

List of Graduate Courses Available to Undergraduate-level International Exchange Students <For 3Q, 4Q of the 2021-2022 Academic Year>

As of September 2021

Eligibility for Acceptance

- Students must be final year undergraduates or at an equivalent level.
- Students must meet the specific criteria for each course defined by the instructor and indicated in the final column of the table.
- Students must be enrolled on an appropriate exchange program that allows access to these courses.

NOTE: TAKING ANY GRADUATE-LEVEL COURSE (400-LEVEL OR HIGHER) THAT IS NOT ON THIS LIST IS NOT PERMITTED UNDER ANY CIRCUMSTANCE. EVEN IF THE COURSE INSTRUCTOR INDIVIDUALLY APPROVES YOUR ENROLLMENT, YOUR REGISTRATION FOR SUCH A COURSE WILL BE REJECTED.

3Q: October 1st-December 2nd, 4Q: December 3rd-February 12th

Major / Course Category	No.	Course Name	Lecturer	Quarter	Eligibility criteria or prerequisite knowledge, etc.
Graduate major in Mathematics	MTH.A407	Advanced topics in Algebra C1	Taguchi Yuichiro	3Q	Undergraduate level knowledge of abstract algebra and number theory
Graduate major in Mathematics	MTH.A408	Advanced topics in Algebra D1	Taguchi Yuichiro	4Q	Undergraduate level knowledge of abstract algebra and number theory
Graduate major in Mathematics	MTH.B407	Advanced topics in Geometry C1	Masai Hidetoshi	3Q	
Graduate major in Mathematics	MTH.B408	Advanced topics in Geometry D1	Masai Hidetoshi	4Q	
Graduate major in Mathematics	MTH.C407	Advanced topics in Analysis C1	Yanagida Eiji	3Q	Undergraduate level knowledge of functional analysis and differential equations
Graduate major in Mathematics	MTH.C408	Advanced topics in Analysis D1	Yanagida Eiji	4Q	Undergraduate level knowledge of functional analysis and differential equations
Graduate major in Mathematics	MTH.E444	Special Lecture on Science in English (Mathematics 6)	Mcshane Gregory	3Q	
Graduate major in Physics	PHY.Q434	Field Theory II	Ito Katsushi	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.Q435	Quantum Information	Tilma Todd	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.F432	Astrophysics	Matsuhara Hideo	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.S440	Statistical Mechanics III	Sasamoto Tomohiro	4Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.C450	Quantum Theory of Electrons in Solids	Ishizuka Hiroaki	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.C446	Light and Matter I	Kozuma Mikio	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.C448	Light and Matter III	Notomi Masaya	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.C444	Quantum Transport	Fujisawa Toshimasa	3Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.C445	Surface Physics	Hashizume Tomihiro	4Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Physics	PHY.C449	Laser Physics	Somiya Kentaro	4Q	Students are required to have knowledge of the undergraduate level of physics, electricity and magnetism, analytical dynamics, quantum mechanics, thermodynamics and statistical mechanics.
