

Course List for Undergraduate program (Courses conducted in English)

as of 13 February 2024

*Including courses that can be conducted in English upon request.

Course Number	Course Name	Credits	standard registration year	Term	Meeting Days, Period etc.	Classroom	Instructor	Course Overview	Remarks	Credited Auditors	Application conditions	Subjects Areas or Course offering Schools/Colleges
9901061	Museum Exhibition I	1.0	2, 3	SprAB	Fri5		MCLEOD Roderick	美術館における展示の歴史、展示メディア、展示による教育活動、展示の諸形態などについて、理論的および実践的な知識や技術を獲得し、美術館の作品展示機能についての基礎的な能力を養う。	Lecture is conducted in English. Work Experience Faculty. Online(Asynchronous)			Museum related subjects
AB90A31	Introduction to Phonetics	1.0	1	SprAB	Thu4		Hwang Hyun Kyung	This course provides an introduction to the study of human speech sounds. Various aspects of speech production and perception will be discussed, involving articulatory apparatus, phonetic transcription, and basic acoustics of speech.	Lecture is conducted in English. Online(Synchronous)			College of Humanities
AB90A51	Introduction to Phonetics-b	1.0	1	FallAB	Thu4		Hwang Hyun Kyung	This course focuses on the acoustic nature of speech, with special attention to the source-filter theory and the relation between airflow and turbulence.	Lecture is conducted in English. Online(Synchronous)			College of Humanities
AB90A61	Introduction to Phonetics-c	1.0	2 - 4	FallC	Intensive		Hwang Hyun Kyung	Beyond segments, this course covers suprasegmentals of speech sounds and their acoustic correlates. Perceptual aspects of prosody will be also addressed.	Lecture is conducted in English. Online(Synchronous)			College of Humanities
AB91A11	Experimental Phonetics	1.0	2, 3	SprAB	Thu5	1C206	Hwang Hyun Kyung	This course provides training in designing and running a basic phonetic experiment, analyzing quantitative speech data and interpreting the results.	Lecture is conducted in English. face-to-face			College of Humanities
AB91A21	Experimental Linguistics	1.0	2, 3	FallAB	Thu5	1C206	Hwang Hyun Kyung	This course introduces a range of experimental research across different domains in linguistics, and provide the basics of experimental approaches. Students are expected to be able to make empirical observations for theoretical generalizations.	Lecture is conducted in English. face-to-face			College of Humanities
AB91A71	Experimental Linguistics and Phonetics	1.0	2, 3	FallC	Intensive		Hwang Hyun Kyung	This course provides advanced analytic skills including Praat scripting and statistical analyses. Each student will carry out a research project in experimental phonetics/linguistics.	Lecture is conducted in English. face-to-face			College of Humanities
AC50F61	Introduction to One-Planet Relational Studies in Literature and Culture	1.0	1, 2	SprAB	Tue3	2B207	Heselhaus, Herrad	This class introduces the basic concepts and methods of "One-Planet Relational Studies": stewardship and mindfulness, critical thinking and problem solution, agency and discourse, relational and planetary approaches to our common world.	Lecture is conducted in English. face-to-face(partially online)			College of Comparative Culture
AC61A31	Anglo-American Studies IV	1.0	3, 4	SprAB	Wed2	2D306	TAI TSUNG-HAN	This seminar pays exclusive attention to Virginia Woolf's 1925 novel, Mrs Dalloway.	Lecture is conducted in English. face-to-face AC61121の単位取得者は履修できない。シラバスは英語版を見てください			College of Comparative Culture
AC61A41	Anglo-American Studies V	1.0	3, 4	FallAB	Wed2	2D306	TAI TSUNG-HAN	This course focuses on Oscar Wilde's Lady Windermere's Fan and Arthur Miller's The Crucible.	Lecture is conducted in English. face-to-face AC61141の単位取得者は履修できない。シラバスは英語版を見てください。			College of Comparative Culture
AC61B61	Gender Studies: Special Topic	1.0	3, 4	SprAB	Thu1	2B206	TAI TSUNG-HAN	This class explores the rich representations of women from classical civilizations to the twenty-first century and considers critical issues surrounding gender and representation.	Lecture is conducted in English. face-to-face ジェンダー研究特講(AC61221)ないしMedia and Gender (BE22141)の単位取得者は履修できない。シラバスは英語版を見てください。			College of Comparative Culture
AC61C02	Seminar in Anglo-American Studies I	1.0	3, 4	FallAB	Thu2	2B206	TAI TSUNG-HAN	This course introduces students to a selection of English and American poems and various interpretative approaches to analysing their significance.	Lecture is conducted in English. face-to-face AC61042の単位取得者は履修できない。シラバスは英語版を見てください。			College of Comparative Culture
AC63J11	One-Planet Relational Studies in Literature and Culture (lecture) II	1.0	2 - 4	FallAB	Mon5	2B206	Heselhaus, Herrad	Advanced lecture in "One-Planet Relational Studies": case study and overview. (Key words: stewardship and mindfulness, critical thinking and problem solution, agency and discourse, relational and planetary approaches.)	Open in even number years. Lecture is conducted in English. face-to-face			College of Comparative Culture
AC63K22	One-Planet Relational Studies in Literature and Culture (seminar) III	1.0	2 - 4	SprAB	Tue2	2B207	Heselhaus, Herrad	This class focuses on changing historical conceptualizations and discourses in global issues and crises.	Open in even number years. Lecture is conducted in English. face-to-face(partially online)			College of Comparative Culture
AC63K32	One-Planet Relational Studies in Literature and Culture (seminar) IV	1.0	2 - 4	FallAB	Tue2	2B206	Heselhaus, Herrad	This class discusses practical and theoretical issues of "One-Planet Relational Studies".	Open in even number years. Lecture is conducted in English. face-to-face			College of Comparative Culture
BB11881	Public Policy	2.0	2 - 4	SprAB	Thu, 5	1C403	Urano Edson Ioshiaqui	The objective of this course is to provide students with the basic concepts of public policies to enable them to understand, analyze and discuss the various public policies that affect our lives on a daily basis, by focusing mainly in the field of social policies, such as health care systems, income redistribution and labour policies.	Limited to 35 students. Open in even number years. Identical to BC11461 and BE22051. Lecture is conducted in English. G-course. face-to-face	△	It depends on decision of the class instructor	College of Social Sciences
BB28771	European Legal History	1.0	3, 4	FallC	Wed, 6 by appointment	1C305	Wataru Miyasaka	This course provides students with introductory overview of European Legal History. This year I would like to focus on the ancient Roman Law, which is the basis of legal systems not only in European continent countries, but also in many countries all over the world influenced from the former countries.	The class will be held in 7th period as well. Students who have earned credits of BB21581 or BB28761 are not permitted to take this class. Open in even number years. Identical to BE22491. Lecture is conducted in English. face-to-face			College of Social Sciences
BB41401	Contemporary Issues in Developing Countries	2.0	2 - 4	FallAB	Fri, 4, 5	3K102	Nakano Yuko	The goal of this course is to understand contemporary and important economic and social issues in developing countries. We also analyze statistical data related to the topics.	Identical to BC12121 and BE22871. Lecture is conducted in English. face-to-face			College of Social Sciences
BB41421	Development Economics	2.0	2 - 4	SprAB	Wed, 4, 5	1C305	Minowa Mari	This course is an introduction to development economics, covering both theoretical and empirical research related to development. The course will cover many of the key topics in development: poverty and inequality, industrialization, rural sector development, human capital, governance and institution, among others.	Identical to BC12731 and BE22261. Lecture is conducted in English. face-to-face(partially online)			College of Social Sciences
BB41541	Economic History	2.0	2 - 4	FallAB	Mon, 3, 4	1C405	Takahashi Hidena0	The purpose of this lecture is to examine both the basic discussion of the history of economic development in Europe and the development of the Japanese economy from the 19th century to the present. Please acquire the attitude of examining contemporary characteristics from a historical perspective.	This class will be lectured in English. Identical to BE22241. Lecture is conducted in English. face-to-face			College of Social Sciences
BB41561	Mathematical Economics	2.0	1 - 3	SprAB	Tue, 1, 2		Ikefuji Masako	This course introduces students to the most fundamental analytical tools of mathematics for economics. It provides the necessary skills and training to use mathematical approach in economic analysis. The goal of this course is to give the students skills to apply the mathematical methods to solution of economics problems.	Identical to BB41561 and BC16011. Lectures are conducted in English. Online(Asynchronous) Identical to BC16011 and BE22851. Lecture is conducted in English. Online(Asynchronous)	△	It depends on decision of the class instructor	College of Social Sciences
