

Graduation/Promotion Requirements 2025

NAGOYA UNIVERSITY
G30 INTERNATIONAL PROGRAM
SCHOOL OF ENGINEERING

名古屋大学工学部教授要目
2025年度グローバル30国際プログラム入学生用

School of Engineering (for Undergraduates Enrolled in October 2025)

(1) Graduation Requirements (卒業要件)

Course Classifications 授 業 科 目 分 類		Department of Chemistry and Biotechnology 化学生命工学科			
		Chemistry 化学系プログラム			
		Compulsory 必修	Compulsory Elective 選必	Elective 選択	Total 合計
Courses relating to a specialized field 工学部専門系科目	Basic Specialized Courses (専門基礎科目)				
	Number of Credits Offered (開講単位数)	28		32	60
	Minimum Credits Required (取得要求単位数)	28		16	44
	Specialized Courses (専門科目)				
	Number of Credits Offered (開講単位数)	8		20	28
	Graduation Research (卒業研究)	10		0	10
	Minimum Credits Required (取得要求単位数)	18		18	36
	Related Specialized Courses (関連専門科目)				
	Number of Credits Offered (開講単位数)			10	10
	Minimum Credits Required (取得要求単位数)			2	2
Liberal Arts and Sciences 全学教育科目	Total (小計)				
	Number of Credits Offered (開講単位数)	36		62	98
	Graduation Research (卒業研究)	10			10
	Minimum Credits Required (取得要求単位数)	46		36	82
	Method of Completion (履修方法)	Compulsory 36 credits (必修 36単位) Graduation Research 10 credits (卒業研究 10単位) Elective at least 36 credits (選択 36単位以上) Total at least 82 credits (合計 82単位以上)			
	Commom Basic Courses (共通基礎科目)	at least 22 credits (22単位以上)			
	Introduction to skills for academic success (「大学での学び」基礎論)	1 credit (1単位)			
	First Year Seminar (基礎セミナー)	at least 2 credits (2単位以上)			
	Language and Culture (言語文化科目)	at least 14 credits (14単位以上)			
	Japanese (日本語)	at least 8 credits (8単位以上)			
Liberal Arts and Sciences 全学教育科目	Japanese/English/Second Foreign Language (日本語/英語/初修外国語)	at least 6 credits (6単位以上)			
	Health and Sports Sciences (健康・スポーツ科学)	at least 2 credits (2単位以上)			
	Data Science (データ科学)	2 credits (2単位)			
	Introduction to Data Science (データ科学基礎)	1 credit (1単位)			
	Data Science Exercise (データ科学基礎演習)	1 credit (1単位)			
	Entrepreneurship(アントレプレナーシップ)	1 credit (1単位)			
	Liberal Arts Courses (教養科目)	at least 4 credits (4単位以上)			
	Global Liberal Arts Courses (国際理解科目)	Must acquire 2 credits from Contemporary Liberal Arts (Humanities and Social Science and Interdisciplinary/Integration of arts and sciences).			
	Contemporary Liberal Arts (現代教養科目)	Must acquire 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.			
	Problem/Project Based Learning Seminar (超学部セミナー)	(現代教養科目(人文・社会系及び学際・融合系)から2単位必修。国際理解科目, 現代教養科目(人文・社会系及び学際・融合系), 超学部セミナーから2単位選択必修。)			
Liberal Arts and Sciences 全学教育科目	Basic Courses for Specialized Fields (分野別基礎科目)	at least 26 credits (26 単位以上)			
	Basic Courses in Natural Sciences (自然系基礎科目)				
	Mathematics (数学関係)	Must acquire a total of at least 8 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 are compulsory. A total of 6 credits from Fundamentals of Chemistry I, II, Laboratory in Chemistry are compulsory.A total of 4 credits from Fundamentals of Biology I, II are compulsory.			
	Physics (物理学関係)	(微分積分学Ⅰ,Ⅱ,線形代数学Ⅰ,Ⅱ,複素関数論から計8単位以上,物理学基礎Ⅰ,Ⅱ,Ⅲ,物理学実験の8単位は必修。化学基礎Ⅰ,Ⅱ,化学実験の計6単位は必修。生物学基礎Ⅰ,Ⅱの計4単位は必修。)			
	Chemistry (化学関係)				
	Biology (生物学関係)				
	Method of Completion (履修方法)	Total at least 52 credits (合計 52単位以上)			
	Credits required for Graduation (卒業必要単位数)	at least 134 credits (134単位以上)			

(2) Advancement Requirements (進級要件)

