <p>In this program, students learn, in a comprehensive manner, basic engineering knowledge related to architectural design and planning, building environment and services, building engineering, and building materials and production, as well as the knowledge necessary for actual business, such as architectural economy, architectural administration, etc., and artistic and creative abilities. Over half of the graduates advance to the first semester of the</p> <p>graduation, graduates work actively as engineers in planning, design, equipment, and structure. They work on the construction of buildings of every kind, such as housing, cultural facilities, public institutions, commercial facilities, and industrial facilities, and in the areas related to urban planning and interior planning. They also work actively as architects at construction companies, the housing industry, architectural design offices, and local governments. This program has an educational system that includes the lectures and exercises necessary to meet the academic requirements to qualify for candidacy in the examinations for second-class and first-class architects (more than two</p>	
3. Academic Awards Policy (Policy for awarding degrees and goal of the program)	
<p>In the Program of Architecture and Building Engineering, students acquire a wide range of knowledge, education, engineering ability, and technical skill for creating living environments, against the background of the unique features of Hiroshima. This program cultivates the ability to voluntarily explore and create new buildings that respond to sustainable development and the information-driven society of the 21st century. This program awards a</p> <p>to seek peace, the ability to make comprehensive judgments, and who have acquired the number of credits to meet the requirements of the course, a liberal arts education aimed at cultivating a well-rounded character, and the specialized education designed to achieve the following goals:</p> <p>(A) The ability to contribute to the realization of peaceful living environments through the creation of architecture (development of professionals who can contribute to a peaceful living environment)</p> <p>(B) The ability to contribute to social progress and human happiness (development of professionals that can contribute to human happiness)</p> <p>(C) Possession of a deep personality and ethics as an engineer (cultivation of ethics as engineers)</p> <p>(D) Possession of basic knowledge of engineering in architecture (acquisition of basic knowledge of engineering)</p>	

(E) Possession of comprehensive, individual expertise and abilities in architecture (acquisition of architectural expertise and abilities)

(F) Possession of design capabilities (cultivation of design capabilities)

(G) Possession of Japanese communication skills and international communication skills (cultivation of communication skills)

(H) The ability to undertake personal development and continued training on a permanent basis (cultivation of ability to undertake personal development and continued training)

(I) Possession of the ability to make precise and rational plans, and to implement them (cultivation of ability to make plans and to implement them)

#### 4. Curriculum Policy (Policy for Preparing and Implementing the Curriculum)

The Program of Architecture and Building Engineering organizes and implements a curriculum according to the following policy, so that students may achieve the goals A to I in the academic awards policy.

Learning outcomes are evaluated based on the grade calculation for each subject and the level of attainment against the goals set by the education program.

education subjects in the first year when they are enrolled in school of

physics, as foundation courses. Students also

subjects.

Engineering

Program of Architecture and Building

planning, architectural planning, and architectural design drawing.

students acquire the comprehensive knowledge and methodology necessary to undertake architecture in the 21st century.

mic results are checked at the end of the third year, and qualification for undertaking a graduation thesis is judged. After this judgment has been made, when students advance to the fourth year, they are assigned to a laboratory, select their subject of specialized research, begin their graduation research, including experiments, surveys, etc., undergo final examination of their finished graduation thesis, and, finally, obtain graduation and their academic degree.

rofessionals that can contribute to peaceful living environments) through

Students achieve goal B (development of professionals that can contribute to human happiness) through mastery offered in the second year.

Students achieve goal C (cultivation of ethics as engineers) through mastery of the specialized basic subjects and the specialized subject

the third year.

Students achieve goal D (acquisition of basic knowledge of engineering) through mastery of the specialized basic

second year.

and architectural planning offered from the second year through the third year.

foreign

Architecture I, third year.

offered from the third year through the fourth year.

make plans and to implement them) through mastery of the , IV,

year through the fourth year.

