Course List and Graduation Requirements for International Programs,

Automotive Engineering Program - School of Engineering (for Undergraduates Enrolled in October 2024)

(Major : Electrical Engineering, Electronics, and Information Engineering)

				T	T	1		2		
Course Category				Course	Term	No of Credits	Compulsory	Credits Compulsory Elective	Elective	Minimum Requirement
	Introduction to Skills for Academic Suc			Introduction to Skills for Academic Success	G- I	1	1	Elective		1 1
			First Year Seminar	First Year Seminar	G- I	2	2	4		2
				Japanese	Fall,Spring	8	8			8
	Common Basic Co	urses	Language and Culture	Japanese/Second Foreign Languages/English	Fall,Spring	6	6			6
	Johnnon Dasic Col	000	Haaliba and On 1 O 1	Health and Sports Science: Lecture	G-I	2			2	
			Health and Sports Science	Exercise and Sports A Exercise and Sports B	G-I G-II	1			1	2
	Data		Data Calana	Introduction to Data Science (Lecture)	G-II	1	1		<u> </u>	1
			Data Science	Data Science Exercise B	G-II	1	1			1
		1	Partial Sum	Intermediated Contational Contations the A COLL P. 17	T = "	1 ^		<u> </u>		21
				International Society in the Age of Globalization ★ Exploration of Japan: From the Outside looking Inside	Fall Spring	2			2 2	-
				Go in Japanese Culture	Fall	2			2	1
		Global Liberal A	Arts	Studium Generale A	Fall	2			2	
				Studium Generale B	Spring	2			2	
				Special Mathematics Lecture Introduction to Intercultural Competence	Fall,Spring Fall	2			2	
				Immigration in Japan	G-III	2			2	
	Liberal Arts Courses			Content courses taught in Japanese (JMI Courses)	-	-			_	4
	Courses		Humanities and Social	Introduction to Cultural Studies ★	Spring	2			2	7
		Contemporary Liberal Arts (CLA)	Sciences	Introduction to Political Studies ★	G−Ⅲ G−Ⅳ	2			2	Including of
				Introduction to Economics ★ Art and Culture ★	Spring	2			2 2	2 credits from CLA.
			of Arts and Sciences	Introduction to Career Development Theory	Fall	2			2	HOIII CLA.
				Gender Studies	G-III	2			2	-
				Disaster Prevention and Mitigation Biotechnology	G−Ⅲ Fall	2			2 2	
	Problem/Project		Based Learning Seminar	Summer Camp for General Academic Skills	G-VI	2			2	
	p solony i region based Learn		<u> </u>	Calculus I	G- I	2	2			
				Calculus II	G-II	2	2			10
				Linear Algebra I Linear Algebra II	G-I G-II	2	2			10
				Complex Analysis	G-II	2	2			
	Basic Courses for (Basic Courses in			Fundamentals of Physics I	G- I	2	2			
	Pasic Courses in	acarar ocience	,	Fundamentals of Physics II	G-II	2	2			8
				Fundamentals of Physics III	G-II G-III	2	2			
				Laboratory in Physics Fundamentals of Chemistry I	G-III G- I	2	2			
				Fundamentals of Chemistry II	G-II	2	2			4
				Partial Sum						22
		Sum	for Liberal Arts and Science		0.1	0	0			47
				Computer Software I Mathematics I and Tutorial	G− I G−Ⅲ	4	2 4			
				Mathematics II and Tutorial	G-III	4	4			
				Analytical Dynamics and Tutorial	G−Ⅲ	2.5	2.5	<u> </u>		
				Electrical Circuits Engineering	G-III	2	2			
				Mechanics of Materials and Tutorial Thermodynamics and Tutorial	G−Ⅲ G−Ⅲ	2.5	3 2.5	-		36.5
			Compulsory Courses ①	Electronic Circuits	G-III G-IV	2.5	2.5			
				Electricity and Magnetism	G-IV	2	2			
		_		Metallic and Ceramic Materials	G-IV	2	2			
	Basic Specialized Courses			Fluid Mechanics I and Tutorial	G-IV G-IV	2.5	2.5 3			
				Vibration Engineering and Tutorial Control Engineering and Tutorial	G-IV G-V	3	3			
				Scientific Measurements	G-V	2	2			
				Fundamental Physics Tutorial I a	G- I	1			1	
				Fundamental Physics Tutorial I b Fundamental Physics Tutorial II	G- I	1]		1	<u> </u>
			Elective Courses ②	Kinematics of Machines	G-II G-III	2			2	6
				Solid Mechanics	G-IV	2		2	1	
				Automobile Chemical Systems I	G-V	2			2	
			<u> </u>	Material Processing Introduction to Automotive Engineering	G-V G- I	2	2		2	<u> </u>
				Computer Software II	G-IV	2	2			
				Introduction to Electrical, Electronic and Information Engineering for Automobiles	G-IV	2	2 2 1 1			26
				Vehicle Structures	G-IV	2				
			Compulsory Courses ③	Design Practice I Automobile Engineering Laboratory II	G-IV G-VI	2				
			Compaisory Courses (a)	Automobile Engineering Laboratory I	G-VI	2	2			
Courses in Specialized Fields				Design Practice II	G-V	1	1			
				Power Electronics	G-V	2	2			
				Graduation Research A Graduation Research B	G-VII G-VIII	5 5	5 5			
				Mathematics Tutorial I a	G- I	1	J		1	
				Mathematics Tutorial I b	G- I	1			1	
				Mathematics Tutorial II a	G-II	1	_	, [1	-
	Specialized Courses	• • • • • • • • • • • • • • • • • • • •		Mathematics Tutorial II b Analytical Chemistry	G-II G-V	2			2	-
	Specialized Courses			Urban Environment and Transportation System	G-V	2	1	2	\dashv	
			Elective Courses 4	Numerical Analysis	G-V	2			2]
				Heat Transfer Engineering	G-VI	2		2 0.5 0.5		
				Tours in Industrial Plants A Tours in Industrial Plants B	G-IV G-V	0.5 0.5				ł
				Training in Industrial Plants	G-VI	1				17.5
				Automobile Chemical Systems II	G-VI	2			2 2 2	
				Organic Materials	G-VII	2				-
				Environment and Recycling Intelligent Transportation Systems	G-VI G-VI	2				
				Electronic Devices in Automobiles	G-VI G-VI	2		2 2 2	·	
				Vehicle Engines and New Propulsion Systems	G-V	2				
				Vehicle Dynamics and Control	G-VI	2			2	_
				Vehicle Safety	G-VII	2			2	-
				Vehicle Design Scientific and Technical Japanese	G-VII G-VI	_			-	<u> </u>
				Business Japanese	G-VII	2			2	1
				Outline of Engineering III	G-VII	2			2	
	Related Specialized Courses		Elective Courses (5)	View of Advanced Electrical, Electronic and Information Engineering		2			2	4
				Introduction to Civil Engineering and Architecture International Lectures on Advanced Technology and Trends in	G-VII	2			2	· •
				Automobile Engineering U1	G-VI	1			1	
				International Lectures on Advanced Technology and Trends in	G-VI	3			3	1
			Sum for C	Automobile Engineering U3 purses in Specialized Fields	<u> </u>		62.5	0	27.5	90
				al Sum			J=.V	<u>`</u>		137
	0 5 11		subject with the syllabus.					_	_	_

