

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

Course Number	Course Name	Credits	Standard registration year	Term	Meeting Day/Period	Classroom	Instructor	Course Overview	Remarks	Credited Auditors	Application conditions	Subjects Area or Course offering School/Category
32H1022	Basic German AI	1.0	1	SprABC	Mon3		Heselhaus, Herrad	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(入門レベル)の修練を目標とする。	人文・芸術対象(学修番号末尾4.0)主に英語で授業を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32H2012	Basic German AI	1.0	1	SprABC	Mon4		Heselhaus, Herrad	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(入門レベル)の修練を目標とする。	人文・芸術・教育(対象:学修番号末尾奇数)主に英語で授業を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32H4012	Basic German AI	1.0	1	SprABC	Mon6		Schmid Dieter	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(入門レベル)の修練を目標とする。	医学・看護・薬学・芸術対象主に英語で授業を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32H6012	Basic German AI	1.0	1	SprABC	Fri2		Rude Markus	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(入門レベル)の修練を目標とする。	社会・国際・資源・情報対象(学修番号末尾奇数)主に英語で授業を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32H7022	Basic German AI	1.0	1	FallABC	Mon6		Rude Markus	This German language course for beginners is designed to learn basic grammar (Introductory Level) while acquiring the fundamental four skills (Listening/Reading/ Speaking/Writing). 初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(入門レベル)の修練を目標とする。	For English Programs students. Lectures are conducted in English. G30及び全学群対象(当該年入学後入学後入学者および卒業前不合格者を除く)。主に英語で授業を行います。 Lecture is conducted in English. G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32J3022	Basic German BI	1.0	1	SprABC	Thu2		Rude Markus	初級者を対象としたこのドイツ語の授業では、基本文法(入門レベル)の重要項目を確固しながら、社会生活の場面に即した基礎的なコミュニケーション能力の修練を目標とする。	生物・地球・数学・物理・化学・創成対象(学修番号末尾偶数)主に英語で授業を行います。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32J7022	Basic German BI	1.0	1	FallABC	Wed6		Rude Markus	This German class for beginners is designed to acquire basic communication skills adapted for social life situations while confirming important items in basic grammar (Introductory Level). 初級者を対象としたこのドイツ語の授業では、基本文法(入門レベル)の重要項目を確固しながら、社会生活の場面に即した基礎的なコミュニケーション能力の修練を目標とする。	For English Programs students. Lectures are conducted in English. G30及び全学群対象(当該年入学後入学後入学者および卒業前不合格者を除く)。主に英語で授業を行います。 Lecture is conducted in English. G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32K1022	Basic German All	1.0	1	FallABC	Mon3		Heselhaus, Herrad	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(基礎レベル)の修練を目標とする。	人文・芸術対象(学修番号末尾4.0)主に英語で説明を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32K2012	Basic German All	1.0	1	FallABC	Mon4		Heselhaus, Herrad	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(基礎レベル)の修練を目標とする。	人文・芸術・教育(対象:学修番号末尾奇数)主に英語で説明を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32K4012	Basic German All	1.0	1	FallABC	Mon6		Schmid Dieter	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(基礎レベル)の修練を目標とする。	医学・看護・薬学・芸術対象主に英語で授業を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32K5012	Basic German All	1.0	1	FallABC	Fri2		Rude Markus	初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(基礎レベル)の修練を目標とする。	社会・国際・資源・情報対象(学修番号末尾奇数)主に英語で授業を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32K7022	Basic German All	1.0	1	FallABC	Thu6		Rude Markus	This German language course for beginners is designed to learn basic grammar (Basic Level) while acquiring the fundamental four skills (Listening/Reading/ Speaking/Writing). 初級者を対象としたこのドイツ語の授業では、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、とくに基本文法(基礎レベル)の修練を目標とする。	For English Programs students. Lectures are conducted in English. G30及び全学群対象(当該年入学後入学後入学者および卒業前不合格者を除く)。主に英語で授業を行います。 Lecture is conducted in English. G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32L3022	Basic German BII	1.0	1	FallABC	Thu2		Rude Markus	この授業では、すでにドイツ語の初歩的な文法やコミュニケーション能力を身につけている学習者を対象に、さらなる基礎的なコミュニケーション能力の修練を目標とする。2年次以降の継続的な学習に十分な学力の獲得を目指す。	生物・地球・数学・物理・化学・創成対象(学修番号末尾偶数)「基礎ドイツ語BII」は選択・自由科目だが、「基礎ドイツ語BII」との継続性を持っているので、そのまま続けて履修することを推奨する。主に英語で授業を行います。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32L5012	Basic German BII	1.0	1	FallABC	Fri1		Rude Markus	この授業では、すでにドイツ語の初歩的な文法やコミュニケーション能力を身につけている学習者を対象に、さらなる基礎的なコミュニケーション能力の修練を目標とする。2年次以降の継続的な学習に十分な学力の獲得を目指す。	教育・心理・経営・知能・体育(対象:「基礎ドイツ語BII」は選択・自由科目だが、「基礎ドイツ語BII」との継続性を持っているので、そのまま続けて履修することを推奨する。主に英語で説明を行ないます。英語での対応可能。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32S1412	Language and Culture A (German)	1.0	2	SprABC	Fri4		Rude Markus	「基礎ドイツ語(AI/AII)」で修得した言語知識を踏まえて、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、ドイツ語圏の文化と社会の理解をさらに深めることを目指します。	社会・国際・資源・創生・看護・芸術対象。「基礎ドイツ語」A及びBの履修者に限る。主に英語で授業を行います。 G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
32S1622	Language and Culture A (German)	1.0	2	SprABC	Fri5		Rude Markus	「基礎ドイツ語(AI/AII)」で修得した言語知識を踏まえて、4技能聞く・読む・話す・書くの総合的な修練に配慮しながら、ドイツ語圏の文化と社会の理解を深めることを目指します。	For G30 students. Lectures are conducted in English. G30及び全学群対象。「基礎ドイツ語」A及びBの履修者に限る。主に英語で授業を行います。 Lecture is conducted in English. G-course Hybrid or Others 原則としてオンライン(オンデマンド)とする。但し、状況に応じて、同種双向型のオンライン授業を使用する。	△	It depends on decision of the class instructor	Common Foundation Subjects Foreign Languages
9901061	Museum Exhibition I	1.0	2,3	SprAB	Fri5	5C213	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、展示の形態などについて、理論的および実践的知識や技術を獲得し、美術館の企画・展示活動に役立つ知識の修練を目指す。	Lecture is conducted in English. Work Experience faculty			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.			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.	2018年度以前の入学者に限り受講可 Lecture is conducted in English.			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.	2018年度以前の入学者に限り受講可 Lecture is conducted in English. 1/19, 1/21, 1/25, 1/27			College of Humanities
AB91A11	Experimental Phonetics	1.0	2,3	SprAB	Thu5		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.			College of Humanities
AB91A21	Experimental Linguistics	1.0	2,3	FallAB	Thu5		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.			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.	2018年度以前の入学者に限り受講可 Lecture is conducted in English. 1/22, 1/26, 1/28, 2/2			College of Humanities
ACS0F61	Introduction to One-Planet Relational Studies in Literature and Culture	1.0	1,2	SprAB	Tue3		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. Hybrid or Others			College of Comparative Culture
ACS3012	English for Specific Purposes II-1B	1.5	3	FallABC	Mon6			Academic Writing II- This course supports students in developing advanced writing skills for longer writing texts. Working from paragraph format to essay development, students will practice and perfect different genres of writing for academic contexts.	Lecture is conducted in English.			College of Comparative Culture
ACS3032	English for Specific Purposes II-2B	1.5	3	FallABC	Tue3			English in Social Media: This course invites students to creatively engage with social media. Students will participate in online projects that employ English writing skills in creative ways, and in voice-to-voice or video projects that enhance oral communication abilities in English. Students will also conduct group projects that will enhance their practical knowledge of social media.	Lecture is conducted in English. Lecture is conducted in English. 1/19, 1/21, 1/25, 1/27			College of Comparative Culture
ACS3062	English for Specific Purposes II-4A	1.5	3	SprABC	Mon2			English Café インタラクティブ・カフェ This course provides a high quality culture and language class in a fun, relaxed, and sociable environment in order to improve students' listening skills and debate skills. We will be inviting a special selection of guest speakers/lecturers who will engage with students and encourage discussion on a variety of cultural topics.	Lecture is conducted in English. Lecture is conducted in English.			College of Comparative Culture
ACS3072	English for Specific Purposes II-4B	1.5	3	FallABC	Wed3			English Café インタラクティブ・カフェ This course provides a high quality culture and language class in a fun, relaxed, and sociable environment in order to improve students' listening skills and debate skills. We will be inviting a special selection of guest speakers/lecturers who will engage with students and encourage discussion on a variety of cultural topics.	Lecture is conducted in English. Lecture is conducted in English.			College of Comparative Culture
AC61A31	Anglo-American Studies IV	1.0	3,4	SprC	Fri5,6	2B208	Lafontaine Andrée	This seminar explores the melodramatic tradition in American film and literature, and its relationship to history, politics, and cultural issues.	Lecture is conducted in English. Hybrid or Others AC14271, AC61121の単位取得者は履修できない。			College of Comparative Culture

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AC61A41	Anglo-American Studies V	1.0	3, 4	Fall/C	Fri5,6	2B208	Lafontaine Andr�e	This course examines literary and cinematic works belonging to the Afrofuturist tradition.	Lecture is conducted in English. Hybrid or Others AC15251, AC61141の単位取得者は履修できない。			College of Comparative Culture
AC61B41	Canadian Studies: Special Topic I	1.0	2, 3	Spr/C	Fri,3,4	2B208	Lafontaine Andr�e	This course examines the cinema and culture of Quebec, focusing on contemporary trends and filmmakers. Our goal is to gain greater insight into Quebec society, history, politics and its relationship with the rest of Canada and the world.	Lecture is conducted in English. Hybrid or Others AC14311, AC15301, AC624201, AC61211の単位取得者は履修できない。			College of Comparative Culture
AC61B51	Canadian Studies: Special Topic II	1.0	2, 3	Fall/C	Fri,3,4	2B206	Lafontaine Andr�e	This course explores the diversity of Canadian cinema, focusing on non-mainstream and non-commercial productions. Our goal is to develop a fuller understanding of Canadian society and culture by looking at its artistic productions.	Lecture is conducted in English. Hybrid or Others AC612310の単位取得者は履修できない。			College of Comparative Culture
AC61B61	Gender Studies: Special Topic	1.0	3, 4	Spr/AB	Thu,3	2B208	Lafontaine Andr�e	This class investigates how genders are represented, constructed, and reproduced in visual culture: advertisement, cinema, television, animation and manga.	Lecture is conducted in English. Hybrid or Others AC14222, AC15300, AC61042の単位取得者は履修できない。 AC14222, AC15300, AC61042の単位取得者は履修できない。			College of Comparative Culture
AC61C02	Seminar in Anglo-American Studies I	1.0	3, 4	Fall/AB	Thu,3	2B206	Lafontaine Andr�e	This class surveys major literary and cinematic works belonging to the Southern Gothic tradition, with a special focus on short stories. Authors include Edgar Allan Poe, William Faulkner, Flannery O'Connor, Eudora Welty, Carson McCullers, Tennessee Williams and Alice Munro.	Lecture is conducted in English. Hybrid or Others AC14222, AC15300, AC61042の単位取得者は履修できない。			College of Comparative Culture
AC63J01	One-Planet Relational Studies in Literature and Culture (lecture) I	1.0	2 - 4	Fall/AB	Mon,5		Heselhaus, Herrad	Intermediate 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 odd number years. Lecture is conducted in English. Hybrid or Others			College of Comparative Culture
AC63K02	One-Planet Relational Studies in Literature and Culture (seminar) I	1.0	2 - 4	Spr/AB	Tue,2		Heselhaus, Herrad	This class focuses on concepts of social and moral responsibility, such as global citizenship, stewardship and mindfulness.	Open in odd number years. Lecture is conducted in English. Hybrid or Others			College of Comparative Culture
AC63K12	One-Planet Relational Studies in Literature and Culture (seminar) II	1.0	2 - 4	Fall/AB	Tue,2		Heselhaus, Herrad	This class focuses on agency and problem solution in current global issues and crises.	Open in odd number years. Lecture is conducted in English. Hybrid or Others			College of Comparative Culture