BC11121	International Politics	2.0	2 - 4	FallAB	Tue, 5, 6	3A202	Ohtomo Takafumi	This course examines various theories and cases to understand the dynamics of international politics.	Identical to BE22071. Lecture is conducted in English. face-to-face			College of International Studies

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BC11351	Globalization and Development	2.0	2 - 4	SprAB	Fri5, 6	10310	Quimpo Nathan Gilbert	This course examines the politics of development in the era of globalization, exploring major issues and problems being encountered and confronted by the developing countries in the contemporary period. The aims of the course are: - To broaden students' knowledge of major development issues and the impact of globalization on developing countries. - To provide students with a good introduction to globalization theory and to the politics of development.	Identical to BE22471. Lecture is conducted in English. G-course, face-to-face	△	It depends on decision of the class instructor	College of International Studies
BC11461	Public Policy	2.0	2 - 4	SprAB	Thu4, 5	10403	Urano Edson Ioshtaqai	The objective of this course is to provide students with the basic concepts of public policies to enable them to understand, analyze and discuss the various public policies that affect our lives on a daily basis, by focusing mainly in the field of social policies, such as health care systems, income redistribution and labour policies.	Limited to 35 students. Open in even number years. Identical to BB11881 and BE22051. Lecture is conducted in English. G-course, face-to-face	△	It depends on decision of the class instructor	College of International Studies
BC11511	Linguistic Anthropology	2.0	2 - 4	SprAB	Tue1, 2	3A304	Ide Risako	An introduction to linguistic anthropology, this course explores the relationship between language and culture, especially on how language reflects culture and how culture creates language. Through the lectures, required readings, group discussions, and student projects, we will learn the roles and functions of language in creating universal as well as cultural-specific worldviews.	First period only in Room 3A403 Identical to BE22501. Lecture is conducted in English, face-to-face (partially online) (former Anthropological Linguistics)			College of International Studies
BC11881	Japanese Economy	2.0	2 - 4	FallAB	Mon5, 6	3A203	Kurokawa Yoshinori	The main purpose of this course is to understand basic historical facts about the Japanese Economy. We analyze those facts both empirically and theoretically and relate most Japanese issues to those in the U.S. The goal of this course for Japanese students is to explain to foreign people about the Japanese economy in English, and that for international students is to be more interested in Japan. As a prerequisite, this course requires BC51061 Introductory Microeconomics and BC51071 International Economics, or equivalent.	Identical to BE22221. Lecture is conducted in English, face-to-face	△	Depends on if there is a margin for the number of students or classrooms	College of International Studies
BC11961	Japan and the World	2.0	2 - 4	FallAB	Mon3, 4	3A403	Pan Liang	This course focuses on the history of Japan's domestic politics and foreign relations from the end of the Second World War till the end of 1970s.	Open in even number years. Identical to BE22021. Lecture is conducted in English.			College of International Studies
BC12061	Econometrics	2.0	2 - 4	SprAB	Tue1, 2	3A305	YU ZHENGFEI	This course is an introduction to econometrics. We will begin with the linear regression model and its estimation and inference. Then we will cover linear models with endogeneity, linear panel models, limited dependent variables, and models used in program evaluations. This course prerequires Introductory Statistics.	Identical to BE22231. Lecture is conducted in English, face-to-face			College of International Studies
BC12121	Contemporary Issues in Developing Countries	2.0	2 - 4	FallAB	Fri4, 5	3K102	Nakano Yuko	The goal of this course is to understand contemporary and important economic and social issues in developing countries. We also analyze statistical data related to the topics.	Identical to BB41401 and BE22871. Lecture is conducted in English, face-to-face			College of International Studies
BC12221	Social Development	2.0	2 - 4	FallAB	Wed1, 2	3A312	Matsumura Midori	People's well-being cannot be achieved by economic growth alone, and the important role of social development has become widely recognised in international development practice. This course is offered for students firstly to increase understandings of why and how social development became a main stream of development by learning historical background and development theory. Secondly, we focus on some key concept and practice including human development, capability approach, participatory approach, and social capital. In the latter half of the course, we learn social development in relation to important development topics namely, poverty, human capital, labour and employment, micro finance, social protection, and human rights and human security. With some examples of on-going development programmes, students will discuss significance and applications of social development in practical field, and how we can improve development programmes towards sustainable development.	Open in even number years. Identical to BE22451. Lecture is conducted in English, face-to-face Course in 2022. Biennial Course (offered in odd years)			College of International Studies
BC12291	Social Anthropology	2.0	2 - 4	FallC	Intensive	3B302	Yamada Toru	In this course, you will learn the basic concepts and ideas of anthropology. Anthropology involves the systematic, comparative study of groups of people from all over the world and the knowledge those groups have that defines their cultures. We will draw on what we learn about other cultures to learn something about our own culture(s) and about ourselves.	Lecture is conducted in English, face-to-face (partially online) 原則対面実施だが、オンライン実施の日程もあり。授業実施についてはmanabaにて連絡			College of International Studies
BC12731	Development Economics	2.0	2 - 4	SprAB	Wed4, 5	10305	Minowa Mari	This course is an introduction to development economics, covering both theoretical and empirical research related to development. The course will cover many of the key topics in development: poverty and inequality, industrialization, rural sector development, human capital, governance and institution, among others.	Identical to BB41421 and BE22261. Lecture is conducted in English, face-to-face (partially online)			College of International Studies
BC12921	Health Economics	2.0	2 - 4	SprAB	Thu5, 6	10403	Moges Abu Girma	Health Economics is an applied economics course that analyzes issues in health, medical care and health finance. The demand for health and medical care services and the economic behavior of health service providers and the operation of health insurance markets are analyzed with economic tools of analysis and perspectives. The role of the government sector in the provision, regulation and financing of health care services are addressed within the context of health sector policies both in developed and developing countries.	Identical to BE22861. Lecture is conducted in English, face-to-face	△	It depends on decision of the class instructor	College of International Studies

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BC12951	Introduction to Geographic Information Systems	2.0	2 - 4	Fall/AB	Thu3.4	3A305	RAMDANI Fatwa	This course provides basic understanding of the fundamental concepts, principles, functions, and applications of Geographic Information Systems (GIS) in the domain of social science. A special focus of the course will be to illustrate the utility of GIS in applied studies such as data acquiring, inputting, storing, managing, analyzing, and mapping geospatial data. We will cover widely used database such as Landsat-8 and Sentinel-2, nighttime imagery, global impervious surface area, and world land cover. We will learn using free and open-source GIS software like QGIS and GeoDa for case-based focus on real-world applications. There is no prerequisites course to take this course, however basic understanding of statistics is an advantage. This course will be conducted in English.	Lecture is conducted in English. face-to-face			College of International Studies
