

List of Graduate Courses Available to Undergraduate-level International Exchange Students <For 3Q, 4Q of the 2019–2020 Academic Year>

As of September 2019

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: September 26th–November 28th, 4Q: November 29th–February 7th**

Major / Course Category	No.	Course Name	Lecturer	Quarter	Eligibility criteria or prerequisite knowledge, etc.
Graduate major in Mathematics	MTH.B407	Advanced topics in Geometry C1	Endo Hisaaki	3Q	The knowledge of the geometry at finishing undergraduate 3rd year is required.
Graduate major in Mathematics	MTH.B408	Advanced topics in Geometry D1	Endo Hisaaki	4Q	The knowledge of the geometry at finishing undergraduate 3rd year is required.
Graduate major in Mathematics	MTH.C407	Advanced topics in Analysis C1	Tonegawa Yoshihiro	3Q	The knowledge of the geometry at finishing undergraduate 3rd year is required.
Graduate major in Mathematics	MTH.C408	Advanced topics in Analysis D1	Tonegawa Yoshihiro	4Q	The knowledge of the geometry at finishing undergraduate 3rd year is required.
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.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.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 Physics	PHY.C450	Quantum Theory of Electrons in Solids	Saito Susumu	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.P411	Basic Presentation in Physics	Shi Jie	3Q	Students need to satisfy the standard of TOEIC score (550 points) is required for the graduation from undergraduate course.
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	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.S440	Statistical Mechanics III	Nishimori Hidetoshi	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 Chemistry	CHM.A438	Current Chemistry IV	Gergely Juhasz	3~4Q	
Graduate major in Chemistry	CHM.B434	Advanced Course in Crystal Structure Science	Uekusa Hidehiro	4Q	
Graduate major in Earth and Planetary Sciences	EPS.A426	Advanced Earth and Space Sciences I	Ishikawa Akira, Ueno Yuichiro et al.	3Q	
Graduate major in Earth and Planetary Sciences	EPS.A427	Advanced Earth and Space Sciences J	Ida Shigeru, Hernlund John William	3Q	
Graduate major in Mechanical Engineering	MEC.C433	Solid Dynamics	Inoue Hirotsugu	3Q	Undergraduate level knowledge of Mechanics of Materials and Basics of Elasticity
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.E432	Properties of Solid Materials	Murakami Yoichi, Fushinobu Kazuyoshi	3Q	
Graduate major in Mechanical Engineering	MEC.E433	Advanced Thermal-Fluids Measurement	Kikura Hiroshige, Saito Takushi	4Q	
Graduate major in Mechanical Engineering	MEC.G432	Metallforming	Yoshino Masahiko, Ohtake Naoto	3Q	
Graduate major in Mechanical Engineering	MEC.G433	Joining	Sato Chiaki, Yamazaki Takahisa	4Q	