Graduate major in Earth and Planetary Sciences	EPS.A426	Advanced Earth and Space Sciences I	Ishikawa Akira	3Q	
Graduate major in Earth and Planetary Sciences	EPS.A427	Advanced Earth and Space Sciences J	Ida Shigeru, Hemlund John William	3Q	
Graduate major in Mechanical Engineering	MEC.H432	Multibody Systems	Okuma Masaaki, Furuya Hiroshi	3Q	
Graduate major in Mechanical Engineering	MEC.G433	Joining	Sato Chiaki, Yamazaki Takahisa	4Q	
Graduate major in Mechanical Engineering	MEC.M434	Space Robotics	Nakanishi Hiroki	4Q	
Graduate major in Mechanical Engineering	MEC.H433	Mechatronics Device and Control	Yamaura Hiroshi	4Q	
Graduate major in Mechanical Engineering	MEC.H434	Advanced Course of Actuator Engineering	Suzumori Koichi, Yoshida Kazuhiro	3Q	
Graduate major in Mechanical Engineering	MEC.C433	Solid Dynamics	Inoue Hirotsugu	3Q	Knowledge of Fundamental Theory of Elasticity
Graduate major in Mechanical Engineering	MEC.E432	Properties of Solid Materials	Murakami Yoichi, Fushinobu Kazuyoshi	3Q	
Graduate major in Mechanical Engineering	MEC.G432	Metallforming	Yoshino Masahiko, Ohtake Naoto	3Q	
Graduate major in Mechanical Engineering	MEC.M433	Space Systems Analysis A	Furuya Hiroshi	4Q	
Graduate major in Mechanical Engineering	MEC.E433	Advanced Thermal-Fluids Measurement	Kikura Hiroshige, Saito Takushi	4Q	
Graduate major in Mechanical Engineering	MEC.J431	Ultra-precision Measurement	Yoshioka Hayato, Hatusuzawa Takeshi, Hara Seichiro	3Q	
Graduate major in Mechanical Engineering	MEC.U431	Automotive Structural System Engineering A	Yamaura Hiroshi, Okuma Masaaki, Inaba Kazuaki	3~4Q	
Graduate major in Mechanical Engineering	MEC.U432	Automotive Comfort Mechanics Engineering A	Yamakitani Masaki, Hanamura Katsunori, Okuma Masaaki	3~4Q	
Graduate major in Mechanical Engineering	MEC.U433	Advanced Production Engineering A	Suzuki Sadami, Yoshino Masahiko, Takahashi Kunio	3~4Q	
Graduate major in Mechanical Engineering	MEC.U434	Advanced Internal Combustion Engine Engineering and Future Power Train A	Kosaka Hidenori, Hanamura Katsunori, Hirai Shuichiro	3~4Q	
Graduate major in Mechanical Engineering	MEC.D433	Self-excited vibration	Nakano Yutaka	3Q	Students must have knowledge about vibration analysis method for one degree of freedom system and multi degree of freedom system.
Graduate major in Mechanical Engineering	MEC.H435	Machine Dynamics of Rigid Systems	Takeda Yukio	3Q	