AE13E81	Introduction to Japanese Culture	1.0	2	Fall/AB	Tue,6	2H201	Suzuki Nobutaka	This class is to provide students with basic ideas and knowledge to understand the historical development of Japanese culture. It will particularly examine how Japan has created its unique religious tradition and practice through accepting Chinese influences.	2018年度以前の日本語・日本文学入学生はAE121に報告。 This course is taught in English. Lecture is conducted in English. JTP G-course see-to-face			College of Japanese Language and Culture
AE13I22	Seminar on Studies of Culture and Representation	1.0	3, 4	Fall/AB	Fri,4		Watabe Kohji	演習形式で日本や日本と関係する文化的表象を具体的に分析する。基本的には授業の発表を中心に扱う。	2018年度以前の日本語・日本文学入学生はAE121に報告。 This course is conducted in English. Online/Synchronous			College of Japanese Language and Culture
BB11B61	Transnational Social Policy	2.0	2 - 4	Fall/AB	Thu,1,2		Urano Edson Ioshiaqui	Globalization has brought many changes in social life, including increasing flows of financial resources, goods and persons. Among the new challenges these changes pose to governments and civil society is the need to create new social agenda and to develop social policies. The aim of this course is to discuss these challenges for the 21st Century from a transnational perspective.	Biennial Course (offered in odd years) Open in odd number years. Identical to BC1471 and BE22401. Lecture is conducted in English. JTP G-course	Δ	It depends on decision of the class instructor	College of Social Sciences
BB11B71	Sociology of Contemporary Japan	2.0	1, 2	Spr/AB	Thu,1,2		Urano Edson Ioshiaqui	The aim of this course is to analyze the social and economic changes in Japan, with particular focus on changes in the nature of work in society and its implications in Contemporary Japanese society, including complex issues such as migration, foreign workers, ageing society, job hunting, working poor and inequality.	Limited to 35 students. Open in odd number years. Identical to BE21181. Lecture is conducted in English. JTP G-course Equivalent to "Social Issues in Contemporary Japan (BE21181)"	Δ	It depends on decision of the class instructor	College of Social Sciences
BB280B1	Law and Society in Japan	1.0	2 - 4	Spr/AB	Wed,5		Wataru Miyasaka	This course is to provide an introduction to law and to the Japanese legal system. The topics covered by this course include the development of Japanese law, the basic structure of Japanese law, criminal and civil law of Japan and future prospects of Japanese law and legal system.	This course is available only for students who acquired the credit of Introduction to Law or students who register for Introduction to Law simultaneously. The number of students is limited to 20-25. Identical to BE1171. Lecture is conducted in English. JTP G-course Online/Asynchronous	Δ	It depends on decision of the class instructor	College of Social Sciences
BB41401	Contemporary Issues in Developing Countries	2.0	2 - 4	Fall/AB	Fri,4,5		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 BC1211 and BE22871. Lecture is conducted in English. JTP			College of Social Sciences
BB41421	Development Economics	2.0	2 - 4	Spr/AB	Tue,4,5		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 institutional arrangements.	Online. Identical to BC1273 and BE22261. Lecture is conducted in English.			College of Social Sciences
BB41541	Economic History	2.0	2 - 4	Fall/AB	Mon,3,4		Takahashi Hidenao	This course will provide an overview of history of international finance from the late 19th century to the interwar period.	Identical to BE22341. Lecture is conducted in English. Identical to BC16011 and BE22851.			College of Social Sciences
BB41561	Mathematical Economics	2.0	1 - 3	Spr/AB	Mon,5,6		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 BE22311. Lecture is conducted in English. JTP G-course Online/Synchronous	Δ	It depends on decision of the class instructor	College of Social Sciences
BB41571	Economic Growth	2.0	2 - 4	Spr/AB	Wed,5,6		Ikefuji Masako	This course introduces students to the introductory theory of economic growth analysis, the Solow Model, necessary for understanding the concept and determinants of economic growth. The goal of this course is to give the students skills to apply the basic theory and competences to discuss various issues related to economic growth.	Students who completed Principles of Economics/Introduction to Economics (BE21861) or other equivalent courses can register for this course. Students who completed Economic Growth (BE22801) cannot register for this course. Identical to BE22331. Lecture is conducted in English. JTP G-course Online/Synchronous			College of Social Sciences
BB41601	International Trade	2.0	2 - 4	Spr/AB	Thu,1,2		Naito Hisahiro	As the economy becomes more globalized, it is becoming necessary to study the basic mechanism of international trade and its impact on welfare. In this course, we first study the concept of comparative advantage and study why countries will be engaged in international trade. Then, we study the impact on welfare by using several models. (The Ricardian, Heckscher-Ohlin and Specific Factor Model). Then, we study the monopoly model and its implication for international trade theory. In addition, we discuss the impact of international factor movement such as immigration and foreign direct investment.	Open in odd number years. Identical to BC1411, BE22271, and FH25051. Lecture is conducted in English. JTP Hybrid or Others オンライン			College of Social Sciences
BC51071	International Economics	2.0	1	Spr/AB	Wed,3,4		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. It 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. Hybrid or Others See the syllabus for how to attend the class.	Δ	学校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	College of International Studies
BC51081	Intro-Intermediate Macroeconomics	2.0	2	Fall/AB	Thu,1,2		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. JTP Hybrid or Others オンライン	Δ	学校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	College of International Studies
BC51161	Media Politics	2.0	1 - 3	Fall/AB	Wed,3,4		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. Online/Synchronous JTP	Δ	学校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	College of International Studies
BC51181	Statistics	2.0	1 - 3	Fall/AB	Tue,1,2		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 estimators, 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9BC1201「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. JTP Hybrid or Others			College of International Studies
BC11121	International Politics	2.0	2 - 4	Fall/AB	Tue,5,6		Ohtomo Takafumi	This course examines various theories and cases to understand the dynamics of international politics.	Identical to BE22071. Lecture is conducted in English. JTP Hybrid or Others オンライン			College of International Studies
BC11351	Globalization and Development	2.0	2 - 4	Fall/AB	Tue/Fri,2	3B402	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. There will be lectures, videos, discussions and debates on globalization theory, major development issues, politics in the developing world, and the impact of globalization on developing countries.	Identical to BE22471. Lecture is conducted in English. JTP G-course	Δ	It depends on decision of the class instructor	College of International Studies
BC11411	International Trade	2.0	2 - 4	Spr/AB	Thu,1,2		Naito Hisahiro	As the economy becomes more globalized, it is becoming necessary to study the basic mechanism of international trade and its impact on welfare. In this course, we first study the concept of comparative advantage and study why countries will be engaged in international trade. Then, we study the impact on welfare by using several models. (The Ricardian, Heckscher-Ohlin and Specific Factor Model). Then, we study the monopoly model and its implication for international trade theory. In addition, we discuss the impact of international factor movement such as immigration and foreign direct investment.	Open in odd number years. Identical to BB41601, BE22271, and FH25051. Lecture is conducted in English. JTP Hybrid or Others オンライン			College of International Studies
BC11471	Transnational Social Policy	2.0	2 - 4	Fall/AB	Thu,1,2		Urano Edson Ioshiaqui	Globalization has brought many changes in social life, including increasing flows of financial resources, goods and persons. Among the new challenges these changes pose to governments and civil society is the need to create new social agenda and to develop social policies. The aim of this course is to discuss these challenges for the 21st Century from a transnational perspective.	Biennial Course (offered in odd years) Open in odd number years. Identical to BB11B61 and BE22401. Lecture is conducted in English. JTP G-course	Δ	It depends on decision of the class instructor	College of International Studies
BC11511	Linguistic Anthropology	2.0	2 - 4	Spr/AB	Tue,1,2		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. Enrollment will be limited to 100 students.	履修の前提条件として「言語学」の単位を取得した者は履修不可。 Identical to BE22501. Lecture is conducted in English. Online/Asynchronous JTP (former "Anthropological Linguistics")			College of International Studies

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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/Categories
BC11881	Japanese Economy	2.0	2-4	Fall/AB	Mon,5	3B203	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. JTP Hybrid or Others See the syllabus for how to attend the class.	△	Depends on if there is a margin for the number of students or classrooms	College of International Studies
BC11911	Japanese Foreign Policy	2.0	2-4	Fall/AB	Mon,3,4		Pan Liang	This course examines the historical background of modern Japan's foreign policymaking from early 1890s till the end of the Second World War (1945). Main emphasis of the lectures will be placed on the interaction between Japanese domestic politics and foreign affairs.	Open in odd number years. Identical to BE22031. Lecture is conducted in English. JTP Hybrid or Others オンライン			College of International Studies
BC16011	Mathematical Economics	2.0	2-4	Spr/AB	Mon,5,6		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 economic problems.	Identical to BB41561 and BE22851. Lecture is conducted in English. JTP	△	It depends on decision of the class instructor	College of International Studies
BC16021	History of Economic Thought	2.0	2-4	Fall/AB	Thu,5,6		Moges Abu Girna	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.	The course is conducted online for the fall semester on MS Teams system. Identical to BE22021. Lecture is conducted in English. JTP	△	It depends on decision of the class instructor	College of International Studies
BC12061	Econometrics	2.0	2-4	Spr/AB	Tue,1,2		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 pre-requires Introductory Statistics.	Identical to BE22231. Lecture is conducted in English. JTP Hybrid or Others			College of International Studies
BC12091	Economic Development	2.0	2-4	Fall/AB	Thu,3,4	3A212	Mohammad Malek Abdul	This course gives an overview of modern development economics, i.e. economics of low-income, developing and emerging economies. The course will discuss key concepts and issues of economic development especially how tools of macroeconomics, microeconomics, econometrics, international trade, etc. are applied to understanding the problems of development, and how data and empirical evidence can shed light on conflicting views and questions about the process of development.	Identical to BE22901. Lecture is conducted in English. face-to-face			College of International Studies
BC12121	Contemporary Issues in Developing Countries	2.0	2-4	Fall/AB	Fri,4,5		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. JTP			College of International Studies
BC12241	International Education	2.0	2-4	Spr/AB	Tue,3,4		Shibata Masako	This course invites both overseas and Japanese students. The major purpose of the course is to enable students to learn about issues and current trends in educational studies in international perspectives. It deals with themes, such as development, colonial legacy and global interaction in education.	Identical to BE22521. Lecture is conducted in English. Hybrid or Others JTP リアルタイムとオンデマンド (録画視聴)			College of International Studies
