

Course List [Faculty of Science and Technology]

Common Subjects in the Faculty of Science and Technology

	Course No.	Numbering	Course title	Cr.	Semester offered	Instructor	Student Year	Remarks
Faculty of Science and Technology Common Subject Group I	SCT1230E	SCT106-75e00	INTRODUCTION OF SCIENCE AND TECHNOLOGY	2	AUT	FUJITA, Masahiro / Others	1	◇ Team-taught course, Combined with "SCIENCE, TECHNOLOGY AND ENVIRONMENT"
	SCT1150E	MTH101-75e00	MATHEMATICS A (LINEAR ALGEBRA)	2	AUT	TRIHAN, Fabien	1	
	SCT1160E	MTH102-75e00	MATHEMATICS B (CALCULUS)	2	AUT	TRIHAN, Fabien	1	
	SCT1170E	MTH103-75e00	MATHEMATICS EXERCISE 1	1	AUT	TRIHAN, Fabien	1	
	SCT1030E	PHY101-75e00	BASIC PHYSICS 1	2	3Q	DZIEMINSKA, Edyta	1	
	SCT1190E	CHM101-75e00	BASIC CHEMISTRY	2	SPR	MISAWA, Tomoyo / PENAFLOR, Tania	1	
	SCT1200E	BIO101-75e00	BASIC BIOLOGY	2	4Q	NIKURA, Takako	1	
	SCT2030E	MTH104-75e00	BASIC INFORMATICS	2	SPR	TAKAOKA, Eiko	1	
	SCT1210E	SCT102-75e00	EXPERIMENTS & EXERCISE OF BASIC SCIENCE	1	SPR	DZIEMINSKA, Edyta / Others	1	
	SCT5130E	SCT203-75e00	ENGL. FOR SCI / ENGINEERING (ENVIRONMENT)	2	SPR	FUYUTSUKI, Seba	2	
Faculty of Science and Technology Common Subject Group II	SCT1220E	PHY102-75e00	BASIC PHYSICS 2	2	SPR	MARRA, Pasquale	1~2	S, E
	SCT6690E	MTH201-75e00	MATHEMATICS C1 (STATISTICAL DATA ANALYSIS)	2	SPR	KIMURA, Akitoshi	2	E
	SCT6650E	BIO102-75e00	MOLECULAR BIOLOGY	2	SPR	FUJIWARA, Makoto / SUZUKI, Nobuhiro	2	S, E, Team-taught course
	SCT6700E	MTH105-75e00	MATHEMATICS B2 (CALCULUS OF SEVERAL VARIABLES)	2	AUT	MASE, Makiko*	2	E
	SCT6710E	MTH106-75e00	BASIC DIFFERENTIAL EQUATIONS	2	AUT	ARAI, Mamiko*	2	E
	SCT6660E	CHM102-75e00	INORGANIC CHEMISTRY (ANALYTICAL CHEMISTRY)	2	SPR	PENAFLOR, Tania	2	S
	SCT6800E	CHM103-75e00	ORGANIC CHEMISTRY	2	SPR	SUZUKI, Yumiko	2	S
	SCT6810E	CHM202-75e00	PHYSICAL CHEMISTRY	2	AUT	NANBU, Shinkoh	2~4	
	SCT6730E	MTH202-75e00	FOURIER & LAPLACE TRANSFORMS	2	SPR	ARAI, Mamiko*	2	E
	SCT6740E	PHY202-75e00	THERMODYNAMICS	2	SPR	MARRA, Pasquale	2	E
	SCT6750E	BIO201-75e00	CELL BIOLOGY	2	AUT	HAYASHI, Kensuke	2~4	
	SCT6760E	PHY203-75e00	INTRODUCTION TO QUANTUM MECHANICS	2	AUT	MARRA, Pasquale	2~4	
	SCT6770E	PHY204-75e00	ATOMIC & MOLECULAR SCIENCES	2	SPR	HARRIES, James*	2	E
	SCT6780E	CHM201-75e00	GEOSCIENCE	2	Not Offered		3	E, ☆
	SCT6820E	CHM203-75e00	ATMOSPHERIC CHEMISTRY	2	4Q	FUYUTSUKI, Seba	3	E, ☆
	SCT6685E	PHY301-75e00	ELECTROMAGNETISM	2	SPR	MARRA, Pasquale	2	S, E
	SCT6840E	SCT204-75e00	SCIENCE, TECHNOLOGY AND ENVIRONMENT	2	AUT	FUJITA, Masahiro / Others	2	E, Team-taught course, Combined with "INTRODUCTION OF SCIENCE AND TECHNOLOGY" ★
	SCT6830E	BIO202-75e00	FUNDAMENTAL BIOCHEMISTRY	2	Not Offered		2~4	
	SCT6850E	SCT205-75e00	TECHNOLOGY & INNOVATION - CAREER DEVELOPMENT -	2	SPR	Co.)TANAKA, Hidetake / Others	2~4	Intensive Course, Combined with GSE30090 offered by General Studies★
	SCT6870E	CHM208-75e00	CHEMISTRY OF MATERIALS	2	3Q	FUYUTSUKI, Seba	2~4	Only for GE students. Combined with "MATERIALS AND LIFE SCIENCES (CHEMISTRY)"
	SCT6880E	MEC213-75e00	APPLIED MECHANICS	2	AUT	ZHANG, Yuelin	2~4	Only for GS students. Combined with "ENGINEERING AND APPLIED SCIENCES 1"
	SCT62100	MEC205-77e00	NUMERICAL ANALYSIS	2	SPR	DZIEMINSKA, Edyta	2・3	Not counted for the graduation requirements for the students who entered in and before 2025.
	N99226	SAC213-75e00	STUDY ABROAD (INTERNSHIP)	2	SPR	MIYATAKE, Masafumi	1~4	S, E, Intensive Course ※1