Graduate major in Systems and Control Engineering	SCE.C401	System Identification and Estimation	Yamakita Masaki	3Q	Basic mathematical system modeling
Graduate major in Systems and Control Engineering	SCE.I432	Acoustic Measurement Engineering	Hachiya Hiroyuki	3Q	
Graduate major in Systems and Control Engineering	SCE.S402	Fluid Robotics	Tsukagoshi Hideyuki	3Q	
Graduate major in Systems and Control Engineering	SCE.A404	Nonlinear Dynamics	Nakao Hiroya	3Q	Elementary knowledge of mathematics and physics
Graduate major in Systems and Control Engineering	SCE.C452	Nonlinear and Adaptive Control	Hayakawa Tomohisa	3Q	Basic knowledge on linear system theory and transfer functions
Graduate major in Systems and Control Engineering	SCE.C451	Optimal Control	Hatanaka Takeshi	4Q	
Graduate major in Systems and Control Engineering	SCE.A405	Inverse Problems and Data Assimilation	Amaya Kenji	3Q	Students must have successfully completed linear algebra, basics of mathematics for engineering, computer programming
Graduate major in Systems and Control Engineering	SCE.C453	Network Control Systems	Ishizaki Takayuki	4Q	Basic knowledge on linear system theory
Graduate major in Systems and Control Engineering	SCE.I454	Computer Vision	Okutomi Masatoshi	4Q	
Graduate major in Systems and Control Engineering	SCE.I402	Advanced Course of Sensing System Theory	Ohyama Shinji	4Q	
Graduate major in Systems and Control Engineering	SCE.I404	Automobile Transportation System and Environmental Impact	Sato Susumu	4Q	
Graduate major in Systems and Control Engineering	SCE.I433	Intelligent Communication and Social Interaction	Nakada Kazuhiro, Itoyama Katsutoshi	3Q	
Graduate major in Electrical and Electronic Engineering	EEE.D421	Imaging Materials	Iino Hiroaki	3Q	
Graduate major in Electrical and Electronic Engineering	EEE.D441	Information Storage Engineering	Nakagawa Shigeki, Takamura Yota	4Q	
Graduate major in Electrical and Electronic Engineering	EEE.P402	Control and analysis of power and motor drive systems	Fujita Hideaki	3Q	Undergraduate-level knowledge of electric machinery is required.
Graduate major in Electrical and Electronic Engineering	EEE.P413	Power electronics application to power systems	Hagihara Makoto	3Q	
Graduate major in Electrical and Electronic Engineering	EEE.P414	Power electronics control and analysis	Fujita Hideaki	4Q	It is required to understand the knowledge taught in the undergraduate power electronics course.
Graduate major in Electrical and Electronic Engineering	EEE.S411	Guided Wave Circuit Theory	Nishikata Atsuhiko, Aoyagi Takahiro	3Q	Knowledge of electromagnetism is required.
Graduate major in Information and Communications Engineering	ICT.A413	Communications and Computer Engineering II	Takahashi Atsushi, Nakahara Hiroki, Takagi Shigetaka, Nakamoto Takamichi, Ishiki Tsuyoshi, Motomura Masato, Hara Yuku, Yu Jaehoon, Sasaki Hiroshi	3Q	Sufficient basic academic skills in information and communications
Graduate major in Information and Communications Engineering	ICT.S414	Advanced Signal Processing (ICT)	Yamada Isao	3Q	Basic knowledge of linear algebra, multivariate calculus, complex analysis, Fourier analysis and digital signal processing
Graduate major in Information and Communications Engineering	ICT.I419	VLSI Layout Design	Takahashi Atsushi	4Q	Sufficient basic academic skills in integrated circuits and algorithm
Graduate major in Information and Communications Engineering	ICT.H416	Statistical Theories for Brain and Parallel Computing	Kumazawa Itsuo	3Q	Basic knowledge of linear algebra
Graduate major in Information and Communications Engineering	ICT.A418	Human-Centric Information Systems II	Nagai Takehiro, Yamauchi Masahiro, Koike Yasuharu, Shinozaki Takahiro, Nakamoto Takamichi, Kurosawa Minoru, Kumazawa Itsuo, Kaneko Hirohiko, Okumura Manabu, Suzuki Kenji, Holme Johan Petter, Watanabe Yoshihiro, Motomura Masato	4Q	Sufficient basic academic skills in information and communications