Assessment year 判定年次	Course Categories (科目区分)	Minimum Courses／Credits Required (最低必要科目数／単位数)	Requirements (条 件 等)
At the end of the 2nd grade (2 年 終了時)	Commom Basic Courses Liberal Arts Courses Basic Courses for Specialized Fields (共通基礎科目, 教養科目,分野別基礎科目)	40credits (40単位)	1 Commom Basic Courses (一 共通基礎科目) Must acquire a total of at least 12“Language and Culture”credits from Japanese, English or Second Foreign Language. *Please note that if you choose Second Foreign Languages for Compulsory Elective(Japanese/ English/ Second Foreign Languages) credits, you must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation. 「言語文化科目」として日本語, 英語及び初修外国語から12単位以上修得すること。 ※ただし, 初修外国語を含む場合は, 卒業にはドイツ語, フランス語, ロシア語, 中国語, スペイン語及び朝鮮・韓国語のうち1外国語につき4単位以上修得する必要がある点に留意すること。 2 Basic Courses in Natural Sciences (二 自然系基礎科目) Must acquire at least 18 credits from Basic Courses in Natural Sciences(*from the courses required for graduation above) . 自然系基礎科目は, 上記の卒業に必要な科目のうちから18単位以上修得すること。

Course List （授業科目一覧）

○ Department of Chemistry and Biotechnology, Chemistry Program
化学生命工学科（化学系プログラム）

Basic Specialized Courses 専 門 基 礎 科 目

授 業 科 目 名	Course Title	Lecturer 担 当 教 員			Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修	
数学演習 1 a	Mathematics Tutorial Ia	RICHARD Serge Charles	Designated Professor		1	1 Autumn	Elective
数学演習 1 b	Mathematics Tutorial Ib	BACHMANN Henrik	Associate Professor		1	1 Autumn	Elective
物理学基礎演習 1 a	Fundamental Physics Tutorial Ia	SHIGEMORI Masaki	Professor		1	1 Autumn	Elective
物理学基礎演習 1 b	Fundamental Physics Tutorial Ib	UMEHATA Hideki	Designated Assistant Professor		1	1 Autumn	Elective
数学演習 2 a	Mathematics Tutorial II a	BOURNE Christopher Jack	Associate Professor		1	1 Spring	Elective
数学演習 2 b	Mathematics Tutorial II b	BACHMANN Henrik	Associate Professor		1	1 Spring	Elective
物理学基礎演習 2	Fundamental Physics Tutorial II	WOJDYLO John Andrew	Professor		1	1 Spring	Elective
分析化学	Analytical Chemistry	SAMJESKE Gabor Arwed	Professor		2	2 Autumn	Compulsory
有機化学1	Organic Chemistry I	SHIN Jiyoung	Professor		2	2 Autumn	Compulsory
物理化学1	Physical Chemistry I	PHUNG Quan manh	Associate Professor		2	2 Autumn	Compulsory
生化学 1	Biochemistry I	KOJIMA Seiji	Professor		2	2 Autumn	Elective
細胞学 1	Cell Biology I	NOMA Kentaro	Associate Professor		2	2 Autumn	Compulsory
解析力学 1	Analytical Mechanics I	SHIGEMORI Masaki	Professor		2	2 Autumn	Elective
数理物理学 1	Mathematical Physics I	WOJDYLO John Andrew	Professor		2	2 Autumn	Elective
数理物理学演習 1	Mathematical Physics Tutorial I	IGURO Shuhei	Designated Assistant Professor		1	2 Autumn	Elective
統計物理学 1	Statistical Physics I	ITO Yasumasa	Professor		2	2 Autumn	Elective
無機化学 1	Inorganic Chemistry I	SAMJESKE Gabor Arwed	Professor		2	2 Spring	Compulsory
有機化学 2	Organic Chemistry II	SHIN Jiyoung	Professor		2	2 Spring	Compulsory
物理化学 2	Physical Chemistry II	PHUNG Quan manh	Associate Professor		2	2 Spring	Compulsory
量子化学 1	Quantum Chemistry I	PHUNG Quan manh	Associate Professor		2	2 Spring	Compulsory
生化学 2	Biochemistry II	KOJIMA Seiji	Professor		2	2 Spring	Elective
細胞学 2	Cell Biology II	NOMA Kentaro	Associate Professor		2	2 Autumn	Elective
電磁気学	Electricity and Magnetism	WOJDYLO John Andrew	Professor		2	2 Spring	Elective
無機化学 2	Inorganic Chemistry II	SAMJESKE Gabor Arwed	Professor		2	3 Autumn	Compulsory
有機化学 3	Organic Chemistry III	SHIN Jiyoung	Professor		2	3 Autumn	Elective
量子化学 2	Quantum Chemistry II	PHUNG Quan manh	Associate Professor		2	3 Autumn	Compulsory
地球惑星科学	Earth and Planetary Science	HUMBLET Marc Andre	Associate Professor		2	3 Autumn	Elective
無機材料化学1	Chemistry of Inorganic Materials I	SAMJESKE Gabor Arwed	Professor		2	3 Autumn	Compulsory
量子化学 3	Quantum Chemistry III	FUJIMOTO Kazuhiro	Designated Associate Professor		2	3 Spring	Elective
地球環境科学	Earth Environmental Science	HUMBLET Marc Andre	Designated Associate Professor		2	3 Spring	Elective
化学生命工学実験 1	Chemistry and Biotechnology Laboratory 1	Faculty of Chemistry			3	3 Spring	Compulsory
化学生命工学実験 2	Chemistry and Biotechnology Laboratory 2	Faculty of Chemistry			3	3 Spring	Compulsory
無機化学 3	Inorganic Chemistry III	SAMJESKE Gabor Arwed	Professor		2	3 Spring	Elective