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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.J431	Ultra-precision Measurement	Yoshioka Hayato, Hatsuzawa Takeshi et al.	3Q	
Graduate major in Mechanical Engineering	MEC.M433	Space Systems Analysis A	Furuya Hiroshi	3Q	
Graduate major in Mechanical Engineering	MEC.M434	Space Robotics	Nakanishi Hiroki	4Q	
Graduate major in Mechanical Engineering	MEC.N432	Special Lecture in Mechanical Engineering M II	Undecided	3~4Q	
Graduate major in Mechanical Engineering	MEC.U434	Advanced Internal Combustion Engine Engineering and Future Power Train A	Kosaka Hidenori, Hanamura Katsunori et al.	3~4Q	
Graduate major in Mechanical Engineering	MEC.U444	Advanced Internal Combustion Engine Engineering and Future Power Train B	Kosaka Hidenori, Hanamura Katsunori et al.	3~4Q	
Graduate major in Mechanical Engineering	MEC.U447	Advanced Material Science and Engineering B	Ohtake Naoto	3~4Q	Basic knowledge of quantum mechanics and electronic properties of solids.
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.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.C401	System Identification and Estimation	Yamakita Masaki	3Q	Basic mathematical system modeling
Graduate major in Systems and Control Engineering	SCE.C452	Nonlinear and Adaptive Control	Hayakawa Tomohisa	3Q	
Graduate major in Systems and Control Engineering	SCE.C453	Network Control Systems	Hayakawa Tomohisa	4Q	Students must have successfully completed SCE.C.202, SCE.C.302, SCE.C.402, SCE.C.531, SCE.C.501, and SCE.C.502 or have equivalent knowledge.
Graduate major in Systems and Control Engineering	SCE.I432	Acoustic Measurement Engineering	Hachiya Hiroyuki	3Q	
Graduate major in Systems and Control Engineering	SCE.I454	Computer Vision	Okutomi Masatoshi	4Q	
Graduate major in Systems and Control Engineering	SCE.S402	Fluid Robotics	Tsukagoshi Hideyuki	3Q	
Graduate major in Electrical and Electronic Engineering	EEED.421	Imaging Materials	Iino Hiroaki	3Q	
Graduate major in Electrical and Electronic Engineering	EEE.D441	Information Storage Engineering	Nakagawa Shigeki, Takamura Yota et al.	4Q	
Graduate major in Electrical and Electronic Engineering	EEE.P411	Advanced Course of Power Electronics	Fujita Hideaki, Hagiwara Makoto	3Q	Undergraduate-level knowledge of power electronics is required.
Graduate major in Information and Communications Engineering	ICT.A413	Communications and Computer Engineering II	Nakahara Hiroki, Takagi Shigetaka et al.	3Q	Sufficient basic academic skills in information and communications
Graduate major in Information and Communications Engineering	ICT.A418	Human-Centric Information Systems II	Yamaguchi Masahiro, Koike Yasuharu et al.	4Q	Sufficient basic academic skills in information and communications
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.H420	Large Scale Computing Systems	Sugino Nobuhiko	4Q	Sufficient basic academic skills in computer architecture and procedural language (C language)
Graduate major in Information and Communications Engineering	ICT.H421	Medical Imaging Systems	Nakamura Kentaro, Tabaru Marie et al.	4Q	Acquisition of basics of Fourier transform and electrical circuits
Graduate major in Information and Communications Engineering	ICT.I415	VLSI System Design	Isshiki Tsuyoshi	3Q	Acquisition of basics of logic circuits, electrical circuits and integrated circuits
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.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 Materials Science and Engineering	MAT.M419-02	Microscopic characterization of solid materials	Chai Yaw Wang	4Q	Knowledge equivalent to that of third-year undergraduates at Tokyo Tech's metals courses
Graduate major in Materials Science and Engineering	MAT.M420	Metal Science on Development of Aircraft Engine Materials	Naka Shigehisa	3Q	Knowledge equivalent to that of third-year undergraduates at Tokyo Tech's metals courses
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	Itoh Mitsuru, Wakai Fumihiro et al.	4Q	Students must be familiar with Chapters 1-7 of Charles Kittel's "Introduction to Solid State Physics, 8th Edition."
Graduate major in Materials Science and Engineering	MAT.M403	Environmental Degradation of Materials	Nishikata Atsushi, Tada Eiji	4Q	