BC12251	Outline of Japanese Education	2.0	2-4	Fall/AB	Tue,3,4		Shibata Masako	This course is offered to students who are interested in the historical development of Japanese education. The course looks at the processes of the foundation of the Japanese education system and the formation of a modern state in Japan. Special reference is made to the past and present dimensions of patterns of the cross-national transfer of policy for education. Thus international and comparative perspectives are welcome throughout the course.	Identical to BE22551. Lecture is conducted in English. Hybrid or Others JTP リアルタイムとオンデマンド (録画視聴)			College of International Studies
BC12291	Social Anthropology	2.0	2-4	Annual	Intensive		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. JTP Online(Synchronous) 実務方法(manaba)にて連絡			College of International Studies
BC12352	International Financial Institutions and Economic Development in Southeast Asia	2.0	2-4	Fall/AB	Thu,3,4	3A213	SUZUKI Hideaki	This course aims at applying the macroeconomic knowledge to analyze the actual economic development and macroeconomic management in emerging economies in Southeast Asia on the basis of economic reports by the World Bank and IMF.	Equivalent to "International Financial Institutions and Economic Development in Emerging Economies in Southeast Asia" (BE22292). Identical to BE22292. Lecture is conducted in English. Work Experience faculty			College of International Studies
BC12731	Development Economics	2.0	2-4	Spr/AB	Tue,4,5		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.	Online. Identical to BB41421 and BE22261. Lecture is conducted in English.			College of International Studies
BC12921	Health Economics	2.0	2-4	Spr/AB	Thu,5,6		Moges Abu Girna	Health Economics is an applied economic 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. JTP	△	It depends on decision of the class instructor	College of International Studies
BE21171	Law and Society in Japan	1.0	2-4	Spr/AB	Wed,5		Wataru Miyasaka	This course is to provide an introduction to law and to the Japanese legal system. The topics covered by this course include the development of Japanese law, the basic structure of Japanese law, criminal and civil law of Japan and future prospects of Japanese law and legal system.	This course is available only for students who acquired the credit of introduction to Law or students who register for Introduction to Law simultaneously. The number of students is limited to 20-25. Identical to BB28081. Lecture is conducted in English. JTP G-course Online(Asynchronous)	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21181	Sociology of Contemporary Japan	2.0	1,2	Spr/AB	Thu,1,2		Urano Edson Ioshihagi	The aim of this course is to analyze the social and economic changes in Japan, with particular focus on changes in the nature of work in society and its implications in Contemporary Japanese society, including complex issues such as migration, foreign workers, ageing society, job hunting, working poor and inequality.	Limited to 35 students. Open in odd number years. Identical to BB11871. Lecture is conducted in English. JTP G-course Equivalent to "Social Issues in Contemporary Japan (BE21181)"	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21201	International Economics	2.0	2	Spr/AB	Wed,3,4		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. Hybrid or Others See the syllabus for how to attend the class.	△	学校の基礎科目であるので受講者が卒業す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	Thu,1,2		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. JTP Hybrid or Others オンライン	△	学校の基礎科目であるので受講者が卒業する時には受講を制限することがある	Undergraduate Program of International Social Studies
BE21241	Media Politics	2.0	1-3	Fall/AB	Wed,3,4		Kawasaki Leslie Tkach	From "traditional" media, such as newspapers and television, to new media formats including weblogs, 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 affecting political outcomes.	JTP Identical to BC51161. Lecture is conducted in English. Online(Synchronous)	△	学校の基礎科目であるので受講者が卒業する時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	Spr/AB	Tue,2,3		Wataru Miyasaka	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 30-35. Lecture is conducted in English. Online(Asynchronous)		It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21381	Introduction to Political Science	2.0	1,2	Fall/AB	Mon,1,2		Seki Katsunori	This course introduces students to the fundamental of political science. The goal of this course is to be familiar with major concepts and theories that we often use in empirical political science research. To this end, this course covers a wide range of topics including modern states, political regime, political institutions, political violence, and identity politics. Another goal of this course is to improve your critical thinking skill. I encourage you to move from memorizing factual knowledge to evaluating explanations and interpretations of a variety of political phenomena you observe. Of course, having accurate factual knowledge is important, but it is only the basis with which you start a journey of looking for rigorous explanations of what is happening in the world today.	Equivalent to "Politics and Society (BE21381)" Lecture is conducted in English. G-course Online(Asynchronous)	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21391	Introduction to Sociology	2.0	1,2	Fall/AB	Thu,4,5		Urano Edson Ioshihagi	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.	Bruse, 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. G-course		It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21511	Academic Discussion Seminar	2.0	1,2	Fall/AB	Wed,3,4		Vasilache Simona	The goal of this course is to engage students in active discussions on various contemporary topics, ranging from politics, economic, 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 Online(Synchronous) 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
BE21831	Quantitative Methods for Social Sciences	2.0	1,2	Fall/AB	Tue,3,4		Seki Katsunori	This course introduces students to the fundamental of causal inference that constitutes the core of quantitative social sciences today. The course is divided into three parts: (1) conceptual discussion of causal inference, (2) elementary statistical theory, and (3) programming with statistical software. We are using a free software, R which has been widely used by both scientists and major multinational corporations including Google.	Students learn course materials through video lectures. They also attend live computer lab sessions that are held online during a part of the class time. Lecture is conducted in English. G-course Online(Asynchronous) Online(Synchronous) The number of students is limited to 20. Priorities are given to students from the College of Social Sciences and the College of International Studies.	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE21871	Monetary Economics	2.0	3,4	Fall/AB	Tue,1,2		Moges Abu Girna	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.	The course is conducted online for the fall semester using the MS Teams and reading materials are uploaded on Manaba system. Lecture is conducted in English. JTP G-course			Undergraduate Program of International Social Studies

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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 School/Categories
BE22031	Japanese Foreign Policy	2.0	2 - 4	Fall/AB	Mon,3,4		Pan Liang	This course examines the historical background of modern Japan's foreign policymaking from early 1890s till the end of the Second World War (1945). Main emphasis of the lectures will be placed on the interaction between Japanese domestic politics and foreign affairs.	Open in odd number years. Identical to BC11911. Lecture is conducted in English. JTP Hybrid or Others オンライン			Undergraduate Program of International Social Studies
BE22071	International Politics	2.0	2 - 4	Fall/AB	Tue,5,6		Ohtomo Takafumi	This course examines various theories and cases to understand the dynamics of international politics.	Identical to BC11211. Lecture is conducted in English. JTP Hybrid or Others オンライン			Undergraduate Program of International Social Studies
BE22151	Democratization	2.0	2 - 4	Spr/AB	Tue,3,4		Seki Katsunori	The objective of this course is to help students better understand democratization using the tools and theories of political science. The target of this course is advanced undergraduate students (1) who would like to study questions related to democracy and dictatorship and (2) who would like to write the graduation thesis in this area of research. To this end, this course covers a variety of topics including the concept and typology of political regime, regime change, democracy and development, support for democracy, crisis of democracy, nondemocratic regime, elections in nondemocratic settings, and foreign aid and democracy assistance. Moreover, students are expected to understand and critically evaluate the various theories that are used to explain democratization.	Open in an odd number year. Students who completed "Democratization (BE22131)" in A01929 cannot register. Open in odd number years. Lecture is conducted in English. Online/Synchronous	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22221	Japanese Economy	2.0	2 - 4	Fall/AB	Mon,5,6	3B203	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 BC11881. Lecture is conducted in English. JTP Hybrid or Others See the syllabus for how to attend the class.	△	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	Spr/AB	Tue,1,2		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 prerequisites Introductory Statistics.	Identical to BC12061. Lecture is conducted in English. JTP Hybrid or Others オンライン			Undergraduate Program of International Social Studies
BE22241	Economic History	2.0	2 - 4	Fall/AB	Mon,3,4		Takahashi Hidenao	This course will provide an overview of history of international finance from the late 19th century to the interwar period.	Identical to BB41541. Lecture is conducted in English.			Undergraduate Program of International Social Studies
BE22261	Development Economics	2.0	2 - 4	Spr/AB	Tue,4,5		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, structural development, human capital, governance and institution among others.	Online. Identical to BB41421 and BC12731. Lecture is conducted in English.			Undergraduate Program of International Social Studies
BE22271	International Trade	2.0	2 - 4	Spr/AB	Thu,1,2		Naito Hisahiro	As the economy becomes more globalized, it is becoming necessary to study the basic mechanism of international trade and its impact on welfare. In this course, we first study the concept of comparative advantage and study why countries will be engaged in international trade. Then, we study the impact on welfare by using several models. (The Ricardian, Heckscher-Ohlin and Specific Factor Model). Then, we study the monopoly model and its implication for international trade theory. In addition, we discuss the impact of international factor movement such as immigration and foreign direct investment.	Open in odd number years. Identical to BB1601, BC11411, and FH25051. Lecture is conducted in English. JTP Hybrid or Others オンライン			Undergraduate Program of International Social Studies
BE22321	Statistics	2.0	2	Fall/AB	Tue,1,2		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. At times, 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 BC51811. Lecture is conducted in English. JTP Hybrid or Others			Undergraduate Program of International Social Studies
BE22331	Economic Growth	2.0	2 - 4	Spr/AB	Wed,5,6		Ikefuji Masako	This course introduces students to the introductory theory of economic growth, mainly, the Solow Model, necessary for understanding the concept and determinants of economic growth. The goal of this course is to give the students skills to apply the basic theory and competences to discuss various issues related to economic growth.	Students who completed Principles of Economics(Introduction to Economics (BE21861) or other equivalent courses can register for this course. Students who completed Economic Growth (BE22801) cannot register for this course. Identical to BB41531. Lecture is conducted in English. JTP G-course Online/Synchronous			Undergraduate Program of International Social Studies