BC16011	Mathematical Economics	2.0	2 - 4	Spr/AB	Tue1.2		Ikefuji Masako	This course introduces students to the most fundamental analytical tools of mathematics for economics. It provides the necessary skills and training to use mathematical approach in economic analysis. The goal of this course is to give the students skills to apply the mathematical methods to solution of economics problems.	Identical to BB41561 and BC16011. Lectures are conducted in English. Online (Asynchronous) Identical to BB41561 and BE22851. Lecture is conducted in English. Online (Asynchronous)	△	It depends on decision of the class instructor	College of International Studies
BC16021	History of Economic Thought	2.0	2 - 4	Fall/AB	Thu5.6	10403	Moges Abu Girma	The course is about the history, philosophy and evolution of economic ideas and thoughts. We review critically the different schools of economic thoughts from the classical to the modern schools to provide students with a comprehensive understanding of the origin, evolution, arguments, and philosophy of economics and the economists behind such powerful ideas.	Identical to BE22821. Lecture is conducted in English. face-to-face	△	It depends on decision of the class instructor	College of International Studies
BC16311	Politics and International Relations in South Asia	2.0	2 - 4	Spr/AB	Fri1.2	3A212	CHOTANI MAI VINDU	Politics and International Relations in South Asia is designed to introduce students to the history, politics and international relations of South Asia. The course pays the greatest attention to the region's largest country, India, but will also incorporate the experiences of Pakistan, Sri Lanka, Bangladesh, and Nepal in substantial measure.	Open in even number years. Lecture is conducted in English. face-to-face No background in South Asia is necessary to take this course, but previous participation in IR foundation courses is recommended.			College of International Studies
BC51071	International Economics	2.0	1	Spr/AB	Wed3.4	3A202	Kurokawa Yoshinori	This course will introduce students to basic international economic theories and their applications to real world data mainly about Japan's international trade and finance. I will emphasize the usefulness of basic international economic theories in understanding international economic issues. This course does NOT require BC51061 Introductory Microeconomics or BC51081 Intro-Intermediate Macroeconomics as a prerequisite. In class, I will explain all necessary background to understand this course.	Limited to students in the School of Social and International Studies. Identical to BE21201. Lecture is conducted in English. face-to-face	△	学類の基礎科目であるので受講者が多すぎる時には受講を制限することがある	College of International Studies
BC51081	Intro-Intermediate Macroeconomics	2.0	2	Fall/AB	Thu1.2	3B202	Naito Hisahiro	This course covers the basic concepts in macroeconomics. Topics include the IS-LM model, aggregate demand, aggregate supply and the Phillips curve, monetary and fiscal policy, rational expectations, real business cycle models, micro foundations, and long-run economic growth.	Identical to BE21231. Lecture is conducted in English. face-to-face Only those who are able to participate in face-to-face classes are eligible.	△	学類の基礎科目であるので受講者が多すぎる時には受講を制限することがある	College of International Studies
BC51161	Media Politics	2.0	1 - 3	Fall/AB	Wed3.4	3A308	Kawasaki Leslie Tkach	From "traditional" media, such as newspapers and television, to new media formats including websites, blogs and social media channels, in this course, students will examine the intersection between media and politics from historical and theoretical perspectives. Special emphasis is placed on the use of the internet and "new media" by political actors for the purpose of effecting political outcomes.	Identical to BE21241. Lecture is conducted in English. face-to-face	△	学類の基礎科目であるので受講者が多すぎる時には受講を制限することがある	College of International Studies
BC51181	Statistics	2.0	1 - 3	Fall/AB	Tue1.2	3A409	YU ZHENGFEI	This course is a formal introduction to Statistics. No prior knowledge of probability and statistics is required as all concepts will be developed from the ground up. We will cover a range of topics including descriptive statistics, basics of probability, random variables, distribution and density functions, sampling distributions, point estimation, confidence intervals, and hypothesis testing. If time allows, a preview of the regression analysis will be provided. The details of regression analysis will be covered in Introductory Econometrics, which is a continuation of this course.	2016年度までのBC12031「統計科学」の単位を取得した者は履修不可。 Identical to BE22321. Lecture is conducted in English. face-to-face			College of International Studies
BC51191	Data Science for Social Sciences	2.0	1. 2	Spr/AB	Wed1.2	3A312	RAMDANI Fatwa	This course is Data Science for Social Sciences. This course will provide an understanding of the fundamental principles and applications of Data Science. A special focus of the course will be to illustrate the utility of Data Science in Social Science studies. Basic techniques for data obtaining, wrangling, curating, managing, processing, exploring, questioning, analyzing, and communicating the result will be introduced. Ethical and reproducibility issues will also be discussed.	Lecture is conducted in English. face-to-face			College of International Studies
BE21131	Introduction to Programming	2.0	1. 2	Spr/AB	Tue1.2	10206	Simona Vasiache	This course is focused on helping students acquire fundamental programming notions. Some of the topics that will be covered include starting programming from "pen&paper", pseudocode, algorithms, data types, basic control structures etc.	Lecture is conducted in English. G-course. face-to-face The number of students is limited to 30.	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21201	International Economics	2.0	2	Spr/AB	Wed3.4	3A202	Kurokawa Yoshinori	This course will introduce students to basic international economic theories and their applications to real world data mainly about Japan's international trade and finance. I will emphasize the usefulness of basic international economic theories in understanding international economic issues. This course does NOT require BC51061 Introductory Microeconomics or BC51081 Intro-Intermediate Macroeconomics as a prerequisite. In class, I will explain all necessary background to understand this course.	Limited to students in the School of Social and International Studies. Identical to BC51071. Lecture is conducted in English. face-to-face	△	学類の基礎科目であるので受講者が多すぎる時には受講を制限することがある	Undergraduate Program of International Social Studies
BE21231	Intro-Intermediate Macroeconomics	2.0	2	Fall/AB	Thu1.2	3B202	Naito Hisahiro	This course covers the basic concepts in macroeconomics. Topics include the IS-LM model, aggregate demand, aggregate supply and the Phillips curve, monetary and fiscal policy, rational expectations, real business cycle models, micro foundations, and long-run economic growth.	Identical to BC51081. Lecture is conducted in English. face-to-face Only those who are able to participate in face-to-face classes are eligible.	△	学類の基礎科目であるので受講者が多すぎる時には受講を制限することがある	Undergraduate Program of International Social Studies

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BE21241	Media Politics	2.0	1 - 3	FallAB	Wed3, 4	3A308	Kawasaki Leslie Tkach	From "traditional" media, such as newspapers and television, to new media formats including websites, blogs and social media channels, in this course, students will examine the intersection between media and politics from historical and theoretical perspectives. Special emphasis is placed on the use of the internet and "new media" by political actors for the purpose of effecting political outcomes.	Identical to BC51161. Lecture is conducted in English. face-to-face	△	学類の基礎科目であるので受講者が多すぎる場合には受講を制限することがある	Undergraduate Program of International Social Studies
