Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remar ks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
1290011	Learning and Ethics of Research	1.0	1	FallAB	Wed2	3A213	Hideki Kakeya	This course introduces fundamental concepts related to learning and research activities in a university. from an ethics point of view. In particular, it includes the following topics: a dirinition of acience, research methodology, research misconduct, mentor and advisor, responsible authorship, peer review and publication, data management, collaborative research, conflict of interests, whistleblowing and obligation to protect the public.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	
1390121	Introduction to Life and Environmental Sciences	1.0	1	Sum Vac	Intens ive	2B309	DeMar Taylor	This course gives a broad overview of current topics and issues in the fields of Life and Environmental Sciences	For students in Interdisciplinary Program in Life and Environmental Sciences			
1A90081	Food and Forest	1.0	1, 2	FallAB	Mon2	2B507	Seung Won Kang	This course introduces orop plants, domestic animals and trees and their products in relation to culture, society, economy and environment.	JTP Lectures are conducted in English. JTP			
1F90011	Social nature	1.0	3, 4	SprAB	Fri3		Thomas Parkner	Understanding ocopied matural/environmental and human systems is fundamental to the quest for solariability. But, what is "nature" or mature. environment", or what are servironmental issues? In this lecture, mature, environment, and environmental issues are allocated as a social construct subject to changing perceptions. To bridge the gap between natural and social students, theories and concepts from both, natural sciences and social students, theories and concepts from both, natural sciences and social sciences, are presented, which are relevant for human-environment interaction research. Climate change as a current threat is discussed from the natural science perspective as well as from deply entrended social worldwise to explore a complex environmental problem from a cross-disciplinary perspective.	JTP			
2107173	Basic Physical Education Karate	0.5	1	FallAB	Thu1	1st Multi- Purpos e Dojo	Masaki Fumoto	The purpose of this class is to understand the relation between one's own mind and body, between one's opponent's mind and body, and their interaction, using basic Karats techniques. Basic Karats techniques, interaction, using basic Karats techniques basic for the state techniques of the state techniques and the state techniques with footwork, and Kats (Karats form), will be taught in this class.	I 実務経験牧員 elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyprical elducation II may not always be possible to take the desired courses, because there is a limit on the number of students.	
2108173	Basic Physical Education Gymnastics	0.5	1	FallAB	Thu1	Gymnas tics Stadiu m	Mariko Kanaya	Through the events of apparatus gymnastics and artistic gymnastics, students will acquire skills according to ability and understand about movements under the theme of "feel yourself".	I elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypisical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2110133	Basic Physical Education Japanese Archery	0.5	1	FallAB	Thu1	Japane se Archer y Traini ng Hall	Makinori Matsuo	In this class you will be able to learn the basic of Kyudo. While shouting on short and middle distance you will have a chance to learn about safety rules, be able to shoot quite well, and experience other parts of Kyudo, like compotition.	l elements by gender(equipment) G-course	Δ	Only students who want to obtain a teacher's license in dagan and who have not completed physical ducation ordelite can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2115173	Basic Physical Education Judo	0. 5	1	FallAB	Thu1	Judo Dojo	Hirotaka Okada	The purpose of this instruction is to learn fundamental skills of judo and to understand the fascination of judo through doing safety Randori with using some basic technique.	T 実務経験教員 elements by gender(contact) elements by gender(other) G-course 女子は 道希の下にTシャツを着用する こと	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypisical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2117133	Basic Physical Education Swimming	0. 5	1	FallAB	Thu1	Indoor Pool	Miwako Homma	Understanding and improving various swimming skills. Students will be experienced basic strokes, water polo,snorkeling, and importance and value of aquatic sports will be understood through the classes.	I 実務経験教員 elements by gender(wear) elements by gender(contact) elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hybrical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2123173	Basic Physical Education Dance	0.5	1	FallAB	Thu1	Dance Hall	Yonezawa Mayuko	In this class, learns how to use basic body of the dance and gets on various music and move a body. In addition, aims at the making of healthy body by yoga and stretch through a class.	l 実務経験教員 elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2140153	Basic Physical Education Fitness Training	0.5	1	FallAB	Thu1	2nd Traini ng Area	Hirokazu Matsuo	Emphasis will be on maintenance of good health and understanding of relationship between physical fitness and health promotion. Acquirement of methods of resistance training, jogging and stretching shall also be addressed for lifelong good health.	1 elements by gender(contact) G-course Details will be announced. 体力測定の評価に際して、男女で基準 値が異なる	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyvisial education oredits can register. It may not a lways be possible to take the desired courses, because there is a limit on the number of students.	