BE22401	Transnational Social Policy	2.0	2 - 4	Fall/AB	Thu,1,2		Uranio Edson Ioshiagui	Globalization has brought many changes in social life, including increasing flows of financial resources, goods and persons. Among the new challenges these changes pose to governments and civil society is the need to create new social agendas and to develop social policies. The aim of this course is to discuss these challenges for the 21st Century from a transnational perspective.	Biennial Course (offered in odd years) Open in odd number years. Identical to BB11861 and BC11471. Lecture is conducted in English. JTP G-course	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22471	Globalization and Development	2.0	2 - 4	Fall/AB	Tue/Fri,2	3B402	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. There will be lectures, videos, discussions and debates on globalization theory, major development issues, politics in the developing world, and the impact of globalization on developing countries.	Identical to BC11351. Lecture is conducted in English. JTP G-course	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22501	Linguistic Anthropology	2.0	2 - 4	Spr/AB	Tue,1,2		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 lecture, 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. Enrollment will be limited to 100 students.	1限目のみ3A403教室で実施 Identical to BC11511. Lecture is conducted in English. Online(Asynchronous) JTP (former "Anthropological Linguistics")			Undergraduate Program of International Social Studies
BE22521	International Education	2.0	2 - 4	Spr/AB	Tue,3,4		Shibata Masako	This course invites both overseas and Japanese students. The major purpose of the course is to enable students to learn about issues and current trends in educational studies in international perspectives. It deals with themes, such as development, colonial legacy and global interaction, in education.	Identical to BC12241. Lecture is conducted in English. Hybrid or Others JTP リアルタイムとオンデマンド (録画視聴)			Undergraduate Program of International Social Studies
BE22551	Outline of Japanese Education	2.0	2 - 4	Fall/AB	Tue,3,4		Shibata Masako	This course is offered to students who are interested in the historical development of Japanese education. The course looks at the processes of the foundation of the Japanese education system and the formation of a modern state in Japan. Special reference is made to the past and present dimensions of patterns of the cross-national transfer of policy for education. Thus international and comparative perspectives are welcome throughout the course.	Identical to BC12251. Lecture is conducted in English. Hybrid or Others JTP リアルタイムとオンデマンド (録画視聴)			Undergraduate Program of International Social Studies
BE22821	History of Economic Thought	2.0	2 - 4	Fall/AB	Thu,5,6		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.	The course is conducted online for the fall semester on MS Teams system. Identical to BC16021. Lecture is conducted in English. JTP	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22851	Mathematical Economics	2.0	2 - 4	Spr/AB	Mon,5,6		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. Lecture is conducted in English. JTP	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22861	Health Economics	2.0	2 - 4	Spr/AB	Thu,5,6		Moges Abu Girma	Health Economics is an applied economic 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. JTP	△	It depends on decision of the class instructor	Undergraduate Program of International Social Studies
BE22871	Contemporary Issues in Developing Countries	2.0	2 - 4	Fall/AB	Fri,4,5		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 BC12121. Lecture is conducted in English. JTP			Undergraduate Program of International Social Studies
BE22901	Economic Development	2.0	2 - 4	Fall/AB	Thu,3,4	3A212	Mohammad Malek Abdul	This course gives an overview of modern development economics, i.e. economics of low-income, developing and emerging economies. The course will discuss key concepts and issues of economic development especially how tools of macroeconomics, microeconomics, econometrics, international trade, etc. are applied to understanding the problems of development, and how data and empirical evidence can shed light on conflicting views and questions about the process of development.	Identical to BC12091. Lecture is conducted in English. face-to-face			Undergraduate Program of International Social Studies
EB11851	Introduction to Plant Physiology	1.0	1, 2	Spr/AB	Thu,4	2B309	Kikuchi Akira, Iwai Hiroaki, Oguchi Taichi, Ono Michiyuki, Satoh Shinobu, Suzuki Takuya, Suzuki Iwante, Niura 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 stimulus.	Lecture is conducted in English. face-to-face Online(Asynchronous)	△	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	Wed,6	2B206,2H101,2C10,7,2C101,2B207	Wood Matthew Christopher, Shikawa Kaori, Okamoto Naoki, CascoRobles Martin Miguél, Suzuki Takuya	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 Lecture is conducted in English. Online/Synchronous face-to-face Online(Asynchronous)	△	CBS students only.	College of Biological Sciences
EB13114	Science Communication I	1.0	2	Fall/AB	Thu,2	2B412	Wood Matthew Christopher	Starting from the discussion, what is science, students will learn and discuss about what is a scientific method and what scientific communication is effective to fulfill the role of science in society. Through active class discussions and practical assignments, students will consider the relationship between science and society, and how science is communicated with the public.	for Students in Biology. Lecture is conducted in English. face-to-face	△	CBS students only.	College of Biological Sciences

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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
EB13124	Science Communication II	1.0	3	SprAB	Thu2		Wood Matthew Christopher	This course focus on the science communication as a tool of informal learning. Through active class discussions and practical assignments, students will discover how new and alternative media are providing greater opportunities for researchers to communicate their science.	For Students in Biology. Lecture is conducted in English. Online(Synchronous)	Δ	GIS students only.	College of Biological Sciences
EB50211	Plant Taxonomy I	1.0	2,3	SprAB	Fri2	2H101	Ishida Ken-ichiro	Diversity, classification, morphology, ultrastructure, life history and phylogeny of non-green algae – glaucophytes, rhodophytes, cryptophytes, chlorarachniophytes, euglenophytes, dinoflagellates, haptophytes, and stramenopiles.	Lecture is conducted in English. Biodiversity course. GloBE Course. Expected to attend all I, II, III through a year. JTP. Face-to-face. EG20211 credit holders are ineligible.	Δ	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	FallAB	Fri2	2H101	Nakayama Takeshi	Diversity, classification, morphology, ultrastructure, life history and phylogeny of green plants, including chlorophytes and land plants.	Lecture is conducted in English. Biodiversity course. Expected to attend all I, II, III through a year. JTP. Face-to-face. EG20211 credit holders are ineligible.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB59101	Protistology	1.0	2-4	FallC	Fri2,3	2H101	Ishida Ken-ichiro, Degawa Yosuke, Numata Osamu, Kuwayama Hidekazu, Miyamura Shinichi	Topics in protistology. Cellular evolution, cell biology, sex and reproduction, phylogeny and ecology of protists will be the subjects of this lecture.	Biodiversity course. JTP. Face-to-face. EG39101 credit holders are ineligible.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB59141	Vertebrate Morphology	1.0	2,3	FallC	Thu4,5	2B411	Wada Hiroshi, Tajima Yuko	The morphology of various vertebrates is compared and its evolutionary biological background is explained. In particular, the ancestors of vertebrates, diversity of jawless fish, fin morphology of teleosts, morphological evolution associated with terrestrialization, diversity of mammals, and evolution of marine mammals are explained from a comparative morphological viewpoint.	Biennially conducted in English (odd-number years) or Japanese (even-number years). Biodiversity course. Face-to-face.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB59151	Vertebrate Evolution	1.0	2-4	FallAB	Mon3	2B507	Irving Louis John	This course looks at the major transitions during vertebrate evolution, particularly focusing 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.	Lecture is conducted in English. Biodiversity course. GloBE Course. JTP. Face-to-face.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB60014	Programming I	1.0	2,3	FallAB	Thu1		Tokunaga(Toquenaga) Yukihiro	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. JTP. Online(Synchronous). EG20014 credit holders are ineligible.	Δ	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	SprAB	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. JTP. Face-to-face. EG22011 credit holders are ineligible.	Δ	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	SprAB	Mon2		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.	Identical to EG4121. Lecture is conducted in English. Computational Biology & Bioinformatics Course. GloBE Course. JTP. Online(Synchronous). Online(Asynchronous).	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB63141	Evolutionary Developmental Biology	1.0	2,3	FallAB	Mon2	2B411	Wada Hiroshi	This course will focus on how molecular evolution of the genome and evolution of the morphology are related. After learned about several kinds of molecular evolutionary processes, students will learn how the genome construct the 3D morphology during embryogenesis. Combining what they learned about molecular evolution and developmental biology, students will learn several topics where the morphological evolution is linked with the molecular evolution of genome.	Lecture is conducted in English. Computational Biology & Bioinformatics Course. JTP. Face-to-face.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB64021	Biometry II	1.0	2,3	FallAB	Fri3		Tokunaga(Toquenaga) Yukihiro	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.	Lecture is conducted in English. Computational Biology & Bioinformatics Course. JTP. Online(Synchronous). EG34021 credit holders are ineligible.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB64111	Theoretical Ecology	1.0	2,3	SprAB	Thu1		Tokunaga(Toquenaga) 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. JTP. Online(Synchronous). Online(Asynchronous). EG34111 credit holders are ineligible.	Δ	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	2C404	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.	Lecture is conducted in English. Computational Biology & Bioinformatics Course. Molecular and Cellular Biology Course. GloBE Course. JTP. Face-to-face. EB71131 or EG35131 credit holders are ineligible.	Δ	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	2H101	Niwa Ryoosuke, Kobayashi Satoru, Sasakura Yasunori, Yaguchi Shunsuke, HAYASHI YOSHIOKI, HAYASHI MAKOTO, Shimada Yuko, Okamoto Naoki	A goal of this course is to understand several important topics about animal developmental biology.	Watch 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. JTP. Face-to-face.	Δ	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	2H201	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. JTP. Face-to-face. EG22911 credit holders are ineligible.	Δ	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	2B411	Inaba Kazuo, Sasakura Yasunori, Yaguchi Shunsuke, Shiba Kogiku, Nakano Hiroaki, Wada Shigetaki, Kon Koetsu, Horie Takeo, Agostini Sylvain Leonard Georges	Lecture will provide several topics on marine organisms, including fertilization, oila 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 tell you about recent progress of their own research.	