BE21371	Introduction to Law	2.0	1, 2	SprAB SprC	Fri3 Wed3, 4	10406	Wataru Miyasaka, AKIYAMA Hajime	This course aims to make students get comprehensive introduction to Jurisprudence or legal studies. It addresses the character and contents of each field in Jurisprudence through practical and case examples.	The number of students is limited to 25. Lecture is conducted in English. face-to-face	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21391	Introduction to Sociology	2.0	1, 2	FallAB	Thu5, 6	10406	Urano Edson Ioshiaqui	This course aims to introduce students to basic concepts of Sociology, as well as key authors. It will discuss topics of paramount importance for the understanding of contemporary society, such as globalization, international migration, diversity, family and social inequality.	Bruce, Steve (2018) Sociology: A Very Short Introduction, Oxford University Press. Giddens, A. and Sutton, P.W. (2017) Sociology 8th Edition. Polity. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE21511	Academic Discussion Seminar	2.0	1, 2	FallAB	Thu3, 4	3B302	Simona Vasilache	The goal of this course is to engage students in active discussions on various contemporary topics, ranging from politics, economics, science to culture, entertainment etc. The students will be encouraged to express and defend their opinions openly and actively, as well as propose issues to be debated.	Lecture is conducted in English. G-course. face-to-face. interdepartmental course The number of students is limited to 30. Students who received the credits from Academic Discussion Seminar II in AY2018 and earlier cannot register.	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21871	Monetary Economics	2.0	3, 4	FallAB	Tue5, 6	10403	Moges Abu Girma	This course deals with the monetary theory and policy in the context of modern economies. It addresses the role and definition of money in the economy, the microeconomic and macroeconomic aspects of money, the demand for money, the supply of money and interest rates, monetary policy making and instruments of monetary policy, and central banking at theoretical and practical levels. The course equips students with the skills to understand the operation of modern economies and the main monetary aggregates of an economy over time and across countries and its implications on economic welfare indicators.	Reading materials are uploaded on manaba system. Lecture is conducted in English. G-course. face-to-face			Undergraduate Program of International Social Studies
BE22021	Japan and the World	2.0	2 - 4	FallAB	Mon3, 4	3A403	Pan Liang	This course focuses on the history of Japan's domestic politics and foreign relations from the end of the Second World War till the end of 1970s.	Open in even number years. Identical to BC11961. Lecture is conducted in English.			Undergraduate Program of International Social Studies
BE22051	Public Policy	2.0	2 - 4	SprAB	Thu4, 5	10403	Urano Edson Ioshiaqui	The objective of this course is to provide students with the basic concepts of public policies to enable them to understand, analyze and discuss the various public policies that affect our lives on a daily basis, by focusing mainly in the field of social policies, such as health care systems, income redistribution and labour policies.	Limited to 35 students. Open in even number years. Identical to BB11881 and BC11461. Lecture is conducted in English. G-course. face-to-face	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22071	International Politics	2.0	2 - 4	FallAB	Tue5, 6	3A202	Ohtomo Takafumi	This course examines various theories and cases to understand the dynamics of international politics.	Identical to BC11121. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE22161	Comparative Law I: Legal Traditions and Cultures	2.0	2 - 4	FallAB	Wed1, 2	1B208	Ortolani Andrea	This course provides an overview of the world's major legal traditions. The lessons will present the birth and evolution of the civil law, common law, Islamic law and of other traditions, according to the interest of the participants.	This course is open to all students. A background in law is useful but not required. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE22171	Comparative Law II: History and Methods	2.0	3, 4	SprAB	Wed1, 2	Joint Use Facility Bld. A Room 101	Ortolani Andrea	This course focuses on the development and on modern methodological issues of comparative law. The first lessons present the origins and the history of comparative law. The second part provides an overview of several methodological issues and of comparative methods in law.	This course is recommended to students who attended Comparative Law I: Legal Traditions and Cultures. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE22191	Japanese Law II	2.0	3, 4	SprAB	Mon3, 4	1B208	Ortolani Andrea	This course focuses on the Supreme Court of Japan. The first lessons present its origin, structure and functions. The second part of the course provides an overview of the most important cases decided by the Supreme Court of Japan.	Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE22221	Japanese Economy	2.0	2 - 4	FallAB	Mon5, 6	3A203	Kurokawa Yoshinori	The main purpose of this course is to understand basic historical facts about the Japanese Economy. We analyze those facts both empirically and theoretically and relate most Japanese issues to those in the U.S. The goal of this course for Japanese students is to explain to foreign people about the Japanese economy in English, and that for international students is to be more interested in Japan. As a prerequisite, this course requires BC51061 Introductory Microeconomics and BC51071 Introductory Economics, or equivalent.	Identical to BC11881. Lecture is conducted in English. face-to-face	△	Depends on if there is a margin for the number of students or classrooms	Undergraduate Program of International Social Studies
BE22231	Econometrics	2.0	2 - 4	SprAB	Tue1, 2	3A305	YU ZHENGFEI	This course is an introduction to econometrics. We will begin with the linear regression model and its estimation and inference. Then we will cover linear models with endogeneity, linear panel models, limited dependent variables, and models used in program evaluations. This course prerequires Introductory Statistics.	Identical to BC12061. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE22241	Economic History	2.0	2 - 4	FallAB	Mon3, 4	10405	Takahashi Hidenao	The purpose of this lecture is to examine both the basic discussion of the history of economic development in Europe and the development of the Japanese economy from the 19th century to the present. Please acquire the attitude of examining contemporary characteristics from a historical perspective.	This class will be lectured in English. Identical to BB41541. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
BE22261	Development Economics	2.0	2 - 4	SprAB	Wed4, 5	10305	Minowa Mari	This course is an introduction to development economics, covering both theoretical and empirical research related to development. The course will cover many of the key topics in development: poverty and inequality, industrialization, rural sector development, human capital, governance and institution, among others.	Identical to BB41421 and BC12731. Lecture is conducted in English. face-to-face (partially online)			Undergraduate Program of International Social Studies

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BE22321	Statistics	2.0	2	Fall/AB	Tue1,2	3A409	YU ZHENGFEI	This course is a formal introduction to Statistics. No prior knowledge of probability and statistics is required as all concepts will be developed from the ground up. We will cover a range of topics including descriptive statistics, basics of probability, random variables, distribution and density functions, sampling distributions, point estimation, confidence intervals, and hypothesis testing. If time allows, a preview of the regression analysis will be provided. The details of regression analysis will be covered in Introductory Econometrics, which is a continuation of this course.	2016年度までのBC12031「統計科学」の単位を取得した者は履修不可。 Identical to BC51181. Lecture is conducted in English, face-to-face			Undergraduate Program of International Social Studies
BE22351	Introduction to International Law	1.0	1 - 4	Fall/C	Thu5,6	1C306	AKIYAMA Hajime	This course introduces the basics of international law. Students learn history and traditional topics as well as recent issues in international law.	This course welcomes non-native English speaking students of both School of Social and International Studies and other schools and programmes. Lecture is conducted in English, face-to-face			Undergraduate Program of International Social Studies
BE22391	International Human Rights Law	2.0	2 - 4	Fall/C	Tue1,2, Thu3, 4	1C306	AKIYAMA Hajime	This course is composed of three parts. Part I "Invitation to International Human Rights Law" covers the basics of humanity, international society and international law. Part II "Basics of International Human Rights Law" discusses the basics of international human rights law such as the Universal Declaration of Human Rights and International Covenants on Human Rights. Part III "Issues" deals with issues in international human rights law such as women, children, refugees and stateless persons. In the third part, students may be required to make an oral presentation depends on the number of students.	This course welcomes native and non-native English speakers of both Undergraduate Program of International Social Studies (TISS) of the School of Social and International Studies and other colleges and programmes. Identical to BB28071. Lecture is conducted in English, face-to-face			Undergraduate Program of International Social Studies
