

Appended Form 1

# Specifications for Major Program

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

Program name(Japanese)	プログラム
(English)	Program of Architecture and Building Engineering
1. Academic degree to be Acquired Bachelor's degree in Engineering	
<p>2. Overview</p> <p>(1) Overview of "English-based Bachelor's Degree Program"</p> <p>This program aims to foster and produce future members of a global society who have the knowledge to be innovative, creative, take leadership, and possess language abilities that will help them play an important role in the international world.</p> <p>This program focuses specifically on producing individuals who are capable of addressing various global issues from an engineering perspective and contribute to the creation of new and valuable solutions that are significant to both the industrial and academic societies.</p> <p>Students enrolled in the program will begin the curriculum from the first semester of their first year. In the second year, students will set off on their major programs and take the designated courses which are offered at each cluster. Major program overview is as (2).</p> <p>(2) Program overview of "Program of Architecture and Building Engineering".</p> <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 doctor's course at graduate school and acquire a higher level of expertise and research competency. After 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.</p>	
<p>3. Academic Awards Policy (Policy for awarding degrees and goal of the program)</p> <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 bachelor's degree in engineering to students who have acquired a deep and broad education, a global perspective 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>	

"Knowledge and Abilities"

(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)

(B) The ability to contribute to social progress and human happiness (development of professionals that can contribute to human happiness)

(C) Possession of a deep personality and ethics as an engineer (cultivation of ethics as engineers)

(D) Possession of basic knowledge of engineering in architecture (acquisition of basic knowledge of engineering)

"Abilities and Skills"

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

"Overall ability"

(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.

- There are three types of class subjects that students learn for four years: "Liberal arts education subjects", "Specialized Basic Subjects", and "Specialized Subjects".

- Students learn mainly liberal arts education subjects in the first year when they are enrolled in school of engineering (cluster 4). These liberal arts education subjects include "Introductory Seminar for First-Year Students", "Peace Science Courses", foreign languages, and mathematics and physics, as foundation courses. Students also learn "Applied Mathematics I", and "Creation of Architectural Space" as the beginning of the specialized basic subjects.

- When students advance to the second year, and assignment to the Program of Architecture and Building Engineering is decided, they study "Specialized Basic Subjects" and "Specialized Subjects" in full swing. The "Specialized Basic Subjects" that students learn in the second and third years include subjects on "Building Engineering" such as building materials and reinforced concrete structures, subjects on "Architectural Environments", and subjects on "Architectural Planning" such as architectural history, building regulations, town planning, architectural planning, and architectural design drawing.

- By learning a variety of subjects in these diverse fields, and at diverse levels of specialization, in a systematic way, students acquire the comprehensive knowledge and methodology necessary to undertake architecture in the 21st century.

- The academic 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.

- Students achieve goal A (development of professionals that can contribute to peaceful living environments) through mastery of liberal arts education subjects "Peace Science Courses" offered in the first year, and the specialized subject "Peace Urbanism and Architecture" offered in the third year.

- Students achieve goal B (development of professionals that can contribute to human happiness) through mastery of the specialized basic subject "Architectural Planning I" and "Town Planning" offered in the second year.

- Students achieve goal C (cultivation of ethics as engineers) through mastery of the specialized basic subjects "Building Administration", and the specialized subject "Building Construction", and "Ethics of Architecture" offered in the third year.

- Students achieve goal D (acquisition of basic knowledge of engineering) through mastery of the specialized basic subjects “Applied Mathematics I II”, “Probability and Statistics”, “Creation of Architectural Space”, and “Computer Technology in Architecture” offered from the first year through the second year.
- Students achieve goal E (acquisition of architectural expertise and abilities) through mastery of “Creation of Architectural Space” offered in the first year, and the courses on building engineering, architectural environments, and architectural planning offered from the second year through the third year.
- Students achieve goal F (cultivation of design capabilities) through mastery of the specialized basic subject “Architecture Drawings” and the specialized subjects “Artistic Practice” offered in the second year, and the specialized subjects “Project Management in Building”, and “Structural Design” offered from the third year through the fourth year.
- Students achieve goal G (cultivation of communication skills) through mastery of liberal arts education subjects, foreign languages, and “Introductory Seminar for First-Year Students” offered in the first year, the specialized basic subject “Exercise of Technical English” offered in the second year, and the specialized subject “Seminar in Architecture I, II” offered in the third year.
- Students achieve goal H (cultivation of the ability to undertake personal development and continued training) through mastery of the specialized basic subject “Architectural Project and Drawing I, II” offered in the second year, and the specialized subjects, “Field Exercises of Building”, “Field Work in Architecture”, and “Graduation Thesis” offered from the third year through the fourth year.
- Students achieve goal I (cultivation of the ability to make plans and to implement them) through mastery of the specialized subjects “Architectural Project and Drawing III, IV, V”, and “Graduation Thesis” offered from the third year through the fourth year.