Graduate major in Information and Communications Engineering	ICT.H421	Medical Imaging Systems	Nakamura Kentaro, Tabaru Marie, Obi Takashi	4Q	Acquisition of basics of Fourier transform and electrical circuits
Graduate major in Information and Communications Engineering	ICT.H422	Computational Brain	Koike Yasuharu, Yoshimura Natsue	4Q	Sufficient basic academic skills in integrated circuits and algorithm
Graduate major in Information and Communications Engineering	ICT.I415	VLSI System Design	Ishiki Tsuyoshi	3Q	Acquisition of basics of logic circuits, electrical circuits and integrated circuits
Graduate major in Industrial Engineering and Economics	IEE.D435	Computers in Society	Seaborn Katie	4Q	High English ability
Graduate major in Materials Science and Engineering	MAT.C412	Polymeric Biomaterials	Tsuge Takeharu, Hayashi Tomohiro	3Q	
Graduate major in Materials Science and Engineering	MAT.C414	Introduction to Solid State Science	Kumagai Yu, Majima Yutaka, Kamiya Toshio, Kawai Hitoshi, Sasaagawa Takao, Hiramatsu Hidenori, Matsuishi Satoru, Nakatsuji Kan, Gohda Yoshihiro, Haindl Silvia	4Q	
Graduate major in Materials Science and Engineering	MAT.M403	Environmental Degradation of Materials	Tada Eiji	4Q	
Graduate major in Materials Science and Engineering	MAT.M419	Microscopic characterization of solid materials	Chai Yaw Wang	4Q	
Graduate major in Materials Science and Engineering	MAT.M425	Recovery, Recrystallization and Texture of Metals	Tahara Masaki, Inamura Tomonari	3Q	
Graduate major in Materials Science and Engineering	MAT.M428	Properties and manufacturing process for automotive sheet steels	Yoshinaga Naoki	3~4Q	
Graduate major in Materials Science and Engineering	MAT.P403	Soft Materials Physics	Vacha Martin	3Q	
Graduate major in Materials Science and Engineering	MAT.P404	Soft Materials Functional Physics	Hayamizu Yuhei	4Q	
Graduate major in Materials Science and Engineering	MAT.P414	Soft Materials Function	Michinobu Tsuyoshi	3Q	
Graduate major in Materials Science and Engineering	MAT.P426	Thermal Properties of Materials	Morikawa Junko	4Q	
Graduate major in Chemical Science and Engineering	CAP.A423	Advanced Organic Synthesis I	Ito Shigekazu	3Q	Knowledge of bachelor level organic chemistry is desirable.
Graduate major in Chemical Science and Engineering	CAP.A424	Advanced Organic Synthesis II	Ito Shigekazu	4Q	Knowledge of bachelor level organic chemistry is desirable.
Graduate major in Chemical Science and Engineering	CAP.I438	Functionalized Nano-Materials Chemistry I	Hara Masahiko, Nomura Junko	3Q	Fundamental knowledge of materials chemistry is desirable.
Graduate major in Chemical Science and Engineering	CAP.I445	Functionalized Nano-Materials Chemistry II	Hara Masahiko	4Q	Fundamental knowledge of materials chemistry is desirable.
Graduate major in Chemical Science and Engineering	CAP.I417	Introduction to Chemical Engineering (Unit Operation)	Waki Keiko	3Q	
Graduate major in Chemical Science and Engineering	CAP.C432	Physico-Chemical Property Analysis in Chemical Engineering	Taniguchi Izumi	3Q	Fundamental knowledge of chemical engineering and transport phenomena is required.
Graduate major in Chemical Science and Engineering	CAP.I423	Advanced Organic Materials Chemistry	Fukushima Takanori, Shoji Yoshiaki	3Q	
Graduate major in Chemical Science and Engineering	CAP.I416	Catalysis for the Environmental Issues	Yokoi Toshiyuki, Nomura Junko, Motokura Ken, Manaka Yuichi	3Q	
Graduate major in Chemical Science and Engineering	CAP.C441	Transport Phenomena and Operation	Yoshikawa Shiro	4Q	
Graduate major in Chemical Science and Engineering	CAP.I435	Advanced Geochemistry	Toyoda Sakae, Yamada Keita	3Q	
Graduate major in Chemical Science and Engineering	CAP.C433	Phase Equilibrium Analysis in Chemical Engineering	Shimoyama Yusuke	3Q	Fundamental knowledge of chemical engineering and separation operation is required.
Graduate major in Chemical Science and Engineering	CAP.C443	Advanced Reaction-Separation Process	Tago Teruoki, Shimoyama Yusuke	4Q	Fundamental knowledge of chemical reaction engineering and separation operation and process is required.