[] = Lottery Courses. Number in brackets is the capacity.

Instructor's name with * = adjunct instructor

S = Compulsory Elective for Green Science Course Students

E = Compulsory Elective for Green Engineering Course Students

◇ = This course cannot be registered by students that have already registered in OUTLINE OF SCIENCE AND TECHNOLOGY

☆ = Every Other Year

★ = This course cannot be registered by students who entered from 2023.

※1 Those who participate in the program and achieve the prescribed results will be awarded credits for the above subjects. There is no need to register for the courses.

Students in their last semester can also participate in the programs but please keep in mind that no credits will be awarded.

For details on eligibility, application period, etc., please refer to the "Study Abroad Handbook" published by the Center for Global Education and Discovery and the bulletin board.

Grades of P (Pass) or X (Fail) will be used for these courses.

Course List [Department of Materials and Life Sciences (Green Science)]

	Course No.	Numbering	Course title	Cr.	Semester offered	Instructor	Student Year	Remarks
Department Core Courses	SML2040E	PHY101-76e00	MATERIALS AND LIFE SCIENCES (PHYSICS)	2	AUT	MARRA, Pasquale	2	
	SML2050E	CHM101-76e00	MATERIALS AND LIFE SCIENCES (CHEMISTRY)	2	3Q	FUYUTSUKI, Seba	2	
	SML2060E	BIO101-76e00	MATERIALS AND LIFE SCIENCES (BIOLOGY)	2	AUT	KAWAGUCHI / YASUGI	2	
	SML2070E	MLS101-76e00	MATERIALS AND LIFE SCIENCES LAB. A	1	AUT	KIKAWADA / HASHIMOTO / N.SUZUKI / FUJIWARA / HARADA / N.SUZUKI / FUYUTSUKI / YASUGI / VILLAREAL /	2	
	SML2080E	MLS201-76e00	MATERIALS AND LIFE SCIENCES LAB. B	1	SPR	HORIKOSHI / HOSHINO / YOKOTA / PEÑAFLO	2	
	SML3030E	MLS202-76e00	MATERIALS AND LIFE SCIENCES LAB. C	1	3Q	Y.SUZUKI / USUKI / TANAKA / PEÑAFLO	3	
	SML5130E	CHM201-76e00	CHEMISTRY LAB. 1	1	4Q	UCHIDA / NAGAO / MISAWA / PEÑAFLO	3	
	SML5140E	CHM301-76e00	CHEMISTRY LAB. 2	1	1Q	TAKEOKA / N.SUZUKI / WITULSKI / HARADA	3	
	SML5150E	MLS303-76e00	PHYSICAL CHEMISTRY LAB.	1	2Q	NANBU / OKADA / KUZE	3	
	SML5210E	BIO201-76e00	BIOLOGY LAB. 1	1	4Q	KONDO / FUJIWARA / VILLAREAL / OTSUBO	3	
	SML5220E	BIO301-76e00	BIOLOGY LAB. 2	1	1Q	KAWAGUCHI / N.SUZUKI / VILLAREAL	3	
	SML5230E	BIO302-76e00	BIOLOGY LAB. 3	1	2Q	YASUGI / NIKURA / HAYASHI / KURABAYASHI / VILLAREAL	3	