BE22451	Social Development	2.0	2 - 4	Fall/AB	Wed1,2	3A312	Matsushima Midori	People's well-being cannot be achieved by economic growth alone, and the important role of social development has become widely recognised in international development practice. This course is offered for students firstly to increase understandings of why and how social development became a main stream of development by learning historical background and development theory. Secondly, we focus on some key concept and practice including human development, capability approach, participatory approach, and social capital. In the latter half of the course, we learn social development in relation to important development topics namely, poverty, human capital, labour and employment, micro finance, social protection, and human rights and human security. With some examples of on-going development programmes, students will discuss significance and applications of social development in practical field, and how we can improve development programmes towards sustainable development.	Open in even number years. Identical to BC12221. Lecture is conducted in English, face-to-face Course in 2022. Biennial Course (offered in odd years)			Undergraduate Program of International Social Studies
BE22471	Globalization and Development	2.0	2 - 4	Spr/AB	Fri5,6	1C310	Quimpo Nathan Gilbert	This course examines the politics of development in the era of globalization, exploring major issues and problems being encountered and confronted by the developing countries in the contemporary period. The aims of the course are: - To broaden students' knowledge of major development issues and the impact of globalization on developing countries. - To provide students with a good introduction to globalization theory and to the politics of development.	Identical to BC11351. Lecture is conducted in English, G-course, face-to-face	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22491	European Legal History	1.0	3, 4	Fall/C	Wed6, by appointment	1C305	Wataru Miyasaka	This course provides students with introductory overview of European Legal History. This year I would like to focus on the ancient Roman Law, which is the basis of legal systems not only in European continent countries, but also in many countries all over the world influenced from the former countries.	The class will be held in 7th period as well. Students who have earned credits of BB21581 or BB28761 are not permitted to take this class. Open in even number years. Identical to BB28771. Lecture is conducted in English, face-to-face			Undergraduate Program of International Social Studies
BE22501	Linguistic Anthropology	2.0	2 - 4	Spr/AB	Tue1,2	3A304	Ide Risako	An introduction to linguistic anthropology, this course explores the relationship between language and culture, especially on how language reflects culture and how culture creates language. Through the lectures, required readings, group discussions, and student projects, we will learn the roles and functions of language in creating universal as well as cultural-specific worldviews.	First period only in Room 3A403 Identical to BC11511. Lecture is conducted in English, face-to-face (partially online) (former Anthropological Linguistics)			Undergraduate Program of International Social Studies
BE22581	Sociology of Migration	2.0	2 - 4	Fall/AB	Thu3,4	1C406	Urano Edson Ioshiaqui	This course aims to analyze international migration focusing on key themes for understanding this social phenomenon. To this end, topics such as gender and migration, transnational communities, migration policies will be addressed through a sociological and multidisciplinary perspective.	Limited to 30 students. Open in even number years. Lecture is conducted in English, G-course, face-to-face Biennial Course (offered in even years)	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22821	History of Economic Thought	2.0	2 - 4	Fall/AB	Thu5,6	1C403	Moges Abu Girma	The course is about the history, philosophy and evolution of economic ideas and thoughts. We review critically the different schools of economic thoughts from the classical to the modern schools to provide students with a comprehensive understanding of the origin, evolution, arguments, and philosophy of economics and the economists behind such powerful ideas.	Identical to BC16021. Lecture is conducted in English, face-to-face		It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22851	Mathematical Economics	2.0	2 - 4	Spr/AB	Tue1,2		Ikefuji Masako	This course introduces students to the most fundamental analytical tools of mathematics for economics. It provides the necessary skills and training to use mathematical approach in economic analysis. The goal of this course is to give the students skills to apply the mathematical methods to solution of economics problems.	Identical to BB41561 and BC16011. Lectures are conducted in English. Online (Asynchronous) Identical to BB41561 and BC16011. Lecture is conducted in English. Online (Asynchronous)	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22861	Health Economics	2.0	2 - 4	Spr/AB	Thu5,6	1C403	Moges Abu Girma	Health Economics is an applied economics course that analyzes issues in health, medical care and health finance. The demand for health and medical care services and the economic behavior of health service providers and the operation of health insurance markets are analyzed with economic tools of analysis and perspectives. The role of the government sector in the provision, regulation and financing of health care services are addressed within the context of health sector policies both in developed and developing countries.	Identical to BC12921. Lecture is conducted in English, face-to-face	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies

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BE22871	Contemporary Issues in Developing Countries	2.0	2 - 4	Fall/AB	Fri,4,5	3K102	Nakano Yuko	The goal of this course is to understand contemporary and important economic and social issues in developing countries. We also analyze statistical data related to the topics.	Identical to BE41401 and BC12121. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
EB09113	Seminar in Biology I: Field Guide to Snow Land Animals in Winter	1.0	1, 2	Spr Vac	Intensive	Sugadaira	Yahata Kensuke, Sato Yukie, 藤田 麻里	A five-day residential course held at the Sugadaira Research Station. The aim of this course, through animal tracking, bird watching, collecting insects, is to provide genuine experience of the qualities of nature and wild animals in snowy areas.	Lecture is conducted in English. 2/24-2/28 Students must be enrolled in Gakkensai.. face-to-face EB09103 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB09213	Seminar in Biology II: Guide to Seashore Animals and Plants	1.0	1, 2	Spr Vac	Intensive	Shimoda	Yaguchi Shunsuke, Nakano Hiroaki, Agostini Sylvain Leonard Georges	In this course at Shimoda Marine Research Center, students will survey marine animals on a rocky reef, and conduct field collections of planktonic and benthic animals. This will be followed by lectures and laboratory observations, providing a deeper understanding of marine life.	Lecture is conducted in English. 3/10-3/14 Students must be enrolled in Gakkensai.. face-to-face EB09203 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB11851	Introduction to Plant Physiology	1.0	1, 2	Spr/AB	Thu4	2B208, 2B209	Iwai Hiroaki, Oguchi Taichi, Ono Michiyuki, Kikuchi Akira, Suzuki Takuya, Suzuki Iwane, Miura Kenji, Watanabe Kazuo	This lecture describes the fundamentals of plant physiology, focusing on major physiological responses and their controlling factors in plants that cause various physiological responses by various environmental stimuli.	This lecture is planned as face-to-face, but it may be changed to online depending on the situation. See Syllabus or recent information from manaba for detail. Lecture is conducted in English. face-to-face	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB12012	Technical English AI	1.0	2	Spr/AB	Wed4	2B206, 2B207, 2B411, 2C101, 2C107	Wood Matthew Christopher, okamoto naoki, CascoRobles Martin Miguel, Nakayama Takuro, Nosaki Shohei	This course encourages students to take a more active and assertive approach to their studies and provides an opportunity to develop practical skills in information searching and oral presentation.	for Students in Biology. See Syllabus or recent information from manaba for detail. Lecture is conducted in English. face-to-face	△	GS students only.	College of Biological Sciences