Specialized Courses		専 門 科 目					
授 業 科 目 名	Course Title	Lecturer 担 当 教 員			Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修	
生物物理学	Biophysics	TAMA Florence Muriel	Professor		2	2 Spring	Elective
有機化学 5	Organic Chemistry V	SHIN Jiyoung	Professor		2	3 Autumn	Elective
高分子化学	Polymer Chemistry	Faculty of Chemistry			2	3 Autumn	Elective
化学物理学	Chemical Physics	Takayuki UCHIHASHI	Professor		2	3 Autumn	Elective
有機化学 4	Organic Chemistry IV	SHIN Jiyoung	Professor		2	3 Spring	Elective
無機材料化学 2	Chemistry of Inorganic Materials II	SAMJESKE Gabor Arwed	Professor		2	3 Spring	Elective
計算化学	Computational Chemistry	YANAI Takeshi	Professor		2	3 Autumn	Elective
先端有機・高分子化学	Current Organic and Polymer Chemistry	Faculty of Chemistry			2	3 Spring	Elective
生化学 4	Biochemistry IV	NADANO Daita	Associate Professor		2	3 Spring	Elective
細胞学 4	Cell Biology IV	SHIBATA Hideki	Professor		2	3 Spring	Elective
化学生命工学実験 3	Chemistry and Biotechnology Laboratory III	Faculty of Chemistry			3	4 Autumn	Compulsory
化学生命工学実験 4	Chemistry and Biotechnology Laboratory IV	Faculty of Chemistry			3	4 Autumn	Compulsory
特別演習 A	Advanced Chemistry Tutorial A	Faculty of Chemistry			1	4 Autumn	Compulsory
特別演習 B	Advanced Chemistry Tutorial B	Faculty of Chemistry			1	4 Spring	Compulsory
卒業研究 A	Graduation Research A	Faculty of Chemistry			5	4 Autumn	Compulsory
卒業研究 B	Graduation Research B	Faculty of Chemistry			5	4 Spring	Compulsory

Related Specialized Courses		関 連 専 門 科 目					
授 業 科 目 名	Course Title	Lecturer 担 当 教 員			Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修	
工学概論第 3	Outline of Engineering III	LELEITO Emanuel Langat	Lecturer	Gang Zeng	Lecturer	LI Jia	Lecturer
電気電子情報先端工学概論	View of Advanced Electrical, Electronic and Information Engineering	Associated Faculty			2	3 Autumn	Elective
環境土木・建築学概論	Introduction to Civil Engineering and Architecture	Associated Faculty			2	3 Autumn	Elective
国際先端自動車工学 U1	International Lectures on Advanced Technology and Trends in Automobile Engineering U1	SAKAI Yasuhiko	Designated Professor		1	3 Spring	Elective
国際先端自動車工学 U3	International Lectures on Advanced Technology and Trends in Automobile Engineering U3	SAKAI Yasuhiko	Designated Professor		3	3 Spring	Elective

(1) Graduation Requirements (卒業要件)