	SML4030E	MLS301-76e00	SEMINAR 1	1	AUT	Supervisor	4	
	SML4040E	MLS302-76e00	SEMINAR 2	1	SPR	Supervisor	4	
	SML4050E	MLS401-76e00	GRADUATION RESEARCH 1	1	AUT	Supervisor	4	
	SML4060E	MLS402-76e00	GRADUATION RESEARCH 2	1	SPR	Supervisor	4	
Department Specialized Courses	SML6490E	PHY301-76e00	ATOMIC AND MOLECULAR SPECTROSCOPY	2	Not Offered		1~4	☆
	SML6500E	CHM302-76e00	INSTRUMENTAL ANALYSIS	2	AUT	NAGAO / KUZE / UCHIDA / Y.SUZUKI / HASHIMOTO / MISAWA / PEÑAFLO	1~4	Team taught course
	SML6510E	CHM303-76e00	ORGANIC AND NATURAL PRODUCT CHEMISTRY	2	AUT	USUKI Toyonobu	1~4	
	SML6520E	CHM304-76e00	ENVIRONMENTAL ANALYTICAL CHEMISTRY	2	SPR	FUYUTSUKI Seba	1~4	☆
	SML6530E	CHM305-76e00	GREEN CHEMISTRY	2	SPR	HORIKOSHI, Satoshi	1~4	
	SML6660E	PHY304-76e00	RADIATION PHYSICS AND CHEMISTRY	2	SPR	ODAGIRI Takeshi	1~4	
	SML6550E	CHM306-76e00	CATALYSIS CHEMISTRY	2	AUT	SUZUKI, Noriyuki	1~4	
	SML6570E	CHM302-76e00	THEORY-AIDED MOLECULAR DESIGN	2	AUT	NANBU Shinkoh	1~4	☆
	SML6580E	PHY303-76e00	QUANTUM REACTION DYNAMICS	2	AUT	HOSHINO Masamitsu	1~4	☆
	SML6590E	BIO303-76e00	TOPICS OF PLANT SCIENCE	2	SPR	N.SUZUKI / FUJIWARA	1~4	
	SML6630E	CHM309-76e00	STRUCTURAL CHEMISTRY	2	Not Offered		1~4	☆
	SML6700E	CHM310-76e00	SEPARATION CHEMISTRY IN ANALYSIS	2	Not Offered		1~4	
	SML6710E	CHM323-76e00	METALLIC AND ELECTRONIC MATERIALS	2	SPR	YOKOTA, Yukie	1~4	
	SML6720E	CHM311-76e00	POLYMER CHEMISTRY	2	SPR	FUJITA / TAKEOKA	1~4	Team taught course
	SML6740E	MLS306-76e00	NATURAL PRODUCT AND DRUG DISCOVERY	2	3Q	LUHATA, Lokadi	1~4	
	SML6760E	CHM324-76e00	INTRODUCTION TO MODELING OF NATURAL PHENOMENA	2	Not offered		1~4	☆
	SML5170E	MLS301-76e00	RESEARCH TOPICS IN LIFE SCIENCES	2	AUT	YASUGI / KAWAGUCHI / KONDO / FUJIWARA / KANZAWA / N.SUZUKI / OTSUBO / KURABAYASHI	1~4	☆
	SML5180E	MLS302-76e00	RESEARCH TOPICS IN ORGANIC AND INORGANIC CHEMISTRY	2	Not offered		1~4	☆
	SML6750E	MLS301-76e00	RESEARCH TOPICS IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS	2	Not offered		1~4	☆
	GSS20510	ENV206-02e00	ENVIRONMENTAL SCIENCE	2	AUT/SPR	SUGIURA Mikiko	1~4	
	GSS20520	CMF203-02e00	SUSTAINABLE DEVELOPMENT	2	1Q/3Q	SUGIURA Mikiko	1~4	
	SML80300	MLS304-76j00	RESEARCH TRIAL (Spring)	1	SPR	Supervisor	3	※1
	SML80400	MLS305-76j00	RESEARCH TRIAL (Autumn)	1	AUT	Supervisor	3	※1

☆ = Every Other Year

※1:Not counted for graduation requirement. Please check P.FST27~ for details.