In the curriculum described above, teaching and learning will be implemented by utilizing active learning, experiential learning and online classes, depending on the delivery methods of the program, such as lectures, drawing and seminars.

In addition to strict grading using the standards clearly outlined in the syllabus, learning outcomes are evaluated based on the degree to which the goals set by the educational program are achieved.

## 5. Program Timing and Acceptance Conditions

### ○ When to start the program

The English-based Bachelor's Degree programs begin in the first semester of the first year. Enrollment in Program of Architecture and Building Engineering occurs in the second 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 is “Creation of Architectural Space”.

### ○ Additional Requirements

To determine acceptance into the English-based Bachelor's Degree program, all applicants are required to have an individual consultation with the faculty committee members.

### ○ Credit Requirements

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 and class 1 architects 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.

\* All courses are taught in Japanese. Course materials may be written in both Japanese and English or only English.

## 8 Academic Achievements

At the end of each semester, evaluation criteria are applied to each academic achievement evaluation item to clearly demonstrate the attainment level. Students' grade calculation for each subject, from admission to the university until the current semester, is given as one of the three levels: “Excellent,” “Very Good,” and “Good,” based

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.

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.)

##### ○ Purpose

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

"Knowledge and Abilities" (D) Possession of basic engineering knowledge in architecture

"Abilities and Skills" (E) Possession of comprehensive, individual expertise and abilities in architecture

"Overall abilities" (F) Possession of design capabilities

"Overall abilities" (G) Possession of Japanese communication skills and international communication skills

"Overall abilities" (H) Possession of the ability to undertake personal development and continued training on an ongoing basis

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

##### ○ When and how it is assigned

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. (h)-12.3D 72 3(i)-8.9 (o1B0052>809036.7H(c)-8 (ond)-(ng )9d.1 (h)-EMC P M(h)-12.31

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

### ○ Criteria for program evaluation

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

- Whether an education evaluation system exists 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
- Whether the education evaluation 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
- Whether the teachers involved in this program are able to view the records of the meetings or committees that constitute the education evaluation system
- Whether there is a system in place that improves the program continuously based on the results of education evaluations, and whether the related activities are being conducted

### ○How the program is evaluated (relationship to class evaluation to be described)

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

- Evaluation and improvement of the program are conducted on a daily basis and in a systematic manner.
- Revision and improvement of the learning and educational goals, evaluation methods, and evaluation standard for attainment levels are conducted continuously.
- The self-assessment evaluation committee implements the following unique questionnaires as part of the program evaluation.
  - A questionnaire targeted at students, about the learning environment
  - A questionnaire targeted at teachers, about lecture implementation status, lecture improvement plans, opinions about other lectures, etc.
  - A questionnaire to confirm the learning and educational goals and the validity of the evaluation of attainment levels (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.

### ○Thinking on feedback to students and how it is conducted

In this program, tutors keep track of students' obtained credits on a constant basis, and, through interviews with students at the end of the semester, tutors give guidance so that students can achieve the learning and educational goals. Tutors also respond to students' questions and provide consultation for students. Students' requests are obtained from tutors, which are reflected in the improvement of this program. Furthermore, based on the results of the class evaluation questionnaire targeted at students, an improvement questionnaire about class improvement measures, etc. targeted at teachers is carried out. This program improves classes in response to student requests.

## Cluster 4 (Civil Engineering and Architecture)

Required subject (period of registration specified)

Compulsory elective subject (any of these subjects shall be registered)

Free elective subject (any of these subjects shall be registered)

Subject Type				Require d No. of credits	Class subjects	No. of credits	Type of course registratio	Year in which the subject is taken(*The lower figure means semester) Note 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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**Note** When students fail to acquire the credit during the term or semester marked with in the boxes for the year in which the course is taken, they can take the course in subsequent terms or semesters. Depending on class subject, courses may be offered in semesters or terms different from those scheduled. Please be sure to check the time schedule for Liberal Arts Education subjects to be issued every

**Note** The credit obtained by mastery of self-directed study of "Online Seminar in English A B" cannot be counted towards the credit necessary for graduation. The credit obtained by Overseas Language Training can be recognized as Communication or if application is made in advance. For more details, please refer to the article on English in Liberal Arts Education in the student handbook.

**Note** We have a recognition of credit system for foreign language proficiency tests. For more details, please refer to the article on Foreign Language in Liberal Arts Education in the student handbook.

**Note** Students must take both Experimental Methods and Laboratory Work 1credit and Experimental Methods and Laboratory Work 1credit .