5. Program Timing and Acceptance Conditions

to start the program

This program starts from the first semester of the second year, when students have completed many subjects in the liberal arts course. Cluster 4 has two programs: Architecture and Building Engineering, and Civil and Environmental Engineering. Each program has an upper limit for the acceptable number of students. Assignment to each program is decided at the end of the first year, after taking into account the requests of students and their academic results. The subject that it is recommended to take in the first year of the Program of Architecture and Building Engineering

As architecture involves human living as a whole, it is desirable to learn as wide a range of subjects as possible in the liberal arts course, regardless of whether these subjects belong to humanities or science courses.

6. Qualifications to be Acquired

Students qualify for candidacy for the examination for class 2 architects upon graduation. If they have had hands-on experience for more than two years, students qualify for candidacy for the examination for class 1 architects. Type-1

the prescribed liberal arts subjects, students can obtain the Type-1 High School Teaching License (Industry) upon graduation.

7. Class Subjects and Course Content

\* For class subjects, see the subject list in the attached sheet 1. (Subject list to be attached.)

\* For course content, see the syllabus published every academic year.

8. Academic Achievements

At the end of each semester, evaluation criteria are applied to each academic achievement evaluation item to ion for each subject, from admission to the

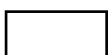
on evaluation criteria calculated by adding the weighted values to the numerically-converted values of their academic achievements (S = 4, A = 3, B = 2, and C = 1) in each subject being evaluated.

Evaluation of academic achievement	Converted values
S (Excellent: 90 points or higher)	4
A (Superior: 80-89 points)	3

Academic achievement	Evaluation criteria
Excellent	3.00-4.00
Very Good	2.00-2.99
Good	1.00-1.99

\* See the relationship between evaluation items and evaluation criteria in the attached sheet 2.

\* See the relationship between evaluation items and class subjects in the attached sheet 3.



\* See the curriculum map in the attached sheet 4.

#### 9. Graduation Thesis (Graduation Research) (Purpose, when and how it is assigned, etc.)

The graduation thesis is intended to be a major subject for the achievement of the following learning and educational goals.

engineering knowledge in architecture  
acquisition of comprehensive, individual expertise and abilities in architecture

on an ongoing basis

When it is assigned: At the start of fourth year (only those who meet the conditions for undertaking a graduation thesis are to be assigned.)

Conditions for undertaking a graduation thesis

- (1) Students must acquire 46 credits in liberal arts education.
- (2) Students must acquire 38 or more credits (including all compulsory subjects) in the basic special courses of the specialized education.
- (3) Students must complete Architectural Project and Drawing III, IV .
- (4) Out of the total number of credits in basic special education and special education to be acquired before graduation (excluding the 5 credits for graduation thesis), the number of credits yet to be obtained should be 10 or fewer.

Details of each laboratory to which students can be assigned, as well as details of research undertaken by supervisors and the assignment policy (the number of students acceptable to each laboratory and supervisor, etc.) are to be explained by the provided guidance given to students. Depending on academic results in Architectural Project and Drawing, about 10% of students who can undertake a graduation thesis will be able to submit graduation designs as their thesis.

Assignment is decided according to the requests of students who can undertake a graduation thesis. However, since the number of acceptable students is limited, adjustments may be made.

#### 10. Responsibility System

In this program, the architectural studies group, consisting of the teachers in charge. and its subsidiary, the self-assessment evaluation committee, are organized in order to check and improve the program. Under these committees, a curriculum examination working group, a planning examination working group for faculty development (FD), and an external evaluation working group are established. For the smooth running of the educational program in each area, these committees and working groups check and evaluate the learning and educational goals, the evaluation methods used to judge levels of attainment, and the whole educational system (educational methods, educational environment, etc.) (Check), examine educational improvement methods (Act), make improvement plans to improve learning and educational goals, educational methods, and the educational environment (Plan), and implement these plans (Do). In this way, the PDCA improvement cycle is established. This program has a system under which all the teachers in charge, centering on the program manager, cooperate and move forward.

##### (2) Program evaluation

In this program, evaluation is carried out according to the following evaluation criteria.