EB13114	Science Communication I	1.0	2	Fall/AB	Thu2	2B208, 2B209	Wood Matthew Christopher	To communicate science effectively it is important to have a clear understanding, in broad fundamental terms, of what science actually is, and how it is conducted. In this course we will confirm our own understanding of science, its strengths, and its limitations. We will then look at how science is presented to the general public, specifically how it is portrayed in the news and in other fictional media, and consider how this may affect public understanding and attitudes toward science. Students will be encouraged to develop their own ideas and opinions toward these complex topics.	for Students in Biology. See Syllabus or recent information from manaba for detail. Lecture is conducted in English. face-to-face	△	GS students only.	College of Biological Sciences
EB13124	Science Communication II	1.0	3	Spr/AB	Thu2	2B208, 2B209	Wood Matthew Christopher	This course will explore informal learning environments and their importance for science communication. We will discuss the merits and pitfalls of some new media formats for communicators and researchers to share their science.	for Students in Biology. See Syllabus or recent information from manaba for detail. Lecture is conducted in English. face-to-face	△	GS students only.	College of Biological Sciences
EB50171	Animal Systematics II	1.0	2, 3	Fall/C	Wed,4,5	2B208, 2B209	Wada Hiroshi	Students will learn the methodology to understand the diversity of multicellular animals from the viewpoint of evolutionary biology. In particular, learn in detail the origin of the metazoans, the evolution of the diploblasts, mollusks, schinoderms, and chordates, and learn how to reconstruct the evolutionary history by comparing modern animals.	See Syllabus or recent information from manaba for detail. Open in even number years. Lecture is conducted in English. Biodiversity course. GloBE Course. face-to-face Who has credit of EB50121 or EB50131 is ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB50211	Plant Taxonomy I	1.0	2, 3	Spr/AB	Fri,2	2B508	Ishida Ken-ichiro	Diversity, classification, morphology, ultrastructure, life history and phylogeny of non-green algae - glaucophytes, rhodophytes, cryptophytes, chlorarachniophytes, euglenophytes, dinoflagellates, haptophytes, and stramenopiles.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Biodiversity course. GloBE Course. Expected to attend all I, II, III through a year.. face-to-face EG20211 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB50221	Plant Taxonomy II	1.0	2, 3	Fall/AB	Fri,2	2B508	Nakayama Takeshi	Diversity, classification, morphology, ultrastructure, life history and phylogeny of green plants, including chlorophytes and land plants.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Biodiversity course. Expected to attend all I, II, III through a year.. face-to-face EG30221 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB59101	Protistology	1.0	2 - 4	Fall/C	Fri,2,3	2B412	Ishida Ken-ichiro, Kuwayama Hidekazu, Degawa Yosuke, Nakayama Takeshi, Yabuki Akinori	Topics in protistology. Cellular evolution, cell biology, sex and reproduction, phylogeny and ecology of protists will be the subjects of this lecture.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Biodiversity course. face-to-face EG39101 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB59151	Vertebrate Evolution	1.0	2 - 4	Fall/AB	Mon,3	2B208, 2B209	Irving Louis John	This course looks at the major transitions during vertebrate evolution, particularly focussing on the transition between water and land, and the adaptations which facilitated that transition. The diversification of animal life on land, and the subsequent return of some groups to water will be studied. This course will have a strong evolutionary biology focus.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Biodiversity course. GloBE Course. face-to-face EB59131 is ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB60014	Programming I	1.0	2, 3	Fall/AB	Thu1		Tokunaga (Toquenaga) Yukihihiko	In this lecture, students learn programming techniques for manipulating a variety of data. They will also learn simulation techniques with individual-based models. The programming language used is Ruby.	Lecture is conducted in English. Computational Biology & Bioinformatics Course. Online(Synchronous) EG20014 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB62011	Genome Biology I	1.0	2, 3	Spr/AB	Tue1	2B412	Kuwayama Hidekazu	Lectures will cover basic knowledge on the structure and function of the genome, as well as technologies for DNA and genome analyses.	Lecture is conducted in English. Computational Biology & Bioinformatics Course. GloBE Course. face-to-face EG22011 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB63111	Molecular Evolution I	1.0	2, 3	Spr/AB	Mon,2		Inagaki Yuji	Molecular evolution is a research field that aims to elucidate the evolution of organisms based on information macromolecules such as DNA and proteins. In this lecture, the basic concepts of molecular evolution and the basics of molecular phylogenetic methods will be explained.	履修に際し、適宜、最新のシラバスやmanaba等の情報を確認してください。Lecture is conducted in English. Computational Biology & Bioinformatics Course. GloBE Course. Online(partially face-to-face)	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB64021	Biometry II	1.0	2, 3	Fall/AB	Fri,3		Tokunaga (Toquenaga) Yukihihiko	This lecture introduces the dark side of statistics. Starting with randomization techniques, students learn relationships among different domains of statistical ideas: parametric, nonparametric, null hypothesis significance testing, information-theoretic methods, and the Bayesian methods.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Computational Biology & Bioinformatics Course. Online(Synchronous) EG34021 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences

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EB64111	Theoretical Ecology	1.0	2, 3	SprAB	Thu1		Tokunaga (Toquena) Yukihiro	This course illustrates theoretical aspects of ecology with examples of laboratory experiments to connect mathematical expressions with ecological phenomena in nature.	Lecture is conducted in English. Computational Biology & Bioinformatics Course. Online (partially face-to-face). Online (Synchronous) E634111 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB71031	Cell Biology III	1.0	2, 3	FallAB	Thu3	2B508	Chiba Tomoki	Proteins are in a dynamic state, which is regulated by protein synthesis and degradation pathways. Each protein is degraded in a degree of selectivity, and its regulation is essential for the cell homeostasis and viability. In this class, we will learn the latest findings on the molecular mechanism of selective protein degradation and its physiological importance.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Molecular and Cellular Biology Course. GloBE Course. face-to-face E671131 or E635131 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB72121	Developmental Biology II	1.0	2, 3	FallAB	Tue3	2B508	Niwa Ryusuke, Kobayashi Satoru, Sasakura Yasunori, Yaguchi Shunsuke, Okamoto Naoki, Sanaki Yuya	A goal of this course is to understand several important topics about animal developmental biology. Lectures in this course particularly focus on sex determination, gametogenesis, metamorphosis, axis specification, neural development, and diseases.	Match TWINS Bulletin Board and announcements on manaba for schedule of face-to-face classes. Lecture is conducted in English. Molecular and Cellular Biology Course. Human Biology course. GloBE Course. face-to-face (partially online)	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB72911	Marine Biology I	1.0	2, 3	SprAB	Wed3	2B508	Inaba Kazuo, Agostini Sylvain Leonard Georges	Lecture will give you several topics on physical, chemical and biological properties of ocean to understand the physiology, reproduction, development, biodiversity and ecology of marine invertebrates and fish. This class will especially focus on the following aspects of marine life: life cycle, locomotion, sensory reception, biomineralization, biogeochemical distribution, photosynthesis, respiration, calcification, nitrogen fixation and the impact of climate change. We will give examples of marine organisms under planktonic and benthic conditions and coral reef. The history and present situation of marine biology research will be also included.	Lecture is conducted in English. Molecular and Cellular Biology Course. GloBE Course. face-to-face E622911 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB72921	Marine Biology II	1.0	2, 3	FallAB	Wed3	2B508	Inaba Kazuo, Sasakura Yasunori, Yaguchi Shunsuke, Shiba Kogiku, Nakano Hiroaki, Wada Shigeki, Agostini Sylvain Leonard Georges	Lecture will provide several topics on marine organisms, including fertilization, cilia and flagella, gene-manipulation, development, self-non-self recognition, evolution, animal behavior, population ecology and marine environment. The teaching staff of Shimoda Marine Research Center will tell you about recent progress of their own research.