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Graduate major in Materials Science and Engineering	MAT.M407-01	Advanced Solid State Physics	Nakatsuji Kan, Gohda Yoshihiro	3Q	
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.P423	Advanced Course in Composite Materials	Shioya Masatoshi	3Q	
Graduate major in Materials Science and Engineering	MAT.P424	Advanced Course in Polymer Processing A	Kikutani Takeshi	3Q	Fundamental knowledge on polymer science is required.
Graduate major in Materials Science and Engineering	MAT.P425	Advanced Course in Polymer Processing B	Kikutani Takeshi	4Q	Fundamental knowledge on polymer science is required.
Graduate major in Materials Science and Engineering	MAT.P426	Thermal Properties of Materials	Morikawa Junko	4Q	
Graduate major in Materials Science and Engineering	MAT.P465	Advanced Course in Physical Properties of Organic Materials A	Kikutani Takeshi, Morikawa Junko et al.	3Q	
Graduate major in Materials Science and Engineering	MAT.P466	Advanced Course in Physical Properties of Organic Materials B	Kikutani Takeshi, Morikawa Junko et al.	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.C431	Chemical Engineering for Advanced Materials and Chemicals Processing II	Sekiguchi Hidetoshi, Okochi Mina et al.	3Q	Knowledge of fundamental chemical engineering is desirable.
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.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.C441	Transport Phenomena and Operation	Yoshikawa Shiro	4Q	
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.I417	Introduction to Chemical Engineering (Unit Operation)	Waki Keiko	3Q	
Graduate major in Chemical Science and Engineering	CAP.I435	Advanced Geochemistry	Yoshida Naohiro, Toyoda Sakae et al.	3Q	
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.I446	Nano-Surface Chemistry and Advanced Devices	Hara Masahiko, Sven Ingebrandt et al.	4Q	Fundamental knowledge of materials chemistry is desirable.
Graduate major in Mathematical and Computing Science	MCS.T402	Mathematical Optimization: Theory and Algorithms	Fukuda Mituhiro, Yamashita Makoto	3Q	
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	4Q	
Graduate major in Mathematical and Computing Science	MCS.T417	Topics in Algebra	Tsuchioka Shunsuke	4Q	
Graduate major in Computer Science	CSC.T431	Advanced System Software	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.T434	International PBL Course on Software Project Management	Defago Xavier, Masuda Satoshi	4Q	
Graduate major in Artificial Intelligence	ART.T462	Complex Networks	Murata Tsuyoshi	4Q	
Graduate major in Artificial Intelligence	ART.T463	Computer Graphics	Saito Suguru	4Q	Programming skill (java) is required.
Graduate major in Life Science and Technology	LST.A406	Molecular Developmental Biology and Evolution	Kume Shoen, Kawakami Atsushi et al.	3Q	When the number of registered students exceeds the capacity of the classroom, exchange students may not be accepted.
Graduate major in Life Science and Technology	LST.A407	Science of Metabolism	Hirasawa Takashi, Shiraki Nobuaki et al.	3Q	Undergraduate-level basic knowledge of biochemistry, molecular biology and cell biology.

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Graduate major in Life Science and Technology	LST.A408	Computational Biology	Sakurai Minoru, Itoh Takehiko et al.	3Q	When the number of registered students exceeds the capacity of the classroom, exchange students may not be accepted.
Graduate major in Life Science and Technology	LST.A409	Physical Biology of the Cell	Hayashi Nobuhiro, Murakami Satoshi et al.	4Q	Acquisition of basics of physical chemistry. When the number of registered students exceeds the capacity of the classroom, exchange students may not be accepted.
Graduate major in Life Science and Technology	LST.A410	Advanced Neuroscience	Ichinose Hiroshi, Suzuki Takashi et al.	4Q	Acquisition of basics of neuroscience. When the number of registered students exceeds the capacity of the classroom, exchange students may not be accepted.
Graduate major in Life Science and Technology	LST.B404	International Career Development Basics	Suzuki Takashi, Kobatake Eiry et al.	3~4Q	When the number of registered students exceeds the capacity of the classroom, exchange students may not be accepted.
Graduate major in Architecture and Building Engineering	ARC.D423	Architectural Design Studio III	Yasuda Koichi, Okuyama Shinichi et al.	4Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.D424	Theory of Architectural Space and Planning	Tsukamoto Yoshiharu,	3Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.D446	Theory of Architectural Design II	Okuyama Shinichi, Shiozaki Taishin	3~4Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.D447	Architectural Theory for Urban Space	Tsukamoto Yoshiharu	4Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.D462	Architectural Behaviorology2	Tsukamoto Yoshiharu, Yasuda Koichi et al.	3~4Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.E424	Design Theory of Architectural Visual Environment	Nakamura Yoshiki	3Q	
Graduate major in Architecture and Building Engineering	ARC.E425	Evaluation and Design of Thermal Environment	Asawa Takashi	4Q	
Graduate major in Architecture and Building Engineering	ARC.P442	Theories in Urban Analysis and Planning II	Osaragi Toshihiro	4Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Architecture and Building Engineering	ARC.S403	Advanced Course on Design of Prestressed Concrete Structure	Sakata Hiroyasu	3Q	International students accepted to the Department of Architecture and Building Engineering
Graduate major in Civil Engineering	CVE.A402	Nonlinear Solid Mechanics	Wjeyewickrema Anil	4Q	Basic knowledge of solid mechanics is required.
Graduate major in Civil Engineering	CVE.C402	Stability Problems in Geotechnical Engineering	Takahashi Akihiro, Kitazume Masaki et al.	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.F432	Principles of Construction Management	Hasegawa Atsushi, Matsukawa Keisuke et al.	3~4Q	
Graduate major in Civil Engineering	CVE.G402	Environmental Statistics	Yoshimura Chihiro	4Q	
Graduate major in Civil Engineering	CVE.G403	Water Chemistry	Fujii Manabu	3Q	
Graduate major in Civil Engineering	CVE.M401	Civil Engineering Analysis	Hirose Sohichi, Bui Tinh Quoc	3Q	Programming skills are required.
Graduate major in Civil Engineering	CVE.M431	Probabilistic Concepts in Engineering Design	Sasaki Eiichi	4Q	
Graduate major in Global Engineering for Development, Environment and Society	GEG.P411	Project Evaluation for Sustainable Society	Hanaoka Shinya	3Q	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.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 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 Social and Human Sciences	SHS.S444	Graduate Lecture in Science, Technology and Society F1B	Bektas Yakup	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.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.D472	Introduction to US Land Use Planning and Regulations	Jonathan Martin	3Q	
Graduate major in Urban Design and Built Environment	UDE.D473	Contextual Urban Design	Jonathan Martin	3Q	
Graduate major in Urban Design and Built Environment	UDE.P404	City/Transport Planning and the Environment	Muromachi Yasunori	3Q	