## Cluster 4 Specialized Basic Subjects

### Required subjects

### Compulsory Elective subjects

### Request Subjects

[illegible]

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	





## Academic Achievements in Architecture and Building Engineering

### The Relationship between Evaluation Items and Evaluation Criteria

Academic Achievements			Evaluation Criteria		
Evaluation Items			Excellent	Very Good	Good
Knowledge and Understanding	(A)	Understanding on development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)	Understand and be able to explain development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)	Understand development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)	Understand outline of development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)
	(B)	Understanding on development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)	Understand and be able to explain on development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)	Understand development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)	Understand outline of development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)
	(C)	Understanding on cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view)	Understand and be able to explain cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view).	Understand cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view)	Understand outline of cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view)
	(D)	Understanding on learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)	Understand and be able to explain learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)	Understand learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)	Understand outline of learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)
Abilities and Skills	(E-1)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand and be able to explain cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand outline of cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)
	(E-2)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand and be able to explain cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability b) Basic knowledge and ability for architectural environments)	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability b) Basic knowledge and ability for architectural environments)	Understand outline of cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability b) Basic knowledge and ability for architectural environments)
	(E-3)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability c) Basic knowledge and ability for structural engineering)	Understand and be able to explain cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability c) Basic knowledge and ability for structural engineering)	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability c) Basic knowledge and ability for structural engineering)	Understand outline of cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability c) Basic knowledge and ability for structural engineering)
	(E-4)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((2) Comprehensive and advanced knowledge and ability to develop basis for building engineers. Being able to summarize documents of the advanced contents on either a , b or c	Understand and be able to explain cultivation of expert knowledge and ability for architecture and building engineering. ((2) Comprehensive and advanced knowledge and ability to develop basis for building engineers. Being able to summarize documents of the advanced contents on either a , b or c	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((2) Comprehensive and advanced knowledge and ability to develop basis for building engineers. Being able to summarize documents of the advanced contents on either a , b or c	Understand outline of cultivation of expert knowledge and ability for architecture and building engineering. ((2) Comprehensive and advanced knowledge and ability to develop basis for building engineers. Being able to summarize documents of the advanced contents on either a , b or c
Overall Abilities	(F)	Understanding on cultivation of design capacity. (Being able to indicate issues and to propose solutions for given subjects from various points of views. Being able to understand the social background of their researchs and to propose the research plans for their theses.)	Understand and be able to explain cultivation of design capacity. (Being able to indicate issues and to propose solutions for given subjects from various points of views. Being able to understand the social background of their researchs and to propose the research plans for their theses.)	Understand cultivation of design capacity. (Being able to indicate issues and to propose solutions for given subjects from various points of views. Being able to understand the social background of their researchs and to propose the research plans for their theses.)	Understand outline of cultivation of design capacity. (Being able to indicate issues and to propose solutions for given subjects from various points of views. Being able to understand the social background of their researchs and to propose the research plans for their theses.)
	(G)	Understanding on cultivation of communication ability. ((1) International communication ability. Being able to introduce themselves to foreigners and make communications. Being able to read and write technical papers on architecture and building engineering using dictionaries.) ((2) Communication ability in Japanese. Being able to introduce their own ideas to audience and to have questions and answers session. Being able to prepare persuasive materials. Being able to fully understand technical papers on architecture and building engineering (graduation theses for example) and to prepare manuscripts to convey the research results.)	Understand and be able to explain cultivation of communication ability. ((1) International communication ability. Being able to introduce themselves to foreigners and make communications. Being able to read and write technical papers on architecture and building engineering using dictionaries.) ((2) Communication ability in Japanese. Being able to introduce their own ideas to audience and to have questions and answers session. Being able to prepare persuasive materials. Being able to fully understand technical papers on architecture and building engineering (graduation theses for example) and to prepare manuscripts to convey the research results.)	Understand cultivation of communication ability. ((1) International communication ability. Being able to introduce themselves to foreigners and make communications. Being able to read and write technical papers on architecture and building engineering using dictionaries.) ((2) Communication ability in Japanese. Being able to introduce their own ideas to audience and to have questions and answers session. Being able to prepare persuasive materials. Being able to fully understand technical papers on architecture and building engineering (graduation theses for example) and to prepare manuscripts to convey the research results.)	Understand outline of cultivation of communication ability. ((1) International communication ability. Being able to introduce themselves to foreigners and make communications. Being able to read and write technical papers on architecture and building engineering using dictionaries.) ((2) Communication ability in Japanese. Being able to introduce their own ideas to audience and to have questions and answers session. Being able to prepare persuasive materials. Being able to fully understand technical papers on architecture and building engineering (graduation theses for example) and to prepare manuscripts to convey the research results.)
	(H)	Understanding on education for self-development and self-improvement. (Being able to collect materials related to recent problems)	Understand and be able to explain education for self-development and self-improvement. (Being able to collect materials related to recent problems)	Understand education for self-development and self-improvement. (Being able to collect materials related to recent problems)	Understand outline of education for self-development and self-improvement. (Being able to collect materials related to recent problems)
	(I)	Understanding on cultivation of ability for planning and exercising (Being able to accomplish their subjects and to summarize the results within a time limit. Experiencing collaborative works through experiments, practices and graduation theses.)	Understand and be able to explain cultivation of ability for planning and exercising (Being able to accomplish their subjects and to summarize the results within a time limit. Experiencing collaborative works through experiments, practices and graduation theses.)	Understand cultivation of ability for planning and exercising (Being able to accomplish their subjects and to summarize the results within a time limit. Experiencing collaborative works through experiments, practices and graduation theses.)	Understand outline of cultivation of ability for planning and exercising (Being able to accomplish their subjects and to summarize the results within a time limit. Experiencing collaborative works through experiments, practices and graduation theses.)