Course List

[Department of Engineering and Applied Sciences (Green Engineering)]

	Course No.	Numbering	Course title	Cr.	Semester offered	Instructor	Student Year	Remarks
Department Core Courses	SEA2040E	MEC101-77e00	ENGINEERING AND APPLIED SCIENCES 1	2	AUT	ZHANG, Yuelin	2	Combined with "APPLIED MECHANICS"
	SEA2050E	PHY101-77e00	ENGINEERING AND APPLIED SCIENCES 2	2	AUT	MARRA, Pasquale	2	Combined with "MATERIAL AND LIFE SCIENCE (PHYSICS)"
	SEA2060E	EEE201-77e00	ENGINEERING AND APPLIED SCIENCES 3	2	1Q	KONG, Deshi	2	
	SEA2070E	EAS101-77e00	ENGINEERING AND APPLIED SCIENCES LAB. 1	1	AUT	SUZUKI / KIKUCHI / SAKAI / HISAMORI / NAKAMURA / TOGASHI / ZHANG	2	
	SEA2080E	EAS201-77e00	ENGINEERING AND APPLIED SCIENCES LAB. 2	1	SPR	SAKAMA* / SHIMOMURA / TAKAI / KUWAHARA / GOTO / NAKAMURA / WATANABE / TAKEHARA / TOGASHI / YILMAZ / DZIEMINSKA / KONG	2	
	SEA5140E	PHY301-77e00	GREEN ENGINEERING LAB. 1	1	SPR	MARRA, Pasquale	2	
	SEA5150E	MEC301-77e00	GREEN ENGINEERING LAB. 2	1	SPR	ICHIYANAGI / TANAKA / NAGASHIMA / TAKEHARA / HISAMORI	3	
	SEA5160E	EEE301-77e00	GREEN ENGINEERING LAB. 3	1	AUT	SAKAMOTO / TOGASHI / NOMURA / TAKAO / MIYATAKE / KONG	3	
	SEA5170E	EAS301-77e00	TOPICS OF GREEN ENGINEERING 1	2	3Q	DZIEMINSKA, Edyta	3	
	SEA5180E	EAS302-77e00	TOPICS OF GREEN ENGINEERING 2	2	AUT	KONDO, Atsushi*	3	
	SEA4030E	EAS401-77e00	GRADUATION RESEARCH 1	1	AUT	Supervisor	4	
	SEA4040E	EAS402-77e00	GRADUATION RESEARCH 2	1	SPR	Supervisor	4	
Department Specialized Courses	SEA6520E	MEC302-77e00	THERMAL ENERGY CONVERSION	2	AUT	SUZUKI, Takashi	1~4	
	SEA6530E	MEC303-77e00	FLUID ENERGY CONVERSION	2	SPR	WATANABE, Mariko	1~4	
	SEA6540E	MEC304-77e00	ENERGY & MATERIALS	2	AUT	TAKAI, Kenichi	1~4	
	SEA6550E	EEE302-77e00	NUCLEAR ENERGY ENGINEERING	2	AUT	LIEM*/YOSHIKAWA* /HIRADE*/ SHIBA*/TATSUZAKI*/ KONG / YAGAI / SAKAMOTO /	1~4	Every Other Week, Team-taught course
	SEA6690E	EEE306-77e00	MOTOR DRIVE SYSTEMS	2	Not offered		1~4	☆
	SEA6590E	EEE305-77e00	CLEAN ENERGY	2	SPR	YAGAI, Tsuyoshi	1~4	
	SEA6600E	EAS303-77e00	SIMULATION ENGINEERING	2	Not offered		1~4	☆
	SEA6610E	INF308-77e00	COMMUNICATION AND NETWORK ENGINEERING	2	SPR	BANDAI / OGAWA / HAYASHI / TAKAHASHI	1~4	Team-taught course
	SEA6620E	EAS403-77e00	TOPICS OF GREEN ENGINEERING 3	2	2Q	KONG, Deshi	1~4	
	SEA6650E	EAS404-77e00	AIRCRAFT DESIGN WITH MECHANICS OF FLIGHT	2	1Q	DZIEMINSKA, Edyta	1~4	
	SEA6585E	EEE304-77e00	POWER ELECTRONICS	2	SPR	MIYATAKE, Masafumi	1~4	☆
	SEA6580E	EEE303-77e00	ELECTRIC POWER SYSTEM ENGINEERING	2	AUT	SAKAMOTO, Orie	1~4	
	SEA6700E	EEE308-77e00	FUNDAMENTALS OF SYSTEM ANALYSIS	2	AUT	KONG, Deshi	1~4	
	GSS20510	ENV206-02e00	ENVIRONMENTAL SCIENCE	2	SPR / AUT	SUGIURA, Mikiko	1~4	[100]
	GSS20520	CMF203-02e00	SUSTAINABLE DEVELOPMENT	2	1Q / 3Q	SUGIURA, Mikiko	1~4	[100]
	SEA80300	EAS304-77j00	RESEARCH TRIAL (Spring)	1	SPR	Supervisor	3	※1
	SEA80400	EAS305-77j00	RESEARCH TRIAL (Autumn)	1	AUT	Supervisor	3	※1