Graduate major in Chemical Science and Engineering	CAP.I446	Nano-Surface Chemistry and Advanced Devices	Hara Masahiko, Sven Ingebrandt, Hans-Juergen Karl Butt, Andreas Offenhaeusser	4Q	Fundamental knowledge of materials chemistry is desirable.
Graduate major in Chemical Science and Engineering	CAP.C445	Advanced Topics of Chemical Science and Engineering	Lionel Lam Kar Wei	4Q	
Graduate major in Mathematical and Computing Science	MCS.T405	Theory of Algorithms	Ito Toshiya	3Q	
Graduate major in Mathematical and Computing Science	MCS.T413	Quantum Computation and Quantum Information	Mori Ryuhei	3Q	
Graduate major in Mathematical and Computing Science	MCS.T417	Topics in Algebra	Tsuchioka Shunsuke	4Q	
Graduate major in Computer Science	CSC.T431	Cyber-Physical Systems	Watanabe Takuo	3Q	Programming Languages, Operating Systems, Formal Language Theory, Mathematical Logic, Computer Architecture
Graduate major in Computer Science	CSC.T433	Advanced Computer Architecture	Kise Kenji	4Q	Eligibility criteria or prerequisite knowledge, etc. Applicants should preferably have basic knowledge of computer architecture
Graduate major in Computer Science	CSC.T442	Internet Applications	Ohta Masataka	4Q	
Graduate major in Life Science and Technology	LST.A406	Molecular Developmental Biology and Evolution	Kume Shoen, Kawakami Atsushi, Tanaka Mikiko, Kajikawa Masaki, Nikaido Masato	3Q	
Graduate major in Life Science and Technology	LST.A408	Computational Biology	Itoh Takehiko, Yamada Takuji, Kitao Akio	3Q	
Graduate major in Life Science and Technology	LST.A409	Physical Biology of the Cell	Hayashi Nobuhiro, Murakami Satoshi, Taguchi Hideki, Tokunaga Makio, Ishii Yoshitaka	4Q	Acquisition of basics of physical chemistry.
Graduate major in Life Science and Technology	LST.A407	Science of Metabolism	Hirasawa Takashi, Shiraki Nobuaki, Yamamoto Naoyuki, Kato Akira	3Q	Undergraduate-level basic knowledge of biochemistry, molecular biology and cell biology.
Graduate major in Life Science and Technology	LST.A410	Advanced Neuroscience	Ichinose Hiroshi, Suzuki Takashi, Miyashita Eizo, Akama Hiroyuki	4Q	Acquisition of basics of advanced neuroscience.
Graduate major in Life Science and Technology	LST.B404	International Career Development Basics	Suzuki Takashi, Kobatake Eiry, Kume Shoen	3~4Q	
Graduate major in Life Science and Technology	LST.A421	Functional Life Science	Nakamura Nobuhiro, Orihara Kanami, Koshikawa Naohiko, Hoshino Ayuko, Ogura Shunichiro	4Q	Acquisition of basics of biochemistry, molecular biology and genome biology.
Graduate major in Architecture and Building Engineering	ARC.P442	Theories in Urban Analysis and Planning II	Osaragi Toshihiro, Tagashira Maki	4Q	Only for students of Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.E425	Evaluation and Design of Thermal Environment	Asawa Takashi	4Q	Only for students in Department of Architecture and Building Engineering
Graduate major in Civil Engineering	CVE.M401	Civil Engineering Analysis	Hirose Sohichi, Bui Quoc Tinh	3Q	Programming skills are required.
Graduate major in Civil Engineering	CVE.A402	Nonlinear Solid Mechanics	Wijeyewickrema Anil	4Q	Basic knowledge of solid mechanics is required.
Graduate major in Civil Engineering	CVE.M431	Probabilistic Concepts in Engineering Design	Sasaki Eiichi	4Q	
Graduate major in Civil Engineering	CVE.F432	Principles of Construction Management	Hasegawa Atsushi, Hiraiishi Kazuaki, Maeda Yasuyoshi, Koizumi Yukihiko, Takesue Naoki, Maki Kotaro	3~4Q	
Graduate major in Civil Engineering	CVE.G402	Environmental Statistics	Yoshimura Chihiro	4Q	
Graduate major in Civil Engineering	CVE.C402	Stability Problems in Geotechnical Engineering	Takahashi Akihiro, Kitazume Masaki, Takemura Jiro	3Q	Basic knowledge of soil mechanics is required.
Graduate major in Civil Engineering	CVE.C431	Physical Modeling in Geotechnics	Takemura Jiro, Takahashi Akihiro	3~4Q	Basic knowledge of civil engineering and geotechnical engineering is required.
Graduate major in Civil Engineering	CVE.D402	Transportation Network Analysis	Asakura Yasuo	3Q	