Lecture is conducted in English. Molecular and Cellular Biology Course. JTP. Face-to-face. EG32921 credit holders are ineligible.	Δ	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		SatoH Shinobu, Furukawa Jun, Miura Kenji, Irving Louis John, 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 viewpoints 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. JTP. Online(Synchronous). Online(Asynchronous). EG24111 credit holders are ineligible.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB74131	Plant Physiology II	1.0	2,3	FallAB	Fri1		Iwai Hiroaki, Suzuki Takuya	This lecture introduces several important topics for your further understanding of plant physiology, which includes recent advances in the research of vegetative and reproductive development, and symbiosis with microorganisms in higher plants.	Lecture is conducted in English. Molecular and Cellular Biology Course. JTP. Online(Synchronous). Online(Asynchronous). 1-5 (1 Oct to 29-Oct): Hiraki Iwai, Online (Asynchronous). 6-10 (12 Nov to 17-Dec): Takuya Suzuki, Online(Synchronous).	Δ	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	2H101	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.	Lecture is conducted in English. Molecular and Cellular Biology Course. JTP. Face-to-face. EG24211 credit holders are ineligible.	Δ	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	2B411	Minoda Ayumi, Irving Louis John	Nitrogen metabolism, sulfur metabolism, metabolic regulatory mechanisms and the function of trace metals in cellular metabolism are main topics. The main topics for this course will be acclimation process of cellular and energy metabolisms response to the changes in intracellular and extracellular environments. It will be discussed about response and regulations of gene expression, enzymatic reaction, transport and signal transduction system.	Lecture is conducted in English. Molecular and Cellular Biology Course. JTP. Face-to-face. Who has credit of EB74231 or EG34231 or EG34221 is ineligible.	Δ	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	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. JTP. Face-to-face. EB82131 credit holders are ineligible.	Δ	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 rhythm, photoperiodic responses, organ size and responses to environmental stresses.	Lecture is conducted in English. Applied Biology course. JTP. Online(Synchronous). Online(Asynchronous). Who has credit of EB83111 or EG33111 is ineligible.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB83161	Biotechnology Literacy	1.0	2,3	SprC	Intensive		Watanabe Kazuo, Kikuchi Akira, Ono Michiyuki, Oguchi Taichi	Topics covering ethical, legal and social issues in life & environmental sciences.	Lecture is conducted in English. Applied Biology course. JTP. CDP. G-course. Online(Synchronous). Online(Asynchronous). Who has credit of EB83131 or EG23131 is ineligible.	Δ	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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 School/Colleges
EB09103	Seminar in Biology I: Field Guide to Snow Land Animals in Winter	1.5	1, 2	Spr Vac	Intensive	Sugadaira	Sato Yukiie, Yahata Kentsuke	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. 3/7-3/11 J/TP Students must be enrolled in Gakksenzai. face-to-face	△	Permission in advance by the course instructor required due to limited facilities etc.	College of Biological Sciences
EB09203	Seminar in Biology II: Guide to Seashore Animals and Plants	1.5	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. 2/28-3/4 J/TP Students must be enrolled in Gakksenzai. face-to-face	△	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	Thu4	2C410	Adachi Yasuhisa	土の物理学の内部に基づいてでは、熱力学の応用、電気二重層、分子間力、表面張力について、発展的に学ぶ。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」の同時履修が望ましい。「土の物理学」(EC2306)を履修済みの者は履修できない。For English Program Students, it is strongly recommended to take 「Elementary Applied Thermodynamics」(EG6049). Lectures are conducted in English. Lecture is conducted in English. Hybrid or Others			College of Agro-Biological Resource Sciences
EC31251	Cell Structure and Function	1.0	3	FallAB	Fri5		Taylor DeMar	Lectures and discussions will concentrate on cell structure and function as related to 1) membranes, 2) mitochondria, 3) chloroplasts, 4) intracellular transport, 5) cell communication, 6) cell cycle and 7) cell communities.	Use English Textbook identical to EG60031 Lecture is conducted in English. J/TP Hybrid or Others			College of Agro-Biological Resource Sciences
EC31261	Disease Vector Biology	1.0	3	FallAB	Fri1		Taylor DeMar	Agricultural production of both animals and plants is greatly affected by the transmission of diseases through arthropod vectors. This course will provide a better understanding of arthropod disease vectors and the diseases they transmit.	Identical to EG50291 Lecture is conducted in English. Hybrid or Others			College of Agro-Biological Resource Sciences
EC32111	Environmental Ecological Engineering	1.0	3	FallAB	Wed3		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 green house gas emission, 3) Impact of aquacultural industries on coastal environment including mangrove forest.	最新履修科目「環境」 identical to EG60111. Lecture is conducted in English. Hybrid or Others			College of Agro-Biological Resource Sciences
EC33651	Renewable energy and bioresource recycling technologies	2.0	3	FallAB	Fri3,4	2B508	Kitamura Yutaka, Neves Marcos Antonio, Zhang Zhen Ya, Lei Zhongfang, Noguchi Ryoza, Nakajima Mitsutoshi	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.	国立看護大学とのジョイント履修(一部履修免除)。「バイオマス資源循環工学」(EC3328)及び「グリーンエネルギー工学」(EC3304)を履修済みの者は履修できない。Lecture is conducted in English. Hybrid or Others			College of Agro-Biological Resource Sciences
EC33682	Introduction to Foreign Literature on Bio-Systems Engineering	2.0	3, 4	FallABC	Mon2	2B508	Kitamura Yutaka, Noguchi Ryoza, Neves Marcos Antonio, Tafajeh Ahamed, Nakajima Mitsutoshi	英語圏諸国システムにより京都大学、国立看護大学と合同で実施されている授業。生物資源工学(バイオシステムエンジニアリング)研究の動向と最新動向を紹介し、その際、海外分野のトピックに関する学生のプレゼンテーションやディスカッションを行う。この国際的なコミュニケーションの経験を通して、読解、発話、聴解、ディスカッションのスキルが強化される。	Lecture is conducted in English. distance learning face-to-face International students are limited to students who do graduate research in the environmental engineering course.			College of Agro-Biological Resource Sciences
EC34381	International Agricultural and Forestry Policies II	1.0	3, 4	SprC	by appointment		Shuto Hisato	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」(EC3408)を履修済みの者は履修できない。西暦奇数年定期開講。Open in odd number years. Identical to EG60621. Lecture is conducted in English. Work Experience faculty.			College of Agro-Biological Resource Sciences
EE11711	English for Geoscience 1A	1.0	2	SprAB	Thu6		Matsueda Mio, Sugihara Kaoru, Kurosawa Masanori, Harada Mariko, Yamanaka Tsutomu	地球学に関する英語の論文・専門書などを精読し読解力を養成する。また地球学における英語での表現法を学ぶ。	2クラスに分けて講義を行う。Lecture is conducted in English. Major required course Online(Synchronous)			College of Geoscience
EE11721	English for Geoscience 1B	1.0	2	FallAB	Thu6		Matsueda Mio, Sugihara Kaoru, Kurosawa Masanori, Harada Mariko, Yamanaka Tsutomu	地球学に関する英語の論文・専門書などを精読し読解力を養成する。また地球学における英語での表現法を学ぶ。	2クラスに分けて講義を行う。Lecture is conducted in English. Major required course Online(Synchronous)			College of Geoscience
FCC4121	Molecular Evolution I	1.0	4	SprAB	Mon2		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.	Identical to EB63111. Lecture is conducted in English. Computational Biology & Bioinformatics Course GIoBE Course J/TP Online(Synchronous) Online(Asynchronous)			College of Geoscience
FF20051	Technical English 1	1.0	3	SprAB	Fri1	3A312	AFALLA JESSICA PAULINE CASTILLO	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	FallAB	Fri3		Mannequin Cedric Romuald	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	FallBC	Fri6			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	SprAB	Fri3	3A207	Sellajay 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			College of Engineering Sciences
FF30061	Technical English 2	1.0	3	FallAB	Fri1		You Borwen	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 Online(Synchronous)			College of Engineering Sciences
FF30071	Technical English 3	1.0	3	FallBC	Fri6			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	SprAB	Wed1	3A403	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	FallAB	Wed3	3A209	TRAORE ABOLAYE	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	FallBC	Fri6		Tasaki Wataru	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	SprAB	Tue3	3A402	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	FallAB	Wed1		Shamin 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			College of Engineering Sciences
FF50071	Technical English 3	1.0	3	FallBC	Fri6		JUNG Mincherl	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
FH27041	Economic Dynamics	2.0	2-4	FallAB	Fri1,2		Turnbull Stephen John	経済動向は経済の動き方を論じる。市場安定性、経済成長論、ゲームにおける情報の動向。	公共システムエリア(2019年度以降入学者)・国際・公共システムエリア(2018年度以前入学者) Lecture is conducted in English. G-course Online(Asynchronous)			College of Policy and Planning Sciences
FH25051	International Trade	2.0	2-4	SprAB	Thu1,2		Naito Hisahiro	As the economy becomes more globalized, it is becoming necessary to study the basic mechanism of international trade and its impact on welfare. In this course, we first study the concept of comparative advantage and study why countries will be engaged in international trade. Then, we study the impact on welfare by using several models (The Ricardian, Heckscher-Ohlin and Specific Factor Model). Then, we study the monopoly model and its implication for international trade theory. In addition, we discuss the impact of international factor movement such as immigration and foreign direct investment.	Open in odd number years. Identical to BB41601, BC11411, and BE22271. Lecture is conducted in English. J/TP Hybrid or Others オンライン			College of Policy and Planning Sciences
FH27041	Economic Dynamics	2.0	2-4	FallAB	Fri1,2		Turnbull Stephen John	経済動向は経済の動き方を論じる。市場安定性、経済成長論、ゲームにおける情報の動向。	公共システムエリア(2019年度以降入学者)・国際・公共システムエリア(2018年度以前入学者) Lecture is conducted in English. G-course Online(Asynchronous)			College of Policy and Planning Sciences
FH25051	International Trade	2.0	2-4	SprAB	Thu1,2		Naito Hisahiro	As the economy becomes more globalized, it is becoming necessary to study the basic mechanism of international trade and its impact on welfare. In this course, we first study the concept of comparative advantage and study why countries will be engaged in international trade. Then, we study the impact on welfare by using several models (The Ricardian, Heckscher-Ohlin and Specific Factor Model). Then, we study the monopoly model and its implication for international trade theory. In addition, we discuss the impact of international factor movement such as immigration and foreign direct investment.	Open in odd number years. Identical to BB41601, BC11411, and BE22271. Lecture is conducted in English. J/TP Hybrid or Others オンライン			College of Policy and Planning Sciences

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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 School/Colleges