Course Classifications 授 業 科 目 分 類		Department of Electrical Engineerin, Electronics, and Information Engineering 電気電子情報工学科			
		Automotive Engineering 自動車工学プログラム			
		Compulsory 必修	Compulsory Elective 選択 選必	Elective 選択	Total 合計
Courses relating to a specialized field	工 学 部	Basic Specialized Courses (専門基礎科目)			
		Number of Credits Offered (開講単位数)			
		Minimum Credits Required (取得要求単位数)			
	専 門	Specialized Courses (専門科目)			
		Number of Credits Offered (開講単位数)			
		Graduation Research (卒業研究)			
	系 科 目	Minimum Credits Required (取得要求単位数)			
		Related Specialized Courses (関連専門科目)			
		Number of Credits Offered (開講単位数)			
		Minimum Credits Required (取得要求単位数)			
Liberal Arts and Sciences	全 学 科	Total (小 計)			
		Number of Credits Offered (開講単位数)			
		Graduation Research (卒業研究)			
	目	Minimum Credits Required (取得要求単位数)			
		Method of Completion (履修方法)			
		Compulsory 53 credits (必修 53単位)			
	教 育 科	Graduation Research 10 credits (卒業研究 10単位)			
		Elective at least 27. 5 credits (選択 27. 5単位以上)			
		Total at least 90. 5credits (合計 90. 5単位以上)			
	目	Commom Basic Courses (共通基礎科目)			
		Introduction to skills for academic success (「大学での学び」基礎論)			
		First Year Seminar (基礎セミナー)			
Credits required for Graduation (卒業必要単位数)	全 学 科	Language and Culture (言語文化科目)			
		Japanese (日本語)			
		Japanese/English/Second Foreign Language (日本語/英語/初修外国語)			
	教 育 科	Health and Sports Sciences (健康・スポーツ科学)			
		Data Science (データ科学)			
		Introduction to Data Science (データ科学基礎)			
	目	Data Science Exercise (データ科学基礎演習)			
		Entrepreneurship(アントレプレナーシップ)			
		Liberal Arts Courses (教養科目)			
	目	Global Liberal Arts Courses (国際理解科目)			
		Contemporary Liberal Arts (現代教養科目)			
		Problem/Project Based Learning Seminar (超学部セミナー)			
Credits required for Graduation (卒業必要単位数)	全 学 科	Basic Courses for Specialized Fields (分野別基礎科目)			
		Basic Courses in Natural Sciences (自然系基礎科目)			
		Mathematics (数学関係)			
	教 育 科	Physics (物理学関係)			
		Chemistry (化学関係)			
		at least 22 credits (22単位以上)			
	目	A total of 10 credits from Calculus I, II, Linear Algebra I, II and Complex Analysis are compulsory. A total of 8 credits from Fundamentals of Physics I, II, III,and Laboratory in Physics are compulsory. A total of 4 credits from Fundamentals of Chemistry I, II are compulsory.			
		(微分積分学Ⅰ,Ⅱ,線形代数学Ⅰ,Ⅱ,複素関数論の計10単位は必修。物理学基礎Ⅰ,Ⅱ,Ⅲ,物理学実験の計8単位は必修。化学基礎Ⅰ,Ⅱの計4単位は必修。)			
		at least 22 credits (22単位以上)			
	目	Method of Completion (履修方法)			
		Total at least 48 credits (合計 48単位以上)			
		at least 138. 5credits (138. 5単位以上)			

(2) Advancement Requirements (進級要件)

Assessmen t year 判定年次	Course Categories (科目区分)	Minimum Courses／Credits Required (最低必要科目数／単位数)	Requirements (条 件 等)
At the end of the 2nd grade (2 年 終了時)	Commom Basic Courses Liberal Arts Courses Basic Courses for Specialized Fields (共通基礎科目, 教養科目,分野別基礎科目)	40credits (40単位)	1 Commom Basic Courses (一 共通基礎科目) Must acquire a total of at least 12“Language and Culture”credits from Japanese, English or Second Foreign Language. *Please note that if you choose Second Foreign Languages for Compulsory Elective(Japanese/ English/ Second Foreign Languages) credits, you must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation. 「言語文化科目」として日本語, 英語及び初修外国語から12単位以上修得すること。 ※ただし, 初修外国語を含む場合は, 卒業にはドイツ語, フランス語, ロシア語, 中国語, スペイン語及び朝鮮・韓国語のうち1外国語につき4単位以上修得する必要がある点に留意すること。
			2 Basic Courses in Natural Sciences (二 自然系基礎科目) Must acquire at least 18 credits from Basic Courses in Natural Sciences(*from the courses required for graduation above) . 自然系基礎科目は, 上記の卒業に必要な科目のうちから18単位以上修得すること。

Course List （授業科目一覧）

○ Department of Electrical Engineering, Electronics and Information Engineering, Automotive Engineering Program