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Molecular and Cellular Biology Course. Online (partially face-to-face) E632921 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB73151	Animal Physiology I	1.0	2, 3	SprAB	Tue2	2B309	Vogt Kaspar		Open in even number years. Lecture is conducted in English. Molecular and Cellular Biology Course. face-to-face	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB74111	Plant Physiology I	1.0	2, 3	SprAB	Fri1	2B411	Irving Louis John, Furukawa Jun, Miura Kenji, Ono Michiyuki	In this lecture, the relationship between various physiological phenomena and the environmental factors in the life history of higher plant will be overviewed for the understanding from the viewpoint at whole plant to cell levels with adding the latest molecular biological findings.	Lecture is conducted in English. Molecular and Cellular Biology Course. GloBE Course. face-to-face E624111 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB74211	Metabolic and Physiological Chemistry I	1.0	2, 3	SprAB	Thu1	2B508	Suzuki Iwane	The main topics for this course will be photosynthetic energy conversion, primary and secondary carbon metabolism including C3, C4 and CAM metabolisms, photosynthesis, and mitochondrial respiration.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Molecular and Cellular Biology Course. GloBE Course. face-to-face E624211 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB74221	Metabolic and Physiological Chemistry II	1.0	2, 3	FallAB	Thu1	2B508	Minoda Ayumi, Irving Louis John	This course provides an overview of metabolism, which supports all life activities. In the first part of the course, we will discuss the following four topics: (1) Catabolism and Anabolism, (2) Energy conversion, (3) Nutrient transport and Assimilation, (4) Regulation of metabolic pathways. At the latter part, we will explore the environmental regulation of photosynthesis (light response, CO2 response) with the goal of understanding plant adaptations to different environments. We are welcome the students who did not take Metabolic Biochemistry Course I.	See Syllabus or recent information from manaba for detail. Lecture is conducted in English. Molecular and Cellular Biology Course. face-to-face Who has credit of EB74231 or E634231 or E634221 is ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB82131	Chemical Ecology	1.0	2, 3	FallAB	Fri4	2C107	Yokoi Tomoyuki, Matsuyama Shigeru, Yamaji Keiko, Kinoshita Natsuko, Kuramitsu Kazumu	This lecture introduces chemical aspects of relationships between individual insects, animals, plants and microorganisms of the same (pheromone) or different (allelochemicals) species.	Lecture is conducted in English. Applied Biology course. face-to-face E682131 credit holders are ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB83141	Plant Biotechnology I	1.0	2, 3	SprC	Intensive		Watanabe Kazuo, Kikuchi Akira, Ono Michiyuki	Lectures will cover topics on plant biotechnology including control of flowering time, circadian rhythms, photoperiodic responses, organ size and responses to environmental stresses.	See Syllabus or recent information from manaba for detail. Open in even number years. Lecture is conducted in English. 7/8, 7/10 Applied Biology course. Online (Asynchronous). Online (Synchronous). Who has credit of EB83111 or E633111 is ineligible.	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EC23241	Soil Physics II	1.0	2	FallAB	Tue4	2C410	Yamashita Yuji	土の物理学Iの内容に基づいてIIでは、熱力学の応用、電気二重層、分子間力、表面間力について、発展的に学ぶ。Iの内容に加え、透水、保水、表面張力、吸着について学ぶ。A lecture will be given on the thermodynamics and transport phenomena of soil.	「実用解析」、「実用解析II」の同時履修が望ましい。「土の物理学」(E62306)を修得済みの者は履修できない。For English Program Students, it is strongly recommended to take 「Elementary Applied Thermodynamics」(E660491). Lectures are conducted in English. Lecture is conducted in English. face-to-face			College of Agro-Biological Resource Sciences
EC32111	Environmental Ecological Engineering	1.0	3	FallAB	Wed3	2C404	Nomura Nakao	Lecture covers eco-engineering technologies to restore deteriorated environments including following major existing issues: 1) Rehabilitation of enclosed water bodies in terms of water and sediment quality improvement, 2) Biomass energy as a renewable energy and its effect on reduction of greenhouse gas emission, 3) Impact of aquacultural industries on coastal environment including mangrove forest.	横断領域科目「環境」 Identical to E660111. Lecture is conducted in English. face-to-face			College of Agro-Biological Resource Sciences

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EC33651	Renewable Energy and Bioresource Recycling Technologies	2.0	3	Fall/AB	Fri3, 4	2D307	Kitamura Yutaka, Neves Marcos Antonio, Lei Zhongfang, Nakajima Mitsutoshi, Yuan Tian	As a part of advanced use for biological resources, we will explain the conversion and utilization technology of biomass to energy and materials. We will also overview the latest technologies and diffusion trends on renewable energy and consider constructing a resource recycling society utilizing renewable energy.	国立台湾大学とのジョイント講義(一部遠隔授業)。「バイオマス資源循環工学」(EC33281)及び「グリーンエネルギー工学」(EC33041)を修得済みの者は履修できない。Identical to EG60661. Lecture is conducted in English. face-to-face			College of Agro- Biological Resource Sciences
EC33692	Seminar in Biosystems Engineering and Technology	3.0	3, 4	Fall/ABC	Mon2, 3	2D307	Kitamura Yutaka, Neves Marcos Antonio, Tofael Ahamed, Nakajima Mitsutoshi	生物資源の活用における技術や工学の体系すなわちBiosystems Engineeringに関する専門的かつ最新の研究や知見を、論文の概要作成やプレゼンテーションなどの演習を通じて学習する。	授業の多くを京都大学・国立台湾大学との共同・オンライン(英語)により行う。EC33682を修得済みの者は履修できない。Identical to EG60022. Lecture is conducted in English. distance learning, face-to-face			College of Agro- Biological Resource Sciences
EC34281	International Agricultural and Forestry Policies I	1.0	3, 4	Sum Vac	Intensive		Shuto Hisato, Hagiwara Hideki, Asai Masayasu	Lectures will cover the topics in policies for agriculture, food, forestry, and environmental management related to agriculture and forestry in the world.	平成29年度までの「International Agricultural and Forestry Policies」(EC34081)を履修済みの者は履修できない。EG60611と同一。Open in even number years. Identical to EG60611. Lecture is conducted in English. Work Experience Faculty. face-to-face			College of Agro- Biological Resource Sciences
FE12801	Basic English in Chemistry	3.0	2	Annual	Mon1	1E203	Lee Vladimir Yaroslavovitch	英語に親しみをもち、内容を正しく理解することに重点を置く。教材は専門授業にも参考となる化学的に興味があるものを使用する。	Lecture is conducted in English. face-to-face	△	It depends on decision of the class instructor	College of Chemistry
FE13701	Advanced Reading of Foreign Literature in Chemistry	3.0	3	Annual	Mon3	1E203	Lee Vladimir Yaroslavovitch	化学の専門分野における英語の解説書、論文などを講読し、化学の専門知識を学ぶ。同時に化学における英語での表現法を学ぶ。	Lecture is conducted in English. face-to-face	△	It depends on decision of the class instructor	College of Chemistry
FF20051	Technical English 1	1.0	3	Spr/AB	Fri1	3A410	Sellaiyan Selvakumar	Improve reading and writing skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF20061	Technical English 2	1.0	3	Fall/AB	Fri3	3A410	TRAORE ABOULAYE	Improve presentation skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF20071	Technical English 3	1.0	3	Fall/BC	Fri6		Tsuruta Ryohei	e-ラーニングシステムを使い、英語表現に慣れ親しむ。ヒヤリング能力、読解力、表現力の養成を目指す。	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. Online (Asynchronous)			College of Engineering Sciences
FF30051	Technical English 1	1.0	3	Spr/AB	Fri3	3A305	Sellaiyan Selvakumar	Improve reading and writing skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF30061	Technical English 2	1.0	3	Fall/AB	Fri1	3A305	Sharmin Sonia	Improve presentation skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF30071	Technical English 3	1.0	3	Fall/BC	Fri6		Mannen Tomoyuki	e-ラーニングシステムを使い、英語表現に慣れ親しむ。ヒヤリング能力、読解力、表現力の養成を目指す。	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. Online (Asynchronous)			College of Engineering Sciences
FF40051	Technical English 1	1.0	3	Spr/AB	Wed1	3A305	Islam Monirul Muhammad	Improve reading and writing skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF40061	Technical English 2	1.0	3	Fall/AB	Wed3	3A408	TRAORE ABOULAYE	Improve presentation skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF40071	Technical English 3	1.0	3	Fall/BC	Fri6		Yamaguchi Seira	e-ラーニングシステムを使い、英語表現に慣れ親しむ。ヒヤリング能力、読解力、表現力の養成を目指す。	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. Online (Asynchronous)			College of Engineering Sciences