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Graduate major in Urban Design and Built Environment	UDE.S406	Tensor Analysis for Building Structure	Motoyui Shojiro	4Q	
Graduate major in Urban Design and Built Environment	UDE.S435	Earthquake and Tsunami Disaster Reduction	Morikawa Hitoshi	3Q	Check the schedule carefully.
Technology and Innovation Management	TIM.C412	Innovation System I	Miyazaki Kumiko	3Q	
Technology and Innovation Management	TIM.C413	Innovation System II	Miyazaki Kumiko	4Q	
Graduate major in Energy Science and Engineering	ENR.A405-01	Interdisciplinary Energy Materials Science 1	Nozaki Tomohiro, Okimoto Yoichi et al.	3Q	
Graduate major in Energy Science and Engineering	ENR.A405-02	Interdisciplinary Energy Materials Science 1	Nozaki Tomohiro, Kimura Yoshisato et al.	3Q	
Graduate major in Energy Science and Engineering	ENR.A406-01	Interdisciplinary Energy Materials Science 2	Matsumoto Hidetoshi, Ihara Manabu et al.	4Q	
Graduate major in Energy Science and Engineering	ENR.A406-02	Interdisciplinary Energy Materials Science 2	Matsumoto Hidetoshi, Ihara Manabu et al.	4Q	
Graduate major in Energy Science and Engineering	ENR.A407-01	Energy system theory	Yamada Akira, Suekane Tetsuya et al.	3Q	
Graduate major in Energy Science and Engineering	ENR.A407-02	Energy system theory	Yamada Akira, Suekane Tetsuya et al.	3Q	
Graduate major in Energy Science and Engineering	ENR.A408	Economy of energy system	Tokimatsu Koji, Hanaoka Shinya et al.	4Q	
Graduate major in Energy Science and Engineering	ENR.H411	Topics in Applied Electrochemistry	Kanno Ryoji, Kitamura Fusao et al.	4Q	
Graduate major in Energy Science and Engineering	ENR.H415	Introduction to Organic Electrochemistry	Tomita Ikuyoshi, Inagi Shinsuke	3Q	
Graduate major in Energy Science and Engineering	ENR.H450	Environmentally-Friendly Polymer Chemistry	Satoh Kotaro	4Q	
Graduate major in Energy Science and Engineering	ENR.I410	Optical properties of solids	Koshihara Shinya, Okimoto Yoichi	4Q	
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 et al.	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	Yasuda Kouichi, Matsushita Sachiko et al.	4Q	
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.K450	Advanced course of combustion physics	Kosaka Hidenori, Tanahashi Mamoru et al.	3Q	The students are expected to have basic knowledge of thermodynamics and fluid mechanics.
Graduate major in Engineering Sciences and Design	ESD.D402	Materials Modeling and Simulation for Engineering Design	Inaba Kazuaki, Wijeyewickrema Anil	4Q	
Graduate major in Engineering Sciences and Design	ESD.D404	Design of Medical and Welfare Device	Hjikata 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.B401	Radiation Biology and Medicine	Matsumoto Yoshihisa	3Q	
Graduate major in Nuclear Engineering	NCL.C401	Nuclear Fuel Cycle Engineering	Takeshita Kenji, Tsukahara Takehiko et al.	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 et al.	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	4Q	
Graduate major in Nuclear Engineering	NCL.D402	Experiments for Materials related to Decommissioning B	Yoshida Katsumi, Hubarevich Hanna et al.	4Q	Student must have enough knowledge of nuclear materials. You need registration as a radiation worker (Category A).
Graduate major in Nuclear Engineering	NCL.D406	Experiments for Nuclear Fuel Debris and Back-end Fuel Cycle B	Takeshita Kenji, Tsukahara Takehiko et al.	4Q	Students must have enough knowledge of nuclear chemistry and chemical engineering. You need registration as a radiation worker (Category A).
Graduate major in Nuclear Engineering	NCL.D407	Experiment on Thermalhydraulic and Severe Accident Engineering	Kikura Hiroshige, Endo Gen et al.	4Q	Student must have enough knowledge of nuclear reactor thermal-hydraulics, nuclear safety and nuclear energy systems.
Graduate major in Nuclear Engineering	NCL.N409	Nuclear Energy Systems	Kikura Hiroshige, Kato Yukitaka et al.	3Q	
Graduate major in Nuclear Engineering	NCL.N411	Innovative Nuclear Systems Design Project	Obara Toru	3Q	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 Nuclear Engineering	NCL.O401	Nuclear Non-proliferation and Security	Sagara Hiroshi, Hayashizaki Noriyosu et al.	3Q	