電 気 電 子 情 報 工 学 科 （自動車工学プログラム）

Basic Specialized Courses 専 門 基 礎 科 目

授 業 科 目 名	Course Title	Lecturer 担 当 教 員				Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修
計算機ソフトウェア 1	Computer Software I	HASEGAWA Hiroshi	Professor	LU Shan	Lecturer	2	1 Autumn Compulsory
物理学基礎演習 1 a	Fundamental Physics Tutorial Ia	SHIGEMORI Masaki	Professor			1	1 Autumn Elective
物理学基礎演習 1 b	Fundamental Physics Tutorial Ib	UMEHATA Hideki	Designated Assistant Professor			1	1 Autumn Elective
物理学基礎演習 2	Fundamental Physics Tutorial II	WOJDYLO John Andrew	Professor			1	1 Spring Elective
数学 1 及び演習	Mathematics I and Tutorial	WOJDYLO John Andrew	Professor	IGURO Shuhei	Designated Assistant Professor	4	2 Autumn Compulsory
数学 2 及び演習	Mathematics II and Tutorial	FUJITA Takaaki	Professor	ENDO Tomohiro	Associate Professor	4	2 Autumn Compulsory
解析力学及び演習	Analytical Dynamics and Tutorial	SHIGEMORI Masaki	Professor	ARAIKAI Masaaki	Assistant Professor	3	2 Autumn Compulsory
電気回路工学	Electrical Circuits Engineering	KURIMOTO Muneaki	Associate Professor			2	2 Autumn Compulsory
材料力学及び演習	Mechanics of Materials and Tutorial	MATSUMOTO Toshiro	Part-Time Faculty			3	2 Autumn Compulsory
熱力学及び演習	Thermodynamics and Tutorial	ITO Yasumasa	Professor			2.5	2 Autumn Compulsory
機構学	Kinematics of Machines	Faculty of Automotive Engineering				2	2 Autumn Elective
電磁気学	Electricity and Magnetism	WOJDYLO John Andrew	Professor			2	2 Spring Compulsory
金属材料とセラミックス	Metallic and Ceramic Materials	KOBASHI Makoto	Professor	WANG Qian	Associate Professor	2	2 Spring Compulsory
電子回路工学	Electronic Circuits	OHNO Noriyasu	Professor	KURIMOTO Muneaki	Associate Professor	2	2 Spring Compulsory
固体力学	Solid Mechanics	CUI Yi	Associate Professor			2	2 Spring Elective
流体力学 1 及び演習	Fluid Mechanics I and Tutorial	ITO Yasumasa	Professor			2.5	2 Spring Compulsory
振動学及び演習	Vibration Engineering and Tutorial	CUI Yi	Associate Professor			3	2 Spring Compulsory
自動車化学システム 1	Automobile Chemical Systems I	NAGAOKA Katsutoshi	Professor	MATSUO Yutaka	Professor	2	3 Autumn Elective
計測工学	Scientific Measurements	KURIMOTO Muneaki	Associate Professor			2	3 Autumn Compulsory
制御工学及び演習	Control Engineering and Tutorial	CUI Yi	Associate Professor			3	3 Autumn Compulsory
材料加工学	Material Processing	UMEHARA Noritsugu	Professor	NISHIYAMA Kiyohisa	Part-Time Faculty	2	3 Autumn Elective

Specialized Courses		専 門 科 目						Starts (Elective/Compulsory) 開講時期及び 選択・必修		
授 業 科 目 名	Course Title	Lecturer 担 当 教 員				Credits 単位数				
数学演習 1 a	Mathematics Tutorial Ia	RICHARD Serge Charles Professor				1	1 Autumn	Elective		
数学演習 1 b	Mathematics Tutorial Ib	BACHMANN Henrik	Associate Professor			1	1 Autumn	Elective		
自動車工学概論	Introduction to Automotive Engineering	CUI Yi	Associate Professor			2	1 Autumn	Compulsory		
数学演習 2 a	Mathematics Tutorial II a	BOURNE Chris	Associate Professor			1	1 Spring	Elective		
数学演習 2 b	Mathematics Tutorial II b	BACHMANN Henrik	Associate Professor			1	1 Spring	Elective		
計算機ソフトウェア 2	Computer Software II	OTSUKA Yuichi	Associate Professor	OGAWA Kohei	Associate Professor	YONEZAWA Takuro	Associate Professor	2	2 Spring	
		IIJIMA Haruhisa	Associate Professor							
自動車構造	Vehicle Structures	KURIMOTO Muneaki	Associate Professor			2	2 Spring	Compulsory		
自動車のための電子・情報技術	Introduction to Electrical, Electronic and Information Engineering for Automobiles	Faculty of Electrical, Electronic and Information Engineering				2	2 Spring	Compulsory		
設計製図 1	Design Practice I	NAGASHIMA So	Associate Professor	TOKOROYAMA Takayuki	Associate Professor	1	2 Spring	Compulsory		
自動車工学実験 1	Automobile Engineering Laboratory I	TOKOROYAMA Takayuki	Associate Professor	LU Shan	Lecturer	2	3 Autumn	Compulsory		
分析化学	Analytical Chemistry	WANG Qian	Professor			2	3 Autumn	Elective		
都市と交通	Urban Environment and Transportation System	IIZUKA Satoru	Professor	KATO Hirokazu	Professor	IRYO Miho	Associate Professor	2	3 Autumn	Elective
		HOTTA Yoshihiro	Assistant Professor							
パワーエレクトロニクス	Power Electronics	KURIMOTO Muneaki	Associate Professor			2	3 Autumn	Compulsory		
数値解析法	Numerical Analysis	ITO Yasumasa	Professor			2	3 Autumn	Elective		
伝熱工学	Heat Transfer Engineering	ITO Yasumasa	Professor			2	3 Spring	Elective		
設計製図 2	Design Practice II	MAEDA Eijiro	Associate Professor			1	3 Autumn	Compulsory		
工場見学 A	Tours in Industrial Plants A	Faculty of Automotive Engineering				0.5	2 Spring	Elective		
工場見学 B	Tours in Industrial Plants B	Faculty of Automotive Engineering				0.5	3 Autumn	Elective		
工場実習	Training in Industrial Plants	Faculty of Automotive Engineering				1	3 Spring	Elective		
自動車工学実験 2	Automobile Engineering Laboratory II	TOKOROYAMA Takayuki	Associate Professor	LU Shan	Lecturer	2	3 Spring	Compulsory		
自動車化学システム 2	Automobile Chemical Systems II	NORINAGA Koyo	Professor	MIKSIK Frantisek	Designated associate professor	2	3 Spring	Elective		
有機材料	Organic Materials	Faculty of Molecular Design and Engineering				2	4 Autumn	Elective		
環境とリサイクル	Environment and Recycling	YOSHIDA Tomoko	Professor			2	3 Spring	Elective		
情報通信技術と自動車交通	Intelligent Transportation Systems	NAKAMURA Hideki	Professor	YAMAMOTO Toshiyuki	Professor	2	3 Spring	Elective		
		MIWA Tomio	Professor							
自動車の電子機器	Electronic Devices in Automobiles	KURIMOTO Muneaki	Associate Professor			2	3 Spring	Elective		
自動車エンジンと新動力システム	Vehicle Engines and New Propulsion Systems	Part-Time Faculty				2	3 Autumn	Elective		
自動車ダイナミクスと制御	Vehicle Dynamics and Control	ITO Akira	Part-Time Faculty			2	3 Spring	Elective		
自動車安全工学	Vehicle Safety	MIZUNO Koji	Professor	SUZUKI Tatsuya	Professor	2	4 Autumn	Elective		
車両計画と車体設計	Vehicle Design	CUI Yi	Associate Professor			2	4 Autumn	Elective		
卒業研究 A	Graduation Research A	Faculty of Automotive Engineering				5	4 Autumn	Compulsory		
卒業研究 B	Graduation Research B	Faculty of Automotive Engineering				5	4 Spring	Compulsory		