[•]Confirm the prerequisite for each subject with the syllabus.

 $[\]bigstar$ Some of the courses on this column are offered in every other year. Confirm the offering term with the "Liberal Arts and Sciences Class Timetable" of the said year.

^{*} Please note that the terms and courses in Liberal Arts Courses may change for various reasons.

For the latest information, make sure to check the timetables (Timetable A and Timetable B) of the relevant term.

Graduation Requirements for International Programs, Automotive Engineering Program - School of Engineering (for Undergraduate)

(Major: Electrical Engineering, Electronics, and Information Engineering)

1. Liberal Arts and Sciences Courses: A combined total of at least 47credits must be acquired.

(1) Common Basic Courses:

A total of at least 21 credits must be acquired, consisting of 1 credit of Introduction to Skills for Academic Success, 2 credits of First Year Seminar, 14 credits from "Language and Culture", at least 2 credits each of Lecture and Exercise for Health and Sports Science, and 1 credit each of Lecture and Exercise for Data Science.

(2) Liberal Arts Courses:

A total of 4 credits must be acquired, consisting of 2 credits from Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of Arts and Sciences), and 2 credits from Global Liberal Arts Courses or Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of Arts and Sciences) or Problem/Project Based Learning Seminar.

(3) Basic Courses for Specialized Fields(Basic Courses in Natural Sciences):

A total of at least 22 credits must be acquired, consisting a total of at least 10 credits from Calculus I, II, Linear Algebra I, II or Complex Analysis, a total of 8 credits from Fundamentals of Physics I, II, III and Laboratory in Physics, a total of 4 credits from Fundamentals of Chemistry I and II.

2. Courses in Specialized Fields: A combined total of at least 90 course credits must be acquired from these course categories.

(1) Compulsory Courses:

A total of 62.5 course credits must be acquired, consisting of a total of 36.5 credits from Compulsory Basic Specialized Courses ① and a total of 26 credits from Compulsory Specialized Courses ③.

(2) Elective Courses

A total of at least 27.5 course credits must be acquired, consisting of a total of at least 6 course credits from Elective Basic Specialized Courses ②, a total of at least 17.5 course credits from Elective Specialized Courses ④, and a total of at least 4 course credits from Elective Related Specialized Courses ⑤.

Advancement Requirements for International Programs, Automotive Engineering Program - School of Engineering (for Undergraduate)

(Major : Electrical Engineering, Electronics, and Information Engineering)

Assesment Year	Course Categories	Minimum Courses / Credits Required	Requirements	Students unable to advance to the next year
At the End of the Second	Commom Basic Courses Liberal Arts Courses Basic Courses for Specialized Fields	40 credits	must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation. 2 Rasic Courses in Natural Sciences	1. Remain in the second year. 2. Must take no longer than 6 years to complete their second year.[Duration of enrollment (8 years)] minus [third to forth years(2 years)] 3. Students unable to advance to the next year within the 6-year limit stated in 2. above will be expelled from the school.