Graduate major in Civil Engineering	CVE.E431	Integrated modeling of reinforced concrete structure	Chijiwa Nobuhiro	3~4Q	
Graduate major in Civil Engineering	CVE.G403	Water Chemistry	Fuji Manabu	3Q	
Graduate major in Civil Engineering	CVE.D405	Transportation Science and Simulation	Seo Toru	4Q	
Graduate major in Global Engineering for Development, Environment and Society	GEG.S402	The economics and systems analysis of environment, resources and technology	Tokimatsu Koji	4Q	The number of the participants are limited and students of Major in Global Engineering for Development, Environment and Society (GEDES) are prioritized.
Graduate major in Global Engineering for Development, Environment and Society	GEG.P411	Project Evaluation for Sustainable Society	Hanaoka Shinya	3Q	If the number of registered students exceeds a certain number (40), undergraduate-level students cannot register.
Graduate major in Global Engineering for Development, Environment and Society	GEG.T414	Linear Wave Theory and Simulation	Takada Jun-Ichi	3Q	Student should be familiar with vector analysis and partial differential equations.
Graduate major in Global Engineering for Development, Environment and Society	GEG.S413	Science Media and Communication for Global Development, Environment and Society	Nohara Kayoko, Andrews Eden Mariquit, Salani Giorgio	3Q	Students need to communicate interactively by video, microphone, etc on online courses.
Graduate major in Social and Human Sciences	SHS.S444	Graduate Lecture in Science, Technology and Society F1B	Bektas Yakup	4Q	
Graduate major in Social and Human Sciences	SHS.M443	Graduate Lecture in Cognition, Mathematics and Information F1A	Yamamoto Hirofumi	3Q	The ability of the discussion in English is required.
Graduate major in Energy Science and Engineering	ENR.A405	Interdisciplinary Energy Materials Science 1	Matsuda Akifumi, Ihara Manabu, Mori Takehiko, Maeda Kazuhiko, Ueda Mitsutoshi, Shimizu Ryota	3Q	
Graduate major in Energy Science and Engineering	ENR.A406	Interdisciplinary Energy Materials Science 2	Matsumoto Hidetoshi, Ihara Manabu, Kimura Yoshitao, Inagi Shinsuke, Shimizu Ryota	4Q	
Graduate major in Energy Science and Engineering	ENR.A407	Energy system theory	Suekane Tetsuya, Yamada Akira, Obara Toru, Ihara Manabu, Kawabe Kenichi, Tokimatsu Koji	3Q	
Graduate major in Energy Science and Engineering	ENR.A408	Economy of energy system	Tokimatsu Koji, Hanaoka Shinya, Nishikizawa Shigeo, Kajikawa Yuya, Goto Mka, Eto Ryo	4Q	
Graduate major in Energy Science and Engineering	ENR.I410	Optical properties of solids	Koshihara Shinya, Okimoto Yoichi	4Q	The students are expected to have basic knowledge of thermodynamics and fluid mechanics.
Graduate major in Energy Science and Engineering	ENR.K450	Advanced course of combustion physics	Kosaka Hidenori, Tanahashi Mamoru, Shimura Masayasu	3Q	
Graduate major in Energy Science and Engineering	ENR.K440	Advanced course of radiation transfer	Hanamura Katsunori	3Q	
Graduate major in Energy Science and Engineering	ENR.J401	Advanced Metal Physics	Shi Ji, Nakamura Yoshio	3Q	
Graduate major in Energy Science and Engineering	ENR.J402	Physical Chemistry for High Temperature Processes –Thermodynamics–	Susa Masahiro, Kobayashi Yoshinao, Kawamura Kenichi, Hayashi Miyuki, Ueda Mitsutoshi	3Q	Students are required to have basic knowledge about the first, second and third law of thermodynamics.
Graduate major in Energy Science and Engineering	ENR.J408	Energy Conversion Ceramics Materials	Miyuchi Masahiro, Matsuda Akifumi, Yamaguchi Akira, Yasuda Kouichi, Matsushita Sachiko, Isobe Toshihiro, John David Baniecki	4Q	
Graduate major in Energy Science and Engineering	ENR.H411	Topics in Applied Electrochemistry	Kitamura Fusao, Waki Keiko, Hirayama Masaaki, Nakamura Jiro	4Q	
Graduate major in Energy Science and Engineering	ENR.H415	Introduction to Organic Electrochemistry	Inagi Shinsuke	3Q	
Graduate major in Energy Science and Engineering	ENR.H450	Environmentally-Friendly Polymer Chemistry	Satoh Kotaro	4Q	
Graduate major in Engineering Sciences and Design	ESD.D402	Materials Modeling and Simulation for Engineering Design	Inaba Kazuaki, Wijeyewickrema Anil	3Q	