Related Specialized Courses		関 連 専 門 科 目				
授 業 科 目 名	Course Title	Lecturer 担 当 教 員			Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修
科学技術日本語	Scientific and Technical Japanese	Part-Time Faculty			2	3 Spring Elective
ビジネス日本語	Business Japanese	FURUYA Reiko Associate Professor			2	4 Autumn Elective
工学概論第 3	Outline of Engineering III	LELEITO Emanuel Langat Lecturer	Gang Zeng Lecturer	LI Jia Lecturer	2	4 Autumn Elective
電気電子情報先端工学概論	View of Advanced Electrical, Electronic and Information Engineering	Associated Faculty			2	4 Autumn Elective
環境土木・建築学概論	Introduction to Civil Engineering and Architecture	Associated Faculty			2	4 Autumn Elective
国際先端自動車工学 U1	International Lectures on Advanced Technology and Trends in Automobile Engineering U1	SAKAI Yasuhiko Designated Professor			1	3 Spring Elective
国際先端自動車工学 U3	International Lectures on Advanced Technology and Trends in Automobile Engineering U3	SAKAI Yasuhiko Designated Professor			3	3 Spring Elective

(1) Graduation Requirements (卒業要件)

Course Classifications 授 業 科 目 分 類		Department of Mechanical and Aerospace Engineering 機械・航空宇宙工学科			
		Automotive Engineering 自動車工学プログラム			
		Compulsory 必修	Compulsory Elective 選必	Elective 選択	Total 合計
Courses relating to a specialized field	工	Basic Specialized Courses (専門基礎科目)			
	学	Number of Credits Offered (開講単位数)			
	部	Minimum Credits Required (取得要求単位数)			
	専	Specialized Courses (専門科目)			
	門	Number of Credits Offered (開講単位数)			
	系	Graduation Research (卒業研究)			
	科	Minimum Credits Required (取得要求単位数)			
	目	Total (小 計)			
		Number of Credits Offered (開講単位数)			
		Graduation Research (卒業研究)			
		Minimum Credits Required (取得要求単位数)			
Liberal Arts and Sciences	全	Commom Basic Courses (共通基礎科目)			
	学	Introduction to skills for academic success (「大学での学び」基礎論)			
	教	First Year Seminar (基礎セミナー)			
	育	Language and Culture (言語文化科目)			
	科	Japanese (日本語)			
	目	Japanese/English/Second Foreign Language (日本語/英語/初修外国語)			
		Health and Sports Sciences (健康・スポーツ科学)			
		Data Science (データ科学)			
		Introduction to Data Science (データ科学基礎)			
		Data Science Exercise (データ科学基礎演習)			
		Entrepreneurship (アントレプレナーシップ)			
		Liberal Arts Courses (教養科目)			
		Global Liberal Arts Courses (国際理解科目)			
		Contemporary Liberal Arts (現代教養科目)			
		Problem/Project Based Learning Seminar (超学部セミナー)			
		Basic Courses for Specialized Fields (分野別基礎科目)			
		Basic Courses in Natural Sciences (自然系基礎科目)			
		Mathematics (数学関係)			
		Physics (物理学関係)			
		Chemistry (化学関係)			
		Method of Completion (履修方法)			
Credits required for Graduation (卒業必要単位数)		Total at least 137 credits (137単位以上)			

(2) Advancement Requirements (進級要件)