There is a mechanism that is able to check the program based on the evaluation results of learning and the attainment level of educational goals, whether its mechanism is disclosed, and whether the related activities are being implemented

ation system contains mechanisms that take into consideration the requirements of society or requests from students, and whether it is organized so as to check the functioning of the education check system itself

ram are able to view the records of the meetings  
or committees that constitute the education evaluation system

evaluations, and whether the related activities are being conducted

The architectural studies group and each committee focus on evaluation and improvement of the program. The most important things are the following two points.

attainment levels are conducted continuously.

-assessment evaluation committee implements the following unique questionnaires as part of the program evaluation.

about lecture implementation status, lecture improvement plans, opinions  
about other lectures, etc.

(targeted at graduates and companies)

The architectural studies group requests the committees to check the program, present their improvement plans, and prepare FD proposals, and, after discussing the reports and proposals submitted by the committees, the group decides on the improvement strategy. As the group consists of all teachers in charge of the program, the evaluation and improvement strategy decided here is considered to have been explained to all members, and is then put into action. In particular, regarding matters associated with the curriculum, the curriculum examination working group in the self-assessment evaluation committee makes its own checks and proposes the necessary improvement plan. The validity of this program from the point of view of society is checked by the external evaluation working group, evaluated by external academics, and checked by means of a questionnaire targeted at employers and graduates. These activities are conducted on an ongoing basis.

In this pro

students at the end of the semester, tutors give guidance so that students can achieve the learning and educational goals. Tutors also respond to studen

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Required subjects

Compulsory Elective subjects

Request Subjects

Class Subjects	Credits	Type of course registration		Class Hours/ Week																Note							
		Civil and Environmental Engineering	Architecture and Building Engineering	1st grade				2nd grade				3rd grade				4th grade											
				Spring		Fall		Spring		Fall		Spring		Fall		Spring		Fall									
				1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T								
Architectural Project and Drawing I	2					6	6																				
Architectural Project and Drawing II	2							6	6																		
Architectural Structural Mechanics I	4					4	4																				
Architectural Structural Mechanics II	4							4	4																		
Vibration Theory of Buildings	2																										
Reinforced concrete structure	2																										
Geotechnical and Architectural Foundation Engineering	2																										
Building Administration	2																										
Field Exercises of Building	1																										
History of Japanese Architecture	2																										
Architectural Planning	2																										
Town Planning	2																										
Architectural Environments I	2																										
Architectural Environments II	2																										
Exercises in Environmental Science	1																										
History of contemporary architecture I	2																										
Field Work in Architecture	1																										
Computer Technology in Architecture	2																										
Design Concepts of Steel Structures	2																										
Architecture drawings	2																										

1 As the course is offered every other year, you should take either of the courses.

2 Civil and Environmental Engineering is offered in the second semester of the second year, while Architecture and Building Engineering is offered in the first term of the first semester of the third year.



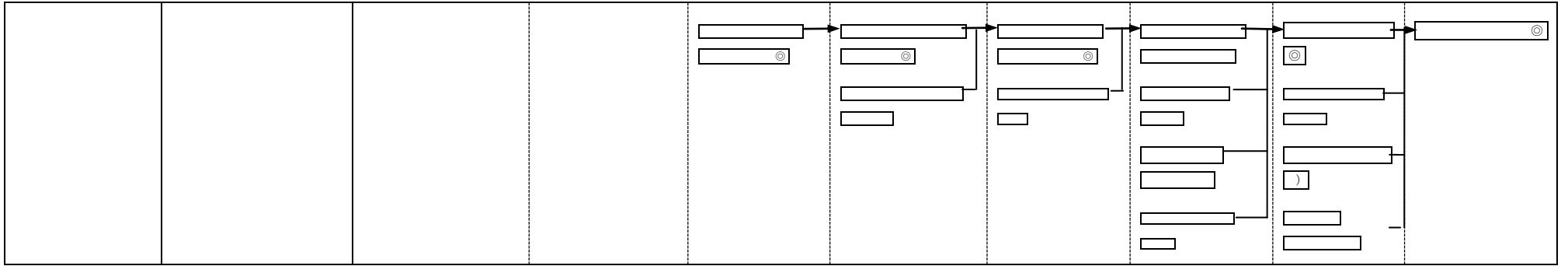








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