FJ2004	Linear Algebra I	3.0	1	Fall/ABC	Wed4,5	3A213	Tong Xiao-Min	This course introduces the basic ideas of vector, matrix and their operations and how to solve linear equations using matrices and vectors. The primary goal of this course is to understand the systems of linear equations, classifications of matrices and their applications. Although most of the problems can be solved without Mathematics, you are encouraged to solve the homework using the software once you know how to solve the problems. The course is a prerequisite for "Linear Algebra II".	Lecture is conducted in English. Hybrid or Others Online/Synchronous, and the recorded materials are available to the students who cannot attend the class synchronously.	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2004	Linear Algebra II	3.0	1	Spr/ABC	Wed4,5	3A214	Shamin Sonia	Following "Linear Algebra I", "Linear Algebra II" will also concentrate on the basic of linear algebra. Emphasis will be given to topics that will be useful in other disciplines, such as determinants, eigenvalues, positive definite matrices, Fourier series and the Fast Fourier Transform. Some homework problems may require you to use a program such as MATLAB or Mathematica, an important tool for numerical linear algebra. No previous programming experience is required.	Lecture is conducted in English. Hybrid or Others (i.e. Face-to-Face+Online (Asynchronous))	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2104	Calculus I	4.0	1	Fall/A Fall/AB Fall/C	Thu5,6 Tue1,2	3A311	Sano Nobuyuki	This course along with the subsequent course "Calculus II" introduces the basic tools of calculus and develops their technical competence. The primary goal of this course is to understand the concept and to build up a working ability of various mathematical manipulations such as derivatives, integrals, differential equations, parametric representations, polar coordinates, etc. This is efficiently achieved by visualization, numerical and graphical experimentations and, thus, students are required to be acquainted with Mathematics (or similar ones) during the course as working exercises and homework problems. This course as well as "Calculus II" provides a core and practical knowledge required for many scientific courses you shall take hereafter in the IDE program.	Lecture is conducted in English. Hybrid or Others Face-to-face, Synchronous and Asynchronous, Take-home exam	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2114	Calculus II	4.0	1	Spr/A Spr/AC Spr/B	Tue5,6 Thu4,5	3A311	Sano Nobuyuki	Following the "Calculus I", this course also introduces the basic tools of calculus and develops their technical competence, namely, differential equation, infinite series, vector calculus, spherical coordinate system, and partial derivatives etc. This is achieved again by visualization, numerical and graphical experimentations and, thus, students are required to be acquainted with Mathematics (or similar ones) during the course as working exercises and homework problems. This course as well as "Calculus I" provides a core and practical knowledge required for many scientific courses you shall take hereafter in the IDE program.	Lecture is conducted in English. Hybrid or Others Face-to-face, Synchronous and Asynchronous, Take-home exam	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2124	Introduction to Single-Variable Calculus I	2.0	1	Fall/A	Tue1,2 Thu5,6		Sano Nobuyuki	This course along with the subsequent courses "Introduction to Single-Variable Calculus II" and "Advanced Calculus" introduces the basic tools of calculus and develops their technical competence. The primary goal of this course is to understand the concepts and to build up a working ability of various mathematical manipulations such as derivatives and integrals. This is efficiently achieved by visualization, numerical and graphical experimentations and, thus, students are required to be acquainted with Mathematics (or similar ones) during the course for working exercises and homework problems. The present course provides a basic core and practical knowledge required for many courses in both natural and social sciences.	Lecture is conducted in English. Hybrid or Others Face-to-face, Synchronous and Asynchronous, Take-home exam	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2134	Introduction to Single-Variable Calculus II	2.0	1	Fall/BC	Tue1,2		Sano Nobuyuki	This course along with "Introduction to Single-Variable Calculus I" and "Advanced Calculus" introduces the basic tools of calculus and develops their technical competence. The primary goal of this course is to understand the concepts and to build up a working ability of various mathematical manipulations such as parametric equations, polar coordinates, infinite sequences and series. This is efficiently achieved by visualization, numerical and graphical experimentations and students are required to be acquainted with Mathematics (or similar ones) during the course for working exercises and homework problems. The present course provides a basic core and practical knowledge required for many courses in both natural and social sciences.	Lecture is conducted in English. Hybrid or Others Face-to-face, Synchronous and Asynchronous, Take-home exam	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2144	Advanced Calculus	4.0	1	Spr/A Spr/ABC	Tue5,6 Thu4,5		Sano Nobuyuki	Following "Introduction to Single-Variable Calculus I & II", this course introduces the basic tools of calculus and develops their technical competence, namely, differential equations, infinite series, vector calculus, curvilinear coordinate systems, and partial derivatives, etc. This is achieved by visualization, numerical and graphical experimentations and, thus, students are required to be acquainted with Mathematics (or similar ones) during the course as working exercises and homework problems. This course as well as "Introduction to Single-Variable Calculus I & II" provides a core and practical knowledge required for many courses in both natural and social sciences.	Lecture is conducted in English. Hybrid or Others Face-to-face, Synchronous and Asynchronous, Take-home exam	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2201	Probability and Statistics	2.0	1	Fall/AB Fall/C	Thu2 Thu1,2		Islam Monirul Muhammad	This course introduces basic of probability theory and statistics. This course will be mainly oriented to interpret physical problems in engineering and natural sciences through application of probability theory and statistics. Evaluation will be done through class quiz, homework on regular basis, and final examination.	Lecture is conducted in English. Hybrid or Others Face-to-face, Online(Asynchronous) and Online(Synchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2204	Electromagnetism I	3.0	2	Fall/ABC	Wed2,3	3A311	AFALLA JESSICA PAULINE CASTILLO	This course introduces the classical theory of electromagnetism at an undergraduate level. It begins with the fundamental laws and relations governing electrostatic force, electric field and electric potential. These quantities are calculated based on a given system of charges or a given charge distribution. The course also continues with work and energy in electrostatics, electric fields in matter (the concepts of polarization and linear dielectrics), as well as electric fields due to polarized objects.	Lecture is conducted in English. Hybrid or Others Face to face and some meetings online, recording the face-to-face classes, in case there are any students who are unable to be physically present.	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2214	Electromagnetism II	3.0	2	Spr/ABC	Tue2,3		You Borwen	This lecture starts from magnetostatics and compares with those properties of electrostatics. The electromagnetic induction is then revealed from the time-dependent variation of electric or magnetic field. All the principles of electric and magnetic fields are summarized in Maxwell's equations. Electromagnetic (EM) waves are finally presented to discuss the EM properties of dielectrics and metals.	Lecture is conducted in English. Only for IDE students Hybrid or Others	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ25101	Electrical Circuit	2.0	2	Fall/AB	Tue5,6	3A305	Osawa Hirotaaka, Akimoto Yutaro	A lecture is given on basic knowledge and analysis methods of electrical and electronic circuits, including linear passive elements, sinusoidal alternating current and complex number, impedances and admittance, resonant circuits, mutual induction circuits, bridge circuits, filters, general circuit theorems, and AC power.	Lecture is conducted in English. Hybrid or Others Face-to-face and Online(Asynchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2604	Mechanics I	2.0	1	Fall/AB	Mon5,6	3A213	Matsuda Akihiro	Primary goals of Mechanics I is to develop students' ability to (i) analyze problems in a simple and logical manner and (ii) apply basic principles to find their solutions. This course reviews such fundamental concepts as coordinate, time, mass, force and energy for a particle. The students are required to solve exercises and work on homework assignments.	Lecture is conducted in English. Online(Asynchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ2614	Mechanics II	2.0	1	Spr/AB	Mon5,6	3A213	Kawai Masamichi, Shoji Gaku	Following "Mechanics I", "Mechanics II" will just concentrate on the basis of mechanics. Emphasis will be given to topics that will be useful in other disciplines, such as systems of particles, kinematics and plane motion of rigid bodies and principles about analytical vector mechanics.	Lecture is conducted in English. Hybrid or Others Face-to-face and Online(Asynchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ26104	Thermodynamics I	2.0	2	Fall/AB	Tue3,4	3A311	Kaneko Akiko	Thermodynamics is one of the essential physics to discuss energy conservation for engineer in various fields. The aim of this lecture is to master the basics of the first and second laws of thermodynamics. The specific goal is to be able to appropriately express the first law of thermodynamics for the system, to be able to discuss changes in entropy based on the second law of thermodynamics, and to combine these basic matters. The heat efficiency of the heat engine can be derived.	Lecture is conducted in English. Hybrid or Others Face-to-face and Online(Asynchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ26114	Thermodynamics II	1.0	2	Spr/AB	Fri4		Kaneko Akiko, Kanagawa Tetsuya	Thermodynamics is one of the essential physics to discuss energy conservation for engineers in various fields. Based on the first and second laws of thermodynamics learned in "Thermodynamics I", we learn free energy and chemical potential as state quantities, and advanced matter of thermodynamics such as Maxwell relations and phase changes. The aim is to be able to understand these matters based on the major principles of the first law and the second law, and to cultivate the ability to reconstruct the learned matters from a new perspective by using them as tools.	Lecture is conducted in English. Hybrid or Others (face-to-face and Online(Asynchronous))	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ10001	Complex Analysis	3.0	2	Fall/ABC	Tue1,2	3A305	Islam Monirul Muhammad	This course introduces theories for functions of a complex variable. Students will acquire skill to use complex derivatives function, to have knowledge about integration in the complex plane, use of Cauchy integral theorem, power series, to evaluate complicated real integrals via residue calculus, etc.	Lecture is conducted in English. Hybrid or Others Face-to-face, Online(Asynchronous) and Online(Synchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ10101	Applied Mathematics	3.0	2	Spr/ABC	Thu1,2		Islam Monirul Muhammad	Applied mathematics will focus on the applications of mathematics in the field of engineering and physics. Students in this course will acquire problem-solving skills using applied knowledge in mathematics in vector analysis, complex variables, group theory, partial differential equation, Fourier series, Fourier and Laplace transforms.	Lecture is conducted in English. Hybrid or Others Face-to-face, Online(Asynchronous) and Online(Synchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ11001	Engineering Ethics	1.0	4	Fall/AB	Wed1		Kakeya Hideki	Not open in 2021.	Lecture is conducted in English. Hybrid or Others Face-to-face, Online(Asynchronous) and Online(Synchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ11101	Introduction to Interdisciplinary Engineering I	1.0	1	Fall/AB	Tue5	3A311	Maruyama Tautomhu, Yano Hiroaki, Yamamoto Kyosuke, Osawa Hirotaaka, Matsuda Akihiro, Date Hisashi, Kaneko Akiko, Takewaka Satoshi, Izawa Jun, Aki Hirohisa	This course discusses issues relevant to Engineering Systems and aims to help students grasp general concepts involved in this field of study.	Lecture is conducted in English. Hybrid or Others Face-to-face, Online(Asynchronous) and Online(Synchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ11111	Introduction to Interdisciplinary Engineering	1.0	1	Spr/AB	Tue1	3A214	Matsuishi Kiyoto	This course discusses issues relevant to Engineering Systems and aims to help students grasp general concepts involved in this field of study.	Lecture is conducted in English. Online(Asynchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12001	Modern Physics	3.0	2	Spr/ABC	Fri1,2		Islam Monirul Muhammad	The course will focus about overview of modern physics aiming at Engineering students. Students in this course will have introductory concept about wave-particle properties of electromagnetic radiation, quantum mechanics, properties of atom, molecular structure, statistical physics, and solid state physics.	Lecture is conducted in English. Hybrid or Others Face-to-face, Online(Asynchronous) and Online(Synchronous)	Δ	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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