2143173	Basic Physical Education Bodywork	0. 5	1	FallAB	Thu1	2nd Multi- Purpos e Dojo	Toshihiro Kato	We will do the following exercises. (1) Core Training (2) Stretching (3) Self-massage (4) Breathing technique Sharpen your senses. Increases resistance to stress. And enjoy the exercise itself.	 G-course 男女の区別なくペアワーク(トレーニ ングの補助やスポーツマッサージ等) が行われることがあります。ペアワー クが苦手な力は単数で行うことができ ます。ペアの組み力は自由です。奇数 の場合は3人組になることもありま す。	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypisical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2148173	Basic Physical Education Refresh Movements	0. 5	1	FallAB	Thu1	Gymnas tics Area	Aya Horiguchi	In this lesson, you learn mind and body through symmastics and acquire knowledge and fundamental exercise ability to enjoy sports with friends. Through this lesson, we will outivate a pirit of challenge by challenging the activities that have never experienced, such as "G-ball" 'giant-symmastics ball and "Muel gymmastics" sym wheels movement. The teacher who is Japanese national athlete in Wheel gymmastics will take classes by taking advantage of their experiences.	 実務経験教員 elements by gender(contact) elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyvisial education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2113173	Basic Physical Education Soccer	0. 5	1	FallAB	Thu1	1st Soccer Field	Masaaki Koido	Understand the principles of soccer in order to play and enjoy games. While acquiring the basic skills of "Ball control". "Passing" and "dibbing" the ball. learn the importance of moving in cooperation with the teammate.	II 実務経験教員 alements by gender(sontact) alements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2121173	Basic Physical Education Softball	0. 5	1	FallAB	Thu1	Baseba II Field	Takeshi Kaneda	Emphasis will be on fundamentals, and the way to enjoy playing game. Understanding and improvement of health and fitness shall also be addressed by playing softball.	II elements by gender(contact) elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypisial education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	

Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remar ks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
2122153	Basic Physical Education Table Tennis	0.5	1	FallAB	Thu1	3rd Gymnas ium	Yuki Nonaka	Learn the basic techniques of table termis from its essence, while at the same time depending the understanding of the novements applicable to different types of sports. Through various practice methods and minigames. Learn also about relevant aspects of sports, such as communications and sportsmanship.	Indoor shoose should be brought without fail. Be sure to wear sportswar. Accept experienced students. However, the level of this class is targeted at beginners. 実務経験教員 elements by gender(contact) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2125173	Basic Physical Education Tennis	0. 5	1	FallAB	Thu1	Taigei Tennis Hardco urts	Hajime Ohmori	Acquiring fundamental skills of tennis. Manner, rule, and values of sports shell also be learned through playing tennis.	ll elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not compited physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2135153	Basic Physical Education Badminton	0.5	1	FallAB	Thu1	1st Gymnas ium	Chika Tanifuji	Understanding the principles of badminton in order to play and enjoy games. Nistory, manner, rule, and values of sports shall also be learned through playing games.	II elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2136193	Basic Physical Education Volleyball	0. 5	1	FallAB	Thu1	Volley ball Gymnas ium	Nakaba Akiyama	This course is designed to learn fundamental skills (pass, serve, game play), rules, and team work.	11 G-course	۵	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2137133	Basic Physical Education Handball	0. 5	1	FallAB	Thu1	Handba II Field	Eiko Yamada	Learn a way of the situation solution in individuals, and the group. In addition, develop ability for coordination, through various movements with ball.	ll elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2141133	Basic Physical Education Flag Football	0. 5	1	FallAB	Thu1	SEKISH O Field	Tsuyoshi Matsumoto	Through a modified game from flag football, we learn a basic skill and tactics. Furthermore, we deepen understanding about the communication and leadership for team activity.	11 elements by gender (special rule/pair/team) 6-course 各チームの牙女数が均等になるように 男女混合チームを作ります。ゲームに おいては、女子特別ルールを放定し、 全員が戦略的にゲームに関与できるよ う工夫を行います。	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2107173	Basic Physical Education Karate	0. 5	1	FallAB		1st Multi- Purpos e Dojo	Masaki Fumoto	The surpose of this class is to understand the relation between one's one mind and body, between one's capopent's similar doaly and their interaction, using basic Karate techniques. Basic Karate techniques, including suitable breaching methods, coordination of Karate basic techniques with footwork, and Kata (Karate form), will be taught in this class.	1 実務経験教員 elements by gender(contact) G-course	۵	In ly students who want to obtain a teacher's licence in Jagma and who have not completed physical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2108173	Basic Physical Education Gymnastics	0.5	1	FallAB	Thu1	Gymnas tics Stadiu m	Mariko Kanaya	Through the events of apparatus gymnastics and artistic gymnastics, students will acquire skills according to ability and understand about movements under the theme of "feel yourself".	I ements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not a leays be possible to take the desired courses, because there is a limit on the number of students.	