Assessmen t year 判定年次	Course Categories (科目区分)	Minimum Courses／Credits Required (最低必要科目数／単位数)	Requirements (条 件 等)
At the end of the 2nd grade (2 年 終了時)	Commom Basic Courses Liberal Arts Courses Basic Courses for Specialized Fields (共通基礎科目, 教養科目, 分野別基礎科目)	40credits (40単位)	1 Commom Basic Courses (一 共通基礎科目) Must acquire a total of at least 12“Language and Culture”credits from Japanese, English or Second Foreign Language. *Please note that if you choose Second Foreign Languages for Compulsory Elective(Japanese/ English/ Second Foreign Languages) credits, you must obtain at least 4 credits in each language from German, French, Russian, Chinese, Spanish, or Korean for graduation. 「言語文化科目」として日本語, 英語及び初修外国語から12単位以上修得すること。 ※ただし, 初修外国語を含む場合は, 卒業にはドイツ語, フランス語, ロシア語, 中国語, スペイン語及び朝鮮・韓国語のうち1外国語につき4単位以上修得する必要がある点に留意すること。 2 Basic Courses in Natural Sciences (二 自然系基礎科目) Must acquire at least 18 credits from Basic Courses in Natural Sciences(*from the courses required for graduation above) . 自然系基礎科目は, 上記の卒業に必要な科目のうちから18単位以上修得すること。

Course List （授業科目一覧）

○ Department of Mechanical and Aerospace Engineering, Automotive Engineering Program

機 械・航 空 宇 宙 工 学 科 （自動車工学プログラム）

Basic Specialized Courses

専 門 基 礎 科 目

授 業 科 目 名	Course Title	Lecturer 担 当 教 員				Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修
計算機ソフトウェア 1	Computer Software I	HASEGAWA Hiroshi	Professor	LU Shan	Lecturer	2	1 Autumn Compulsory
物理学基礎演習 1 a	Fundamental Physics Tutorial Ia	SHIGEMORI Masaki	Professor			1	1 Autumn Elective
物理学基礎演習 1 b	Fundamental Physics Tutorial Ib	UMEHATA Hideki	Designated Assistant Professor			1	1 Autumn Elective
物理学基礎演習 2	Fundamental Physics Tutorial II	WOJDYLO John Andrew	Professor			1	1 Spring Elective
数学 1 及び演習	Mathematics I and Tutorial	WOJDYLO John Andrew	Professor	IGURO Shuhei	Designated Assistant Professor	4	2 Autumn Compulsory
数学 2 及び演習	Mathematics II and Tutorial	FUJITA Takaaki	Professor	ENDO Tomohiro	Associate Professor	4	2 Autumn Compulsory
解析力学及び演習	Analytical Dynamics and Tutorial	SHIGEMORI Masaki	Professor	ARAIKAI Masaaki	Assistant Professor	3	2 Autumn Compulsory
電気回路工学	Electrical Circuits Engineering	KURIMOTO Muneaki	Associate Professor			2	2 Autumn Compulsory
材料力学及び演習	Mechanics of Materials and Tutorial	MATSUMOTO Toshiro	Part-Time Faculty			3	2 Autumn Compulsory
熱力学及び演習	Thermodynamics and Tutorial	ITO Yasumasa	Professor			2.5	2 Autumn Compulsory
機構学	Kinematics of Machines	Faculty of Automotive Engineering				2	2 Autumn Compulsory
金属材料とセラミックス	Metallic and Ceramic Materials	KOBASHI Makoto	Professor	WANG Qian	Associate Professor	2	2 Spring Compulsory
電子回路工学	Electronic Circuits	OHNO Noriyasu	Professor	KURIMOTO Muneaki	Associate Professor	2	2 Spring Elective
固体力学	Solid Mechanics	CUI Yi	Associate Professor			2	2 Spring Elective
流体力学 1 及び演習	Fluid Mechanics I and Tutorial	ITO Yasumasa	Professor			2.5	2 Spring Compulsory
振動学及び演習	Vibration Engineering and Tutorial	CUI Yi	Associate Professor			3	2 Spring Compulsory
自動車化学システム 1	Automobile Chemical Systems I	NAGAOKA Katsutoshi	Professor	MATSUO Yutaka	Professor	2	3 Autumn Elective
計測工学	Scientific Measurements	KURIMOTO Muneaki	Associate Professor			2	3 Autumn Elective
制御工学及び演習	Control Engineering and Tutorial	CUI Yi	Associate Professor			3	3 Autumn Compulsory
材料加工学	Material Processing	UMEHARA Noritsugu	Professor	NISHIYAMA Kiyohisa	Part-Time Faculty	2	3 Autumn Compulsory