FJ15001	System Modeling	2.0	2	SprAB	Wed1,2	3A214	Nguyen Triet Van	This course introduces fundamental concepts and techniques in building linear, time-invariant, state-space models of typical engineering systems, including translational and rotational mechanical systems, electrical and electronic circuits, thermal systems, fluid systems, and transducers. Analogies are drawn among these systems in different energy domains based on such concepts as the across and the through variables, as well as their energy storages and dissipaters. Response characteristics of standard first and second-order systems are explained, as a prelude to control system designs.	Lecture is conducted in English. Hybrid or Others The lecture is face-to-face learning, but it may be changed to online (asynchronous) due to the status of the Covid.	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ15101	Electronic Circuits	2.0	2	SprAB	Wed3,4		Maeda Yuka, Hassan Modar	Following "Electrical Circuit", this course introduces the fundamentals of electronic circuits, their components, and their analysis. Topics covered are: circuit abstraction method, two terminal elements, Kirchhoff laws, circuit analysis methods, digital abstraction, MOSFET switch, MOSFET amplifier, energy storage elements, operational amplifiers circuit and analysis, and diodes and semiconductors.	Lecture is conducted in English. Online(Asynchronous)	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12101	Statistical Physics I	1.0	3	FallAB	Wed5		Sano Nobuyuki	Statistical Physics as well as Quantum Mechanics provides the most important backbone of modern physics. In the present course, the basic principles of statistical mechanics are explained. After reviewing the basics of probability theory, the fundamental assumption of Statistical Mechanics, "principle of equal a priori probabilities" is introduced to construct statistical ensembles. The microscopic interpretation of entropy is explained so that the connection to thermodynamics becomes constructed.	Lecture is conducted in English. Hybrid or Others	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12111	Statistical Physics II	1.0	3	FallC	Wed4,5		Sano Nobuyuki	The fundamental concepts introduced in Statistical Physics I are applied to a few simple physical systems such as ideal gases. We derive the classical (Boltzmann) and quantum (Fermi-Dirac and Bose-Einstein) statistics from statistical ensembles. The fundamental principles underlying when extracting the maximum work from heat are clarified. The physical interpretation and connection between chemical reaction and Gibbs free energy are also discussed.	Lecture is conducted in English. Hybrid or Others	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12121	Statistical Physics III	1.0	3	SprAB	Wed5		Sano Nobuyuki	Following "Statistical Physics I & II", the fundamental principles and various statistical ensembles in Statistical Mechanics are applied to some important phenomena and models encountered in physics, namely phase transition and Landau phenomenological theory, binary mixture such as alloys, semiconductor statistics and quasi-Fermi potentials. A brief introduction to nonequilibrium statistical mechanics such as kinetic theory of gas, linear response, and Boltzmann transport theory is also explained.	Not open in 2021. Lecture is conducted in English.	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12201	Quantum Mechanics I	1.0	3	SprA	Tue/Thu2		Sharmin Sonia	After a brief historical review, we will cover the basics of quantum theory from the perspective of wave mechanics. This includes a discussion of the wavefunction, the probability interpretation, operators, and the Schrödinger equation. We will then consider simple one-dimensional scattering and bound state problems. Next, we will cover the mathematical foundations needed to do quantum mechanics from a more modern perspective. We will review the necessary elements of matrix mathematics and linear algebra, such as finding eigenvalues and eigenvectors, computing the trace of a matrix, and finding out if a matrix is Hermitian or unitary. We will then cover Dirac notation and Hilbert spaces. The postulates of quantum mechanics will then be formalized and illustrated with examples.	Not Open in 2021. Lecture is conducted in English. Hybrid or Others	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12221	Quantum Mechanics III	1.0	4	FallAB	Thu2		Sharmin Sonia		Not Open in 2021. Lecture is conducted in English.	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12301	Advanced Electromagnetism I	1.0	3	FallA	Fri1,2		Fujioaka Jun	This course introduces the fundamental concept of electromagnetic field and the Maxwell's equations. First, the fundamental laws of electromagnetic field in vacuum is explained and Maxwell's equation is derived. Next, the application of Maxwell's equation to the static electric/magnetic field is described.	Lecture is conducted in English. Hybrid or Others	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12311	Advanced Electromagnetism II	1.0	3	FallB	Thu4,5		JUNG Mincherl	Time-varying-time-harmonic electromagnetic fields and electrical properties of matter based on Maxwell's equations will be studied. Topics include: variable forms of Maxwell's eq., dielectric/magnetic-polarization/magnetization-permittivity/permeability, etc.	Lecture is conducted in English. Face-to-face	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12321	Advanced Electromagnetism III	1.0	3	FallC	Thu1,2		JUNG Mincherl	Wave equation, propagation, polarization, reflection, transmission, radiation, and scattering will be studied. Topics include: variable formed wave eq., transverse electromagnetic modes (in Lossy media), linear/circular polarization, different incidence issues in Lossy media with multiple interfaces, electromagnetic theorems and principles, etc.	Lecture is conducted in English. Face-to-face	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12401	Solid State Physics I	1.0	3	FallAB	Mon4		Kojima Seiji	We learn fundamental knowledge of solid state physics, i.e. Crystal structure, diffraction, reciprocal lattice, Brillouin zone, ionic crystals, elastic constants.	Lecture is conducted in English. Face-to-face	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12411	Solid State Physics II	1.0	3	FallBC	Fri4		Kojima Seiji	We learn fundamental knowledge of solid state physics, i.e. crystal structure, wave diffraction and reciprocal lattice, thermal motion of atoms in crystal, electronic states in crystal. The thermal properties, transport phenomena, phase transitions and so on, in solids, will be discussed for understanding advanced contents of materials science.	Lecture is conducted in English. Face-to-face	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ12421	Solid State Physics III	1.0	3	Fall Semester	Intensive		Kojima Seiji	We learn fundamental knowledge of solid state physics, i.e. band structure, semiconductor crystals, Fermi surfaces, metals.	Lecture is conducted in English. Face-to-face	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ15011	Control Systems I	2.0	3	FallAB	Wed3,4		Date Hisashi	This course introduces the control theory for linear systems based on state-space modeling. It covers the notion of stability, controllability, and observability, followed by the design of state feedback and observer. It also briefly covers the notion of frequency-domain techniques.	Lecture is conducted in English. Hybrid or Others	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ15021	Control Systems II	2.0	3	SprAB	Wed3,4		Mochiyama Hiromi		Not open in 2021. Lecture is conducted in English. Online(Asynchronous)	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
FJ16001	Fluid Dynamics I	3.0	3	FallABC	Mon1,2		Yokota Shigeru	This course covers the principal concepts and methods of fluid dynamics. Topics include basic laws of fluids, analysis of irrotational flow and vortices, introduction to compressible flows and viscous flows.	Lecture is conducted in English. Online(Asynchronous)	△	It depends on decision of the class instructor	Bachelor's Program in Interdisciplinary Engineering
GB13614	Computer Science in English A	2.0	3	SprAB	Mon1,2	3B302	Igarashi Yasuhiko, Nukada Akira	本講義は、基礎的知識の習得を目的とし、基礎的学習者に対して、英語学習の機会を提供し、学習に役立てるため、講義・演習を行う。	Lecture is conducted in English.			College of Information Science
GB13624	Computer Science in English B	2.0	3	FallAB	Wed5,6	3B202	Aranha, Claus, Ye Xiucal	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.	令和3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. Hybrid or Others			College of Information Science
GC55201	Human Information Interaction	2.0	3, 4	FallAB	Fri3,4		Joho Hideo	Human Information Interaction investigates the interaction between people and information. In this course, students deepen their understanding of elements that shape human information interaction, and apply the knowledge for designing novel interaction models, systems, or services.	Identical to GE62501 and GE73101. Lecture is conducted in English. G-course Online(Asynchronous) 履修メディアが創成学生はGC55201を、加履修システム専攻生はGE73101を、それ以外の学生はGE62501を履修すること。 GE60701「リフレクティブサイエンス」を履修済みの者は履修不可			College of Media Arts, Science and Technology
GC55301	Machine Learning and Information Retrieval	2.0	3, 4	FallAB	Tue1,2		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 GC52401 and GE72701. Lecture is conducted in English. G-course Online(Synchronous) 履修メディアが創成学生はGC55301を、加履修システム専攻生は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	FallC	Mon/Thu 3,4		Sarcar Sayan	This course introduces basic concepts in the theory and practice of Human-Computer Interaction (HCI). The course will help students acquiring knowledge about fundamental principles, techniques, and methods for designing, prototyping, and evaluating user interfaces. We will follow software system development approaches in order to design and evaluate real-world user interfaces.	Lecture is conducted in English. G-course Online(Asynchronous) 履修メディアが創成学生は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	SprAB	Mon4		Sarcar Sayan	This course aims to make students familiar with academic English language based work practices, and to apply that knowledge to write research project reports. This course is designated for undergraduate students and it will be based on project and classroom activities.	Lecture is conducted in English. Online(Asynchronous) 加履修システム専攻生対象			College of Knowledge and Library Sciences