### Placement of the Liberal Arts Education in the Major Program

Liberal arts education in this program takes on the role of building an academic foundation on which the specialized education in architecture will be built. It cultivates scientific thinking abilities based on respect for a voluntary and self-reliant attitude, data gathering ability, analytical ability, and critical thinking ability, and establishes an outlook that can provide insight into the essence and background of things from a broad perspective, as well as strengthening the language skills and interest in peace appropriate for those who live as an internationally minded people, and incorporating a broad range of knowledge into a body of knowledge genuinely useful for solving problems.

[illegible]

Academic Achievement	Evaluation Items	Class subjects							
		1st grade		2nd grade		3rd grade		4th grade	
		Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Knowledge and Understanding (A)	Understanding on development of human resources who can contribute to a peaceful global environment.	Class subjects (◎) Peace Science Courses (◎)	Class subjects (◎)		History of Architecture I Architectural Project and Drawing I (◎)	History of Architecture II Architectural Project and Drawing III (◎)	Architectural Project and Drawing IV Peace Urbanism and Architecture		
Knowledge and Understanding (B)	Understanding on development of human resources who can contribute to human happiness.	Class subjects (◎) Health and Sports Courses (◎)	Class subjects (◎)		Architectural Project and Drawing II (◎) History of Architecture I Town Planning Architectural Planning I Environmental Theory	Architectural Project and Drawing III (◎) History of Architecture II Peace Urbanism and Architecture	Architectural Project and Drawing IV		
Knowledge and Understanding (C)	Understanding on learning basic engineering knowledge.	Class subjects (◎)	Class subjects (◎)			Building Administration Building Construction	Ethics of Architecture (◎) Field Exercises of Building		
Knowledge and Understanding (D)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering.	Courses in Natural Sciences Information and Data Science Courses (◎)	Courses in Natural Sciences (◎) Applied Mathematics I (◎)	Courses in Natural Sciences (◎) Applied Mathematics II Applied Mathematics III Probability and Statistics	Synthesis of Applied Mathematics Computer Technology in Architecture	Engineering Mathematics A		Graduation Thesis (◎)	Graduation Thesis (◎)

Abilities and Skills (E)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering		Creation of Architectural Space	Basic Specialized Subjects	Basic Specialized Subjects Specialized Subjects	Basic Specialized Subjects Specialized Subjects	Specialized Subjects	Graduation Thesis (◎) Specialized Subjects	Graduation Thesis (◎)
Comprehensive Abilities (F)	Understanding on cultivation of design capacity.	Introductory Seminar for First-Year Students (◎)		Architectural Planning □ Architecture drawings Artistic Practice	Architectural Planning II Town Planning	Architectural Project and Drawing III (◎)	Architectural Project and Drawing IV (◎) Project Management in Building	Graduation Thesis (◎) Architectural Project and Drawing V Structural Design (◎) Artistic Practice Seminar in Architecture III	Graduation Thesis (◎)

Comprehensive Abilities (G)

Understanding on cultivation of

Comprehensive Abilities (I)	(I) Understanding on cultivation of ability for planning and exercising			Architectural Project and Drawing I (◎)	Architectural Project and Drawing II (◎) Design Concepts of Steel Structures	Architectural Project and Drawing III (◎) Exercises in Environmental Science	Architectural Project and Drawing IV (○) Field Exercises of Building Field Work in Architecture Project Management in Building	Graduation Thesis (◎) Architectural Project and Drawing V Structural Design (○) Seminar in Architecture III	Graduation Thesis (◎)

◎: Required subject (period of registration specified), ○: Compulsory elective subject (any of these subjects shall be registered)