Instructor's name with * = adjunct instructor

☆=Every Other Year

※1:Not counted for graduation requirement. Please check P.FST36 for details.

List for Corresponding Courses [Faculty of Science and Technology]

* Although the language of instruction for the following courses are different, courses listed here are regarded as identical courses.
The students may only take one of the two courses.

English			Japanese	
Course No.	Course Title		Course No.	Course Title
SCT6740E	THERMODYNAMICS	⇔	SCT68300	熱力学
SCT6760E	INTRODUCTION TO QUANTUM DYNAMICS	⇔	SCT68900	量子力学入門
SCT6770E	ATOMIC & MOLECULAR SCIENCES	⇔	SCT64800	原子・分子科学
SCT6650E	MOLECULAR BIOLOGY	⇔	SCT66800	分子生物学
SCT6750E	CELL BIOLOGY	⇔	SCT62300	細胞生物学
SCT6800E	ORGANIC CHEMISTRY	⇔	SCT60600	有機化学（有機分子）
SML6510E	ORGANIC AND NATURAL PRODUCT CHEMISTRY	⇔	SML61500	天然有機化学
SML6530E	GREEN CHEMISTRY	⇔	SML61700	グリーンケミストリー
SML6660E	RADIATION PHYSICS AND CHEMISTRY	⇔	SML62500	放射線科学
SML6550E	CATALYSIS CHEMISTRY	⇔	SML65300	触媒反応化学
SML6570E	THEORY-AIDED MOLECULAR DESIGN	⇔	SML64200	理論分子設計
SML6580E	QUANTUM REACTION DYNAMICS	⇔	SML65100	原子衝突物理学
SML6590E	TOPICS OF PLANT SCIENCE	⇔	SML65200	植物生理学
		⇔	SML65500	植物バイオテクノロジー
SML6630E	STRUCTURAL CHEMISTRY	⇔	SML60100	分子構造化学
SML6700E	SEPARATION CHEMISTRY IN ANALYSIS	⇔	SML60400	分離分析化学
SEA2040E	ENGINEERING AND APPLIED SCIENCES 1	⇔	SEA10200	機能創造理工学 1
SEA2050E	ENGINEERING AND APPLIED SCIENCES 2	⇔	SEA10300	機能創造理工学 2
SEA2060E	ENGINEERING AND APPLIED SCIENCES 3	⇔	SEA20400	機能創造理工学 3
SEA6520E	THERMAL ENERGY CONVERSION	⇔	SEA60400	熱エネルギー変換
SEA6530E	FLUID ENERGY CONVERSION	⇔	SEA60500	流体エネルギー変換
SEA6540E	ENERGY & MATERIALS	⇔	SEA61800	エネルギーと材料
SEA6690E	MOTOR DRIVE SYSTEMS	⇔	SEA67600	モータドライブシステム I
		⇔	SEA67700	モータドライブシステム II
SEA6580E	ELECTRIC POWER SYSTEM ENGINEERING	⇔	SEA65600	電力系統工学
SEA6610E	COMMUNICATION AND NETWORK ENGINEERING	⇔	SIC61700	通信ネットワークシステム
SEA6590E	CLEAN ENERGY	⇔	SEA65700	電気機器学
SEA6585E	POWER ELECTRONICS	⇔	SEA65800	パワーエレクトロニクス
SEA6700E	FUNDAMENTALS OF SYSTEM ANALYSIS	⇔	SEA63100	システム解析の基礎
SML6710E	METALLIC AND ELECTRONIC MATERIALS	⇔	SML65800	金属・電子材料
SML6720E	POLYMER CHEMISTRY	⇔	SML62800	高分子化学
		⇔	SML62900	ソフトマテリアル
SML6620E	TOPICS OF GREEN SCIENCE 3	⇔	SML64500	細胞機能工学
SCT6820E	ATMOSPHERIC CHEMISTRY	⇔	SML65600	大気化学