2110133	Basic Physical Education Japanese Archery	0. 5	1	FallAB	Thu1	Japane se Archer y Traini ng Hall	Makinori Matsuo	In this class you will be able to learn the basic of Kyudo. While shorting on short and middle distance you will have a chance to learn about safety rules, be able to short quite well, and experience other parts of Kyudo, like competition.	I elements by gender(equipment) G-course	۵	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2115173	Basic Physical Education Judo	0. 5	1	FallAB	Thu1	Judo Dojo	Hirotaka Okada	The purpose of this instruction is to learn fundamental skills of judo and to understand the fascination of judo through doing safety Randori with using some basic technique.	1 実務経験教員 elements by gender(contact) elements by gender(other) G-course 女子は 道着の下にIシャツを着用する こと	۵	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2117133	Basic Physical Education Swimming	0.5	1	FallAB	Thu1	Indoor Pool	Miwako Homma	Understanding and improving various awimming skills. Students will be experienced basis ostrokes, water polo, sonkeling, and importance and value of aquatic sports will be understood through the classes.	1 実務経験教員 elements by gender(wear) elements by gender(contact) elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2123173	Basic Physical Education Dance	0. 5	1	FallAB	Thu1	Dance Hall	Yonezawa Mayuko	In this class, learns how to use basic body of the dance and gets on various music and move a body. In addition, aims at the making of healthy body by yoga and stretch through a class.	1 実務経験教員 elements by gender(contact) G-course	۵	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2140153	Basic Physical Education Fitness Training	0.5	1	FallAB	Thu1	2nd Traini ng Area	Hirokazu Matsuo	addressed for lifelong good health.	1 elements by gender(contact) G-course Details will be announced. 使力測定の評価に際して、男女で基準 値が異なる	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2143173	Basic Physical Education Bodywork	0.5	1	FallAB	Inui	2nd Multi- Purpos e Dojo		The will do the following exercises. (1) Gore Training (2) Stretching (3) Self-massage (0) Breathing technique Sharpen your senses. Increases resistance to stress. And enjoy the exercise itself.	1 中Course 男女の区がなくペアワーク(トレーニ ングの場胎やスポーツマッサージ等) が行われることがあります、ペアワー か活手れたれ様地で行うことができ ます。ペアの組み方は自由です。奇数 の場合は3人組になることもありま す。	Δ	Only students who want to obtain a teacher's license in Jagma and who have not completed physical education orrelits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2148173	Basic Physical Education Refresh Movements	0.5	1	FallAB	Thu1	Gymnas tics Area	Aya Horiguchi	In this lesson, you learn mind and body through gymmatics and acquire knowledge and fundamental exercise ability to enjoy sports with friends. Through this lesson, we will cultivate a spirito of challenge by challenging the activities that have never experienced, such as "d-bell" "giant-gymmatics ball and "Mheel gymmatto"; gym wheels movement. The teacher who is Japanese national athlete in Wheel gymmastics will take classes by taking advantage of their experiences.	1 東務發統教員 elements by gender (contact) elements by gender (special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	

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2113173	Basic Physical Education Soccer	0.5	1	FallAB	Thu1	1st Soccer Field	Masaaki Koido	Understand the principles of soccer in order to play and enjoy games. While acquiring the basic skills of "Ball contol", "Ressing" and "dlibbling" the ball. learn the importance of moving in cooperation with the teammate.	II 東孫経聴教員 elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in dapan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2121173	Basic Physical Education Softball	0.5	1	FallAB	Thu1	Baseba II Field	Takeshi Kaneda	Emphasis will be on fundamentals, and the way to enjoy playing game. Understanding and improvement of health and fitness shall also be addressed by playing softball.	II elements by gender(contact) elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyrical elducation aredits can register. It may not larges be possible to take the desired courses, because there is a limit on the number of students.	