Specialized Courses		専 門 科 目						
授 業 科 目 名	Course Title	Lecturer 担 当 教 員			Credits 単位数	Starts (Elective/Compulsory) 開講時期及び 選択・必修		
数学演習 1 a	Mathematics Tutorial Ia	RICHARD Serge Charles Professor			1	1 Autumn Elective		
数学演習 1 b	Mathematics Tutorial Ib	BACHMANN Henrik	Associate Professor		1	1 Autumn Elective		
自動車工学概論	Introduction to Automotive Engineering	CUI Yi	Associate Professor		2	1 Autumn Compulsory		
数学演習 2 a	Mathematics Tutorial IIa	BOURNE Chris	Associate Professor		1	1 Spring Elective		
数学演習 2 b	Mathematics Tutorial IIb	BACHMANN Henrik	Associate Professor		1	1 Spring Elective		
計算機ソフトウェア 2	Computer Software II	OTSUKA Yuichi	Associate Professor	OGAWA Kohei Associate Professor	2	2 Spring		
		IIJIMA Haruhisa	Associate Professor					
自動車構造	Vehicle Structures	KURIMOTO Muneaki	Associate Professor		2	2 Spring Compulsory		
設計製図 1	Design Practice I	NAGASHIMA So	Associate Professor	TOKOROYAMA Takayuki Associate Professor	1	2 Spring Compulsory		
分析化学	Analytical Chemistry	WANG Qian	Professor		2	3 Autumn Elective		
都市と交通	Urban Environment and Transportation System	IIZUKA Satoru	Professor	KATO Hirokazu Professor	2	3 Autumn Elective		
		HOTTA Yoshihiro	Assistant Professor					
パワーエレクトロニクス	Power Electronics	KURIMOTO Muneaki	Associate Professor		2	3 Autumn Elective		
数値解析法	Numerical Analysis	ITO Yasumasa	Professor		2	3 Autumn Elective		
伝熱工学	Heat Transfer Engineering	ITO Yasumasa	Professor		2	3 Spring Elective		
流体力学 2	Fluid Mechanics II	ITO Yasumasa	Professor		2	3 Autumn Elective		
自動車工学実験 1	Automobile Engineering Laboratory I	TOKOROYAMA Takayuki	Associate Professor	LU Shan Lecturer	2	3 Autumn Compulsory		
設計製図 2	Design Practice II	MAEDA Eijiro	Associate Professor		1	3 Autumn Compulsory		
工場見学 A	Tours in Industrial Plants A	Faculty of Automotive Engineering			0.5	2 Spring Elective		
工場見学 B	Tours in Industrial Plants B	Faculty of Automotive Engineering			0.5	3 Autumn Elective		
工場実習	Training in Industrial Plants	Faculty of Automotive Engineering			1	3 Spring Elective		
自動車化学システム 2	Automobile Chemical Systems II	NORINAGA Koyo	Professor	MIKSIK Frantisek Designated associate professor	2	3 Spring Elective		
有機材料	Organic Materials	Faculty of Molecular Design and Engineering			2	4 Autumn Elective		
環境とリサイクル	Environment and Recycling	YOSHIDA Tomoko	Professor		2	3 Spring Elective		
情報通信技術と自動車交通	Intelligent Transportation Systems	NAKAMURA Hideki	Professor	YAMAMOTO Toshiyuki Professor	2	3 Spring Elective		
		MIWA Tomio	Professor					
自動車の電子機器	Electronic Devices in Automobiles	KURIMOTO Muneaki	Associate Professor		2	3 Spring Elective		
自動車エンジンと新動力システム	Vehicle Engines and New Propulsion Systems	Part-Time Faculty			2	3 Autumn Elective		
自動車ダイナミクスと制御	Vehicle Dynamics and Control	ITO Akira	Part-Time Faculty		2	3 Spring Elective		
自動車工学実験 2	Automobile Engineering Laboratory II	TOKOROYAMA Takayuki	Associate Professor	LU Shan Lecturer	2	3 Spring Compulsory		
設計製図 3	Design Practice III	Part-Time Faculty			1	3 Spring Compulsory		
自動車安全工学	Vehicle Safety	MIZUNO Koji	Professor	SUZUKI Tatsuya Professor	2	4 Autumn Elective		
車両計画と車体設計	Vehicle Design	CUI Yi	Associate Professor		2	4 Autumn Elective		
卒業研究 A	Graduation Research A	Faculty of Automotive Engineering			5	4 Autumn Compulsory		
卒業研究 B	Graduation Research B	Faculty of Automotive Engineering			5	4 Spring Compulsory		

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ビジネス日本語	Business Japanese	FURUYA Reiko Associate Professor			2	4 Autumn Elective
工学概論第 3	Outline of Engineering III	LELEITO Emanuel Langat Lecturer	Gang Zeng Lecturer	LI Jia Lecturer	2	4 Autumn Elective
電気電子情報先端工学概論	View of Advanced Electrical, Electronic and Information Engineering	Associated Faculty			2	4 Autumn Elective
環境土木・建築学概論	Introduction to Civil Engineering and Architecture	Associated Faculty			2	4 Autumn Elective
国際先端自動車工学 U1	International Lectures on Advanced Technology and Trends in Automobile Engineering U1	SAKAI Yasuhiko Designated Professor			1	3 Spring Elective
国際先端自動車工学 U3	International Lectures on Advanced Technology and Trends in Automobile Engineering U3	SAKAI Yasuhiko Designated Professor			3	3 Spring Elective