Graduate major in Engineering Sciences and Design	ESD.D404	Design of Medical and Welfare Device	Hijkata Wataru	3Q	
Graduate major in Human Centered Science and Biomedical Engineering	HCB.M463	Introduction to Biomedical Instrumentation	Yagi Tohru	3Q	
Graduate major in Nuclear Engineering	NCL.D406	Experiments for Nuclear Fuel Debris and Back-end Fuel Cycle B	Takeshita Kenji, Tsukahara Takehiko, Takao Koichiro, Nakase Masahiko	4Q	Students must have enough knowledge of nuclear chemistry and chemical engineering. You need registration as a radiation worker (LANE Category A)
Graduate major in Nuclear Engineering	NCL.N409	Nuclear Energy Systems	Kikura Hiroshige, Kato Yukitaka, Sawada Tetsuo, Kondo Masatoshi, Harada Takuya	3Q	Student must have enough knowledge of nuclear reactor thermal-hydraulics and nuclear safety.
Graduate major in Nuclear Engineering	NCL.D402	Experiments for Materials related to Decommissioning B	Yoshida Katsumi, Hubarevich Hanna, Takasu Hiroki	4Q	Student must have enough knowledge of nuclear materials. You need registration as a radiation worker (LANE Category A)
Graduate major in Nuclear Engineering	NCL.C401	Nuclear Fuel Cycle Engineering	Takeshita Kenji, Tsukahara Takehiko, Takao Koichiro	3Q	Students must have enough knowledge of nuclear chemistry and chemical engineering.
Graduate major in Nuclear Engineering	NCL.C402	Radioactive Waste Management and Disposal Engineering	Tsukahara Takehiko, Takeshita Kenji, Takao Koichiro,	3Q	Students must have enough knowledge of nuclear chemistry and chemical engineering.
Graduate major in Nuclear Engineering	NCL.C403	Nuclear Chemical Engineering	Takeshita Kenji, Kato Yukitaka, Harada Takuya	4Q	Students must have enough knowledge of nuclear chemistry and chemical engineering.
Graduate major in Nuclear Engineering	NCL.B401	Radiation Biology and Medicine	Matsumoto Yoshihisa	3Q	
Graduate major in Nuclear Engineering	NCL.D407	Experiment on Thermohydraulic and Severe Accident Engineering	Kikura Hiroshige, Endo Gen, Sagara Hiroshi, Takahashi Hideharu, Kondo Masatoshi	4Q	Student must have enough knowledge of nuclear reactor thermal-hydraulics and nuclear safety.
Graduate major in Nuclear Engineering	NCL.N411	Innovative Nuclear Systems Design Project	Obara Toru, Nishiyama Jun	3~4Q	Student must have enough knowledge of nuclear physics, nuclear reactor theory, nuclear materials, nuclear reactor thermal-hydraulics, nuclear safety and nuclear energy systems.
Graduate major in Artificial Intelligence	ART.T462	Complex Networks	Murata Tsuyoshi	4Q	
Graduate major in Urban Design and Built Environment	UDE.D408	History of Cities and Urban Planning	Fujita Yasuhiro	4Q	