2122153	Basic Physical Education Table Tennis	0.5	1	FallAB	Thu1	3rd Gymnas ium	Yuki Nonaka	Learn the basic techniques of table tennis from its essence, while at the same time desponing the understanding of the novements applicable to different types of sports. Through various practice methods and minigames. Learn also about relevant aspects of sports, such as communications and sportsmanship.	Indoor shouse should be brought without fail. Be sure to wear sportsmar. Account experienced students. However, the level of this class is targeted at beginners. 采務経教育 elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Agaan and who have not completed physical education ordits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2125173	Basic Physical Education Tennis	0. 5	1	FallAB	Thu1	Taigei Tennis Hardco urts	Hajime Ohmori	Acquiring fundamental skills of tennis. Manner, rule, and values of sports shall also be learned through playing tennis.	II elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation orgenits can register. Description of the students of the students the desired courses, because there is a limit on the number of students.	
2135153	Basic Physical Education Badminton	0.5	1	FallAB	Thu1	1st Gymnas ium	Chika Tanifuji	Understanding the principles of badminton in order to play and enjoy games. History, manner, rule, and values of sports shall also be learned through playing games.	II elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2136193	Basic Physical Education Volleyball	0.5	1	FallAB	Thu1	Volley ball Gymnas ium	Nakaba Akiyama	This course is designed to learn fundamental skills (pass. serve, game plsy), rules, and team work.	II G-course	۵	Only students who want to obtain a teacher's license in dapan and who have not completed physical education ordits can register. It may not always be possible to take the desired course, because there is a limit on the number of students.	
2137133	Basic Physical Education Handball	0.5	1	FallAB	Thu1	Handba II Field	Eiko Yamada	Learn a way of the situation solution in individuals, and the group. In addition, develop ability for coordination, through various movements with ball.	II elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2141133	Basic Physical Education Flag Football	0. 5	1	FallAB	Thu1	SEKISH O Field	Tsuyoshi Matsumoto	Through a modified game from flag football, we learn a basic skill and tactics. Furthermore, we deepen understanding about the communication and leadership for team activity.	11 elements by gender (special rule/pair/team) G-course 各チームの男女数が均等になるように 男女混合チームを作ります。ゲームに おいては、女子特別ルールを設定し、 全員が戦略的レゲームに関与できるよ う工夫を行います。	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education ordeliss an register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2211203	Applied Physical Education Kendo	0.5	2	SprAB	Fr i 2		Takahiro Nabeyama	To begin practicing with Kendo armor also known as bogu to basic fundamental level, as well as learning Kendo etiquette to improve ones mind and body.	elements by gender(equipment) elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not compieted hyvisial education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2213243	Applied Physical Education Soccer	0.5	2	SprAB	Fri2		Masaaki Koido	Understand the fundamentals of football skills / tactics. Also, learn what kind of scene of the game it is effective to use them, and realize the enjoyment of the game more.	実務経験教員 alements by gender(social elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation credits can register. It may not laways be possible to take the desired courses, because there is a limit on the number of students.	
2214203	Applied Physical Education Shooting Sports	0.5	2	SprAB	Fri2		Hitoshi Saga	To know self-condition of physical fitness and mental health with the individual or group activities on Archery and Kyudo (japamease traditional style of bow should, and also to accept the various values of sport or its cultural aspects.	Both of Archery and Kyudo are played outdoor field. Lefty player is available on Archery but not on Kyudo. G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation aredits can register. It may not lavays be possible to take the desired courses, because there is a limit on the number of students.	