FF50051	Technical English 1	1.0	3	Spr/AB	Tue3	3A305	JUNG Mincherl	Improve reading and writing skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF50061	Technical English 2	1.0	3	Fall/AB	Wed1	3A305	Sharmin Sonia	Improve presentation skills related to technical English.	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. face-to-face			College of Engineering Sciences
FF50071	Technical English 3	1.0	3	Fall/BC	Fri6		Tasaki Wataru	e-ラーニングシステムを使い、英語表現に慣れ親しむ。ヒヤリング能力、読解力、表現力の養成を目指す。	専門基礎科目 必修科目 Lecture is conducted in English. Major required course. G-course. Online (Asynchronous)			College of Engineering Sciences
GB13614	Computer Science in English A	2.0	3	Spr/AB	Mon1, 2		Igarashi Yasuhiko, Bou Savong	本講義では、基礎的な情報科学を題材にした英語の学術資料を用いて、英語の学術資料を理解し、学習に役立てるため、講義・演習を行う。	Lecture is conducted in English. Online (Asynchronous) 一部の説明を日本語でも行う。			College of Information Science
GB13624	Computer Science in English B	2.0	3	Fall/AB	Wed5, 6	3B302	Aranha, Claus, Ye Xiucui	The course provides an introduction to elementary concepts of mathematics for computer science. Topics include: formal logic notation, induction, sets and relations, permutations and combinations, counting principles, discrete probability.	2020年度までに開設された「Mathematics for Computer Science」(GB13604)の単位を修得した者の履修は認めない。Lecture is conducted in English. face-to-face			College of Information Science
GC55301	Machine Learning and Information Retrieval	2.0	3, 4	Fall/AB	Tue1, 2	7A103	Yu Haitao	Machine learning is playing a fundamental role in our daily life from the way we check emails right down to the way we search online. This course will introduce a number of representative machine learning methods, and show how to utilize them to solve the ranking problem in the field of information retrieval.	Identical to GE62401 and GE72701. Lecture is conducted in English. G-course. face-to-face (partially online) 情報メディア創成学履修生はGC55301を、知能情報システム専攻生はGE72701を、それ以外の学生はGE62401を履修すること。			College of Media Arts, Science and Technology
GC55401	Human-computer Interaction	2.0	3, 4	Fall/C	Mon/Thu, 3, 4	7A205	Kim SunKyoung	This course introduces basic concepts in the theory and practice of Human-Computer Interaction (HCI). The course will help students acquire knowledge about fundamental principles, techniques, and methods for designing, prototyping, and evaluating user interfaces.	Identical to GE72601. Lecture is conducted in English. G-course. face-to-face (partially online) 情報メディア創成学履修生はGC55401を、それ以外の学生はGE72601を履修すること。			College of Media Arts, Science and Technology
GE50722	English for Specialized Subjects B-2	1.0	3	Spr/AB	Mon4	7A102	Kim SunKyoung	This course aims to make students familiar with academic English. Students will learn how to read and write research papers. Also, students will practice making a presentation and listening to others' research presentations. This course is designed for undergraduate students and will be based on entire activities of conducting research.	Lecture is conducted in English. face-to-face (partially online) 知能情報システム専攻生対象。			College of Knowledge and Library Sciences
GE62401	Machine Learning and Information Retrieval	2.0	3, 4	Fall/AB	Tue1, 2	7A103	Yu Haitao	Machine learning is playing a fundamental role in our daily life from the way we check emails right down to the way we search online. This course will introduce a number of representative machine learning methods, and show how to utilize them to solve the ranking problem in the field of information retrieval.	Identical to GC55301 and GE72701. Lecture is conducted in English. G-course. face-to-face (partially online) 情報メディア創成学履修生はGC55301を、知能情報システム専攻生はGE72701を、それ以外の学生はGE62401を履修すること。			College of Knowledge and Library Sciences
GE72601	Human-computer Interaction	2.0	3, 4	Fall/C	Mon/Thu, 3, 4	7A205	Kim SunKyoung	This course introduces basic concepts in the theory and practice of Human-Computer Interaction (HCI). The course will help students acquire knowledge about fundamental principles, techniques, and methods for designing, prototyping, and evaluating user interfaces.	Identical to GC55401. Lecture is conducted in English. G-course. face-to-face (partially online) 情報メディア創成学履修生はGC55401を、それ以外の学生はGE72601を履修すること。			College of Knowledge and Library Sciences

Course Number	Course Name	Credits	standard registration year	Term	Meeting Days, Period etc.	Classroom	Instructor	Course Overview	Remarks	Credited Auditors	Application conditions	Subjects Areas or Course offering Schools/Colleges
GE72701	Machine Learning and Information Retrieval	2.0	3, 4	Fall/AB	Tue1, 2	7A103	Yu Haitao	Machine learning is playing a fundamental role in our daily life from the way we check emails right down to the way we search online. This course will introduce a number of representative machine learning methods, and show how to utilize them to solve the ranking problem in the field of information retrieval.	Identical to GC55301 and GE62401. Lecture is conducted in English. G-course. face-to-face (partially online) 情報メディア創成学類生はGC55301を、知識情報システム専攻生はGE72701を、それ以外の学生はGE62401を履修すること。			College of Knowledge and Library Sciences
HE22031	Mastering the TOEFL Test	1.0	2	Spr/AB	Thu2		Florescu Cosmin Mihail	The course will allow students to practice useful skills to improve their TOEFL ITP scores. Additionally, students will also be able to enhance their communication skills and get a better understanding of English vocabulary and grammar.	Only Medical Sciences students. Lecture room 4B209. Lecture is conducted in English. face-to-face	△	Contact the instructor in advance (cosmin@md.tsukuba.ac.jp)	College of Medical Sciences
HE40061	English Communication for Medical Sciences I	3.0	3	Fall/ABC	Intensive		Sakaguchi Masanori, Takahashi Satoru, Hamada Michito, Hisatake Koji, Irie Kenji, Ohbayashi Norihiko, Kawaguchi Atsushi, Matsuzaka Takashi	This course covers a variety of medical science research topics. Students will learn basic concepts, methodology, and scientific thinking through each research topic.	This lecture is open for only the student of International Medical Science only. Lecture is conducted in English. Details will be announced. face-to-face (partially online)	△	Only for regular students	College of Medical Sciences
HE40071	English Communication for Medical Sciences II	3.0	4	Spr/AB Spr/C	Mon/Fri Mon/Thu		Hamada Michito, Takahashi Satoru	This course covers a variety of medical science research topics. Students will learn basic concepts, methodology, and scientific thinking through each research topic.	This lecture is open for only the student of International Medical Science only. Lecture is conducted in English. face-to-face (partially online)	△	Only for regular students	College of Medical Sciences
HE40161	Topics in Vascular Biology	1.0	3, 4	Fall/AB	Intensive	4B119	Yanagisawa Hiromi, YAMASHIRO YOSHITO, KIMURA KENICHI, Ishii Ryutaro, Erna Raja	To provide basic knowledge and understanding of vascular biology, ranging from normal vascular development and physiology to molecular mechanisms of vascular diseases, as well as novel diagnostic and therapeutic approaches. The course aims to solicit active participation of students in lectures and journal clubs.	Only Medical Sciences students. Lecture is conducted in English. Details will be announced. face-to-face			College of Medical Sciences
YAL1012	Fundamental Studio Work: Graphic Tools	1.0	1, 2	Spr/C	Thu5, 6	Academic Computing and Communications Center B205, Academic Computing and Communications Center B206	MCLEOD Roderick	Learn how to use Adobe Creative Suite through four production tasks.	人数制限あり. Lecture is conducted in English. Work Experience faculty. Online (Asynchronous)	△	Cannot accept more students due to the limited number of educational equipment available	School of Art and Design
YAL1022	Fundamental Studio Work: Digital Photography	1.0	1 - 4	Spr/A	Tue5, 6	6A208	MCLEOD Roderick	Using a digital camera (with manual controls), learn basic photography techniques including lighting. We will also learn about image processing.	Required equipment (e.g. Digital camera) will be explained in the first class. Lecture is conducted in English. Work Experience faculty. face-to-face (partially online)	△	本学出身者又は本学大学院在学中の者に限る	School of Art and Design
YBL1712	Workshops on Contemporary Photography	2.0	3	Fall/AB	Tue2, 3	6A208	MCLEOD Roderick	Explore contemporary approaches to photography with analogue and digital photomedia. Develop knowledge of photographic processes and produce a photo project on a theme or topic of interest.	Lecture is conducted in English. Work Experience faculty. face-to-face			School of Art and Design
YBL2042	Workshops on Visual Design B	1.0	2	Fall/AB	Fri3		MCLEOD Roderick	Learn how to give shape to ideas in visual design through practical assignments.	Lecture is conducted in English. Work Experience faculty. Online (Asynchronous)	△	Depends on if there are enough facilities and educational equipment	School of Art and Design