Graduate major in Urban Design and Built Environment	UDE.D409	Planning Theory	Sakano Tatsuro	3Q	
Graduate major in Urban Design and Built Environment	UDE.S435	Earthquake and Tsunami Disaster Reduction	Morikawa Hitoshi/Yamanaka Hiroaki	3Q	
Graduate major in Urban Design and Built Environment	UDE.D448	Architectural Awareness & Design	Nasu Satoshi	4Q	
Graduate major in Urban Design and Built Environment	UDE.D471	Principles of Public Systems Design	Sakano Tatsuro	4Q	
Graduate major in Urban Design and Built Environment	UDE.S406	Tensor Analysis for Building Structure	Motoyui Shoju	4Q	
Graduate major in Urban Design and Built Environment	UDE.P404	City/Transport Planning and the Environment	Muromachi Yasunori	3Q	Basics of Transport Planning, Urban Planning, and Traffic Engineering
Tokyo Institute of Technology	LAW.X411	Study on Japanese Companies and Industries I	Sato Yuriko, Saito Hirofumi, Takemura Jiro, Shi Qinzong	3Q	
Tokyo Institute of Technology	LAW.X417	Sustainable Engineering Technology	Takemura Jiro, Kobayashi Ego, Umemuro Hiroyuki, Tokimatsu Koji, Yoshimura Chihoro, Yagi Tohru, Ota Eri, Murakami Rie, Furuya Hidemine	4Q	
Tokyo Institute of Technology	LAW.X414	Technical Management for Sustainable Engineering	Kobayashi Yoshinao, Hanaoka Shinya	4Q	
Tokyo Institute of Technology	LAW.X418	Communication Skills in Japanese Industries I	Takemura Jiro, Morikawa Junko, Kuwata Shigeki, Hayashi Miyuki, Nakamura Takashi, Wakabayashi Hitoshi, Kitaguchi Yoshiaki, Sasaki Yoshizumi, Todoroki Hidekazu, Aoto Nahomi, Tagami Atsushi, Lee Boon Hon, Nakamura Shigen	3Q	
Tokyo Institute of Technology	LAW.X421	Global Leadership Training	Ota Eri	4Q	
Tokyo Institute of Technology	LAW.X427	Our Sustainable Energy Future: Role of Business and Technology	Ota Eri, Murakami Rie, Ling Frank Hiroshi	3Q	
Tokyo Institute of Technology	LAW.X429	Multicultural Collaboration and Leadership	Ota Eri, Murakami Rie, Nguyen Dung Minh	4Q	

-Japanese courses

Please check the following web site of Japanese courses.

<http://js.ila.titech.ac.jp/~web/japanese.html>

For those attending classes remotely from home countries:

If you are currently not in Japan, please check the availability of textbooks (click here to check the designated textbook for each class (<<http://js.ila.titech.ac.jp/~web/courselist.html>>)) beforehand.

If the textbooks are not available in your country, please choose and reserve classes from among AOS (Attend from overseas) classes

(<<http://js.ila.titech.ac.jp/~web/courselist.html>>), or the ones for which no textbook is specified.

Students who are in Japan or will be entering Japan can also take AOS classes.

We will not distribute any copies of textbooks which are commercially available.