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English Language Courses	LAE.E463-01	Academic Writing in English 15	De Ferranti Hugh	3Q	Graduate students will receive priority if enrollment is limited. Whether or not the student has sufficient academic ability to enroll shall be determined by the instructor.
English Language Courses	LAE.E463-02	Academic Writing in English 15	Anno Mariko	3Q	Graduate students will receive priority if enrollment is limited. Whether or not the student has sufficient academic ability to enroll shall be determined by the instructor.
English Language Courses	LAE.E463-03	Academic Writing in English 15	David Pinkney	3Q	Graduate students will receive priority if enrollment is limited. Whether or not the student has sufficient academic ability to enroll shall be determined by the instructor.
English Language Courses	LAE.E464-01	Academic Writing in English 16	De Ferranti Hugh	4Q	Graduate students will receive priority if enrollment is limited. Whether or not the student has sufficient academic ability to enroll shall be determined by the instructor.
English Language Courses	LAE.E464-02	Academic Writing in English 16	Anno Mariko	4Q	Graduate students will receive priority if enrollment is limited. Whether or not the student has sufficient academic ability to enroll shall be determined by the instructor.
English Language Courses	LAE.E464-03	Academic Writing in English 16	David Pinkney	4Q	Graduate students will receive priority if enrollment is limited. Whether or not the student has sufficient academic ability to enroll shall be determined by the instructor.
Breadth Courses	LAW.X411	Study on Japanese Companies and Industries I	Sato Yuriko, Saito Hirofumi et al.	3Q	Due to the capacity of a bus used in study tours, number of students is limited to 47. YSEP students and master course regular students have priority in participation.
Breadth Courses	LAW.X414	Technical Management for Sustainable Engineering	Kobayashi Yoshinao, Hanaoka Shinya	3Q	
Breadth Courses	LAW.X417	Sustainable Engineering Technology	Takemura Jiro, Kobayashi Equo et al.	4Q	
Breadth Courses	LAW.X418	Communication Skills in Japanese Industries I	Takemura Jiro, Morikawa Junko et al.	3Q	
Breadth Courses	LAW.X420	Japan Studies I	Saito Hirofumi, Saijo Miki et al.	4Q	Only participants of Tokyo Tech Winter Program can take this course.
Breadth Courses	LAW.X423	Technology and Product in Context	Nohara Kayoko	4Q	
Breadth Courses	LAW.X424	Tokyo Tech Winter Program Research Exchange Project	Academic Supervisor	4Q	Only participants of Tokyo Tech Winter Program can take this course.
Breadth Courses	LAW.X427	Our Sustainable Energy Future: Role of Business and Technology	Ota Eri, Murakami Rie et al.	3Q	