GE50722	English for Specialized Subjects B-2	1.0	3	SprAB	Mon4		Sarcar Sayan	This course aims to make students familiar with academic English language based work practices, and to apply that knowledge to write research project reports. This course is designated for undergraduate students and it will be based on project and classroom activities.	Lecture is conducted in English. Online(Asynchronous) 加履修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	FallAB	Tue1,2		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 Online(Synchronous) 履修メディアが創成学生はGC55301を、加履修システム専攻生はGE72701を、それ以外の学生はGE62401を履修すること。			College of Knowledge and Library Sciences
GE62501	Human Information Interaction	2.0	3, 4	FallAB	Fri3,4		Joho Hideo	Human Information Interaction investigates the interaction between people and information. In this course, students deepen their understanding of elements that shape human information interaction, and apply the knowledge for designing novel interaction models, systems, or services.	Identical to GC55201 and GE73101. Lecture is conducted in English. G-course Online(Asynchronous) 履修メディアが創成学生はGC55201を、加履修システム専攻生はGE73101を、それ以外の学生はGE62501を履修すること。 GE60701「リフレクティブサイエンス」を履修済みの者は履修不可			College of Knowledge and Library Sciences
GE72601	Human-computer Interaction	2.0	3, 4	FallC	Mon/Thu 3,4		Sarcar Sayan	This course introduces basic concepts in the theory and practice of Human-Computer Interaction (HCI). The course will help students acquiring knowledge about fundamental principles, techniques, and methods for designing, prototyping, and evaluating user interfaces. We will follow software system development approaches in order to design and evaluate real-world user interfaces.	Identical to GC55301 and GE62401. Lecture is conducted in English. G-course Online(Synchronous) 履修メディアが創成学生はGC55401を、それ以外の学生はGE72601を履修すること。			College of Knowledge and Library Sciences
GE72701	Machine Learning and Information Retrieval	2.0	3, 4	FallAB	Tue1,2		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 Online(Synchronous) 履修メディアが創成学生はGC55301を、加履修システム専攻生はGE72701を、それ以外の学生はGE62401を履修すること。			College of Knowledge and Library Sciences
GE73101	Human Information Interaction	2.0	3, 4	FallAB	Fri3,4		Joho Hideo	Human Information Interaction investigates the interaction between people and information. In this course, students deepen their understanding of elements that shape human information interaction, and apply the knowledge for designing novel interaction models, systems, or services.	Identical to GC55201 and GE62501. Lecture is conducted in English. G-course Online(Asynchronous) 履修メディアが創成学生はGC55201を、加履修システム専攻生はGE73101を、それ以外の学生はGE62501を履修すること。 GE60701「リフレクティブサイエンス」を履修済みの者は履修不可			College of Knowledge and Library Sciences
HE40052	Research Seminar	4.0	3	FallBC	by request		Ohbayashi Norihiko	The students will select their theme from a variety of fields in medical sciences based on their own interests, and participate in research seminar and actual research activity in the laboratory.	Offered exclusively for students in the Medical Scientists Program Lecture is conducted in English.			College of Medical Sciences
HE40091	Topics in Medical Sciences II	1.0	4	SprBC	Tue4		Hisatake Koji, Ho Kiong	This course provides students with the opportunity to make presentations and discussions on medical science topics.	履修者数超過開講医科学専攻生限定とする。 Lecture is conducted in English.			College of Medical Sciences
HE40131	Clinical Hematology	2.0	3	FallABC	Intensive		Obara Naoshi	血液の組成、血液の生理的機能、血液の形成とその調節機構、造血系および造血幹細胞の増殖と分化、主要な血液疾患の発症機序とその診断のための血液学的検査法の種類と手法、血液の病態的診断(分子診断)、リンパ腫の病態的診断法を教授する。	Students should obtain permission of the instructor before taking this course. This course will not be provided in 2020.Basically online lessons Lecture is conducted in English. Online(Asynchronous) Online(Synchronous)	△	授業担当教授の判断による履修の前後となる履修の権利を有すること(単位取得不可)	College of Medical Sciences

Course List for Undergraduate program (Courses conducted in English)

as of 16 February 2021

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 School/Categories
HE40141	Coagulation and Fibrinolysis	1.0	3	Fall/ABC	Intensive		Obara Naoshi	血液の凝固・線溶系の生理的機構を概説し、その英語に準ずる血液凝固や血栓症に関する基本的検査法について概説する。凝固・線溶系の検査法の原理と手法、血小版の機能検査の原理と手法について概説する。	Students should obtain permission of the instructor before taking this course. Basically online lessons. Lecture is conducted in English. Online(Aynchronous)	△	授業担当教員の判断による履修の前提となる基礎学力を有することを事前確認する。	College of Medical Sciences
HE40151	Clinical Pathophysiology	2.0	3	Fall/AB	Intensive		Aita Yuichi	様々な疾患についての病態生理について詳細に概説する。またそれぞれの病態と各種検査検査の仕組みの関連について解説し、様々な病態に対して異なる血液検査項目の異常の診断を解説させる。患者からたらされる臨床検査の情報をいかに的確に診断や治療に応用したら良いか、基本的なものの考え方を十分理解させる。	Students should obtain permission of the instructor before taking this course. This course will not be provided in 2021. Lecture is conducted in English.	△	授業担当教員の判断による履修の前提となる基礎学力を有することを事前確認する。	College of Medical Sciences
W160352	English Exercises for Physical Education and Sport Sciences	1.0	4	Fall/AB	Tue5	SC301	Sato Takahiro	This course covers the common English terminology associated with research in sports sciences, and health sciences. Classes shall rely considerably on group work in providing opportunities for both written and (especially) oral communication.	face-to-face 授業「英語→科学の英語学習」では、国際論文誌の読み方、キーワード探し、研究論文構成、実践的なジャーナル、参考文献の引用方法を学ぶことを目的とする。また英語学習の中でプレゼンテーションの能力を向上させることを目的とする。課題は英語で行うが単語によっては、日本語で行う場合もある。			School of Physical Education, Health and Sport Sciences
YAL1012	Fundamental Studio Work: Graphic Tools	1.0	1, 2	Fall/C	Thu,5,6	Academic Computing Center &205,Academic Computing and Communications Center	MCLEOD Roderick	Adobe Creative Suiteの使用方法を5つの制作課題を通して学ぶ。Learn how to use Adobe Creative Suite through five production tasks.	人数制限あり Lecture is conducted in English. Work Experience faculty. Online(Aynchronous)	△	Cannot accept more students due to the limited number of educational equipment available	School of Art and Design
YAL1013	Fundamental Studio Work: Digital Photography	1.0	1 - 4	Spr/A	Tue,5,6	SC203	MCLEOD Roderick	デジタル一眼カメラを使用し、ライティングを含めた写真の撮影技法を学ぶ。Photoshopなどを使用した画像加工技術と、インクジェットプリンタによる出力技術の習得も併せて行う。Using a digital single lens reflex (DSLR) camera, learn photography techniques including lighting. We will also learn about image processing.	Required equipment (e.g. Digital SLR) will be explained in the first class. Lecture is conducted in English. Work Experience faculty. Hybrid or Others	△	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
YAX3112	Basic Seminar: English A-1	0.5	2 - 4	Spr/AB	Mon3		Baniani Mahshid	This course will provide students with opportunities to practice individual and group speech deliveries, as well as challenge their creativity through innovative projects.	英語で発表する能力を育成する。 This class will be held in English. Lecture is conducted in English. Online(Aynchronous)	△	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
YAX3122	Basic Seminar: English A-2	0.5	2 - 4	Fall/AB	Mon3		Baniani Mahshid	This course will provide students with opportunities to practice individual and group speech deliveries, as well as challenge their creativity through innovative projects.	英語で発表する能力を育成する。 This class will be held in English. Lecture is conducted in English. Online(Aynchronous)	△	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
YAX3212	Basic Seminar: English B-1	0.5	2 - 4	Spr/AB	Wed3		Baniani Mahshid	This course will provide students with opportunities to practice individual and group speech deliveries, as well as challenge their creativity through innovative projects.	英語で発表する能力を育成する。 This class will be held in English. Lecture is conducted in English. Online(Aynchronous)	△	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
YAX3222	Basic Seminar: English B-2	0.5	2 - 4	Fall/AB	Wed3		Baniani Mahshid	This course will provide students with opportunities to practice individual and group speech deliveries, as well as challenge their creativity through innovative projects.	英語で発表する能力を育成する。 This class will be held in English. Lecture is conducted in English. Online(Aynchronous)	△	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
YAX3232	Basic Seminar: English C-1	0.5	2 - 4	Spr/AB	Thu6		Baniani Mahshid	This course will provide students with opportunities to practice individual and group speech deliveries, as well as challenge their creativity through innovative projects.	英語で発表する能力を育成する。 This class will be held in English. Lecture is conducted in English. Online(Aynchronous)	△	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
YAX3242	Basic Seminar: English C-2	0.5	2 - 4	Fall/AB	Thu6		Baniani Mahshid	This course will provide students with opportunities to practice individual and group speech deliveries, as well as challenge their creativity through innovative projects.	英語で発表する能力を育成する。 This class will be held in English. Lecture is conducted in English. Online(Aynchronous)	△	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	Tue,2,3	GA208-1,GA208-2	MCLEOD Roderick	We will explore contemporary approaches to photographic practice through analogue and digital photomedia. You will acquire knowledge of processes and produce a photobook about one theme or topic of interest.	対面を中心とし、オンラインを使用して実施 Lecture is conducted in English. Work Experience faculty. Hybrid or Others			School of Art and Design
YBL2042	Workshops on Visual Design B	1.0	2	Fall/AB	Fri3		MCLEOD Roderick	We will learn how to shape ideas through practical visual design tasks.	Lecture is conducted in English. Work Experience faculty. Hybrid or Others	△	Depends on if there are enough facilities and educational equipment	School of Art and Design
YBN2301	Theory of Kansei Design	1.0	2	Spr/AB	Tue3	SC406	Lee Seung Hee	感性は、個人の異なる経験に基づいた心の働きであり、感情、感覚、運動、心算など人間の行動に関わる認知プロセスによって表される。感性科学を基盤とした感性情報、感性情報、センサシステムを用いた感性科学の学際的なジャーナル研究事例を紹介する。感性の構造は、Kanseiという学際的な国際化されており、グローバルな学際分野として発展する重要な意味を有する。感性情報の技術的応用における人間の認知能力を「思いやり」を通じた未来のデザインのあり方を考える。	2011年度までの「学デザインと認知科学」に相当。 Lectures are conducted in English if requested Work Experience faculty face-to-face	△	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
YBN2531	Kansei Information and Media Interaction I	1.0	3	Spr/AB	Thu3		Lee Seung Hee	私たちの経験は記憶に残され、新しい刺激に反応しながら融合し、より意味のある情報として進化していく。本授業では人間の感性の重要性を再認識し、感性の働きを情報として捉え新しい発想に活用する。認知科学の理論を学び、人間の感情的な行動を観察しながら、人間と情報との関わりを多様な状況に基づいて考える。専門性より、独自の多様性を重視し、経験に基づいた感性と感情、感性に働きかける要素を全て含んだダイナミックな実践方法を学ぶ。(Iでは、基礎的な理論と方法を学ぶ。IIでは人間の行動を観察し、メディアとして応用したインタラクションを学ぶ。)	2020年度までの「情報メディア論 I」に相当。旧科目履修者履修不可。総合研究棟D117で行う。 Lectures are conducted in English if requested face-to-face	△	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
YBN2541	Kansei Information and Media Interaction II	1.0	3	Fall/AB	Thu3		Lee Seung Hee	私たちの経験は記憶に残され、新しい刺激に反応しながら融合し、より意味のある情報として進化していく。本授業では人間の感性の重要性を再認識し、感性の働きを情報として捉え新しい発想に活用する。認知科学の理論を学び、人間の感情的な行動を観察しながら、人間と情報との関わりを多様な状況に基づいて考える。専門性より、独自の多様性を重視し、経験に基づいた感性と感情、感性に働きかける要素を全て含んだダイナミックな実践方法を学ぶ。(Iでは、基礎的な理論と方法を学ぶ。IIでは人間の行動を観察し、メディアとして応用したインタラクションを学ぶ。)	2020年度までの「情報メディア論 II」に相当。旧科目履修者履修不可。総合研究棟D117で行う。 Lectures are conducted in English if requested face-to-face	△	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
YBN2902	Workshops on Dynamic Interaction Design	1.0	2	Fall/AB	Tue3		Lee Seung Hee, Murakami Fumiaki	情報・プロダクト・メディアアートを融合したオブジェによるインタラクション型の体験型展示。センサによるインタラクティブな展示の素材の仕組みを利用したロボットによるインタラクティブな展示を同時に行う。	Lectures are conducted in English if requested hybrid or Others	△	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
YBX0011	English for Specialized Subjects 1	1.0	2 - 4	Spr/AB	Mon6		Baniani Mahshid	英米に関わる文脈の課題。	This class is in English. 英語で授業。Lecture is conducted in English. Online(Aynchronous)			School of Art and Design
YBX0021	English for Specialized Subjects 2	1.0	2 - 4	Fall/AB	Mon6		Baniani Mahshid	英米に関わる文脈の課題。	This class is in English. 英語で授業。Lecture is conducted in English. Online(Aynchronous)			School of Art and Design
YBX4712	Workshops on Environmental and Architectural Design	3.0	3	Spr/C, Sum Vac	Fri4-6		Watarai Kazuyoshi, Kajima Momoyo	環境・建築の各デザイン分野について、次世代環境施設に関する共同設計の演習を行う。	This class is in English. 英語で授業。Lecture is conducted in English. Work Experience faculty. Online(Synchronous)	△	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