2215223	Applied Physical Education Judo	0.5	2	SprAB	Fr i 2		Hiroaki Hiraoka	Emphasis will be on understandings of characteristics of Judo. types of waza, and history of Judo. Let's enjoy safe randori and game by acquiring basic waza!	elements by gender(contact) elements by gender(other) G-coursa 女子は 道着の下にTシャツを着用する こと	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elucation oredits can register. Itay not always, boossible to take the desired courses, because there is a limit on the number of students.	
2216263	Applied Physical Education Jog and walk	0. 5	2	SprAB	Fr i 2		Yasushi Enomoto	Allows students to develop/improve their ability to enjoy sports and enhances their health promotion through walking and jogging.	G-course Need running shoes	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation credits can register. It may not lavays be possible to take the desired courses, because there is a limit on the number of students.	
2217263	Applied Physical Education Swimming	0.5	2	SprAB	Fr i 2		Hideki Takagi	Understanding and improving self health and fitness with swimming. Various types of water sports will be achieved, swimming, water polo, diving, skin diving, synchronized swimming, and swim with olothes on.	elements by gender(wear) elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypisical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2221263	Applied Physical Education Softball	0.5	2	SprAB	Fri2		Takaaki Nara	We will deepen our understanding of softball techniques and strategies, and hone our skills so that we may succeed on the playing field. Both in practice and regular season games, we will learn teamwork, cooperation and leadership.	elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyrical elducation aredits can register. It may not lavay be possible to take the desired courses, because there is a limit on the number of students.	

Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
2222263	Applied Physical Education Table Tennis	0.5	2	SprAB	Fri2		Shintaro Ando	Deepen your knowledge of sports activities. Through a ungene practice method, understanding the technical skills related to various sports soenes by pursuing one sport more deeply. Also work on applied mini-games.	Indoor shoose should be brought without fail. Be sure to wear sportsmear. Account experienced students. However, the level of this class is targeted at beginners. 实務経教教 elements by gender (contact) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2233203	Applied Physical Education New Sports	0.5	2	SprAB	Fri2		Taketoshi Saito	"New sports" subjects are not to implement major sports, but to experience various sports events. For example, Flying Disc, Warking, Indiaca. G-ball,Ground Golf,Petanque, Long jump rope, and so on.	Classroom will be announced later. G-course Details will be announced.	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hysical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2234263	Applied Physical Education Basketball	0.5	2	SprAB	Fri2		Yoshihito Nakaso	Acquiring fundamentals, understanding offense and defense principles and team play from both playing and coaching perspective. Health, fitness, and akills of humping, running, and throwing shall also be enhanced for enjoyable lifetime by playing basketball.	elements by gender(equipment) elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have rowing not spitstr license protect It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2240263	Applied Physical Education Fitness Training	0.5	2	SprAB	Fri2		Toshinobu Kawai	Understand the significance of health and physical fitness, and do training with a combination of resistance training and aerobic exercise.	実務経験教員 elements by gender(other) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education ordits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2241263	Applied Physical Education Flag Football	0.5	2	SprAB	Fri2		Hirokazu Matsuo	We understand the tactical knowledge and skill of flag football through a passing game and learn the strategy depending on the situation of the team practically.	6-course Details will be announced.	۵	Only students who want to obtain a teacher's license in Agam and who have not completed physical education ordeliss can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2245223	Applied Physical Education Outing Sports	0.5	2	SprAB	Fri2		Akihiro Sakamoto	The goals of this class are 1) to acquire the basic akills for outdoor group activity: initiative games. 2) to understand the knowledge of that, 3) to acquire the ability of problem solving, and to gain the insight for self, other and natural environment through the outdoor activity. The class of Spring AB is held in the Yasei no Nori.	elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2248243	Applied Physical Education Refresh Movements	0.5	2	SprAB	Fri2		Kiyonao Hasegawa	Exercise bouncing in the Swiss ball.Exercise to rotation by the wheel gymmastics. Through a new experience, to refresh the mind and body.	elements by gender(contact) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. possible to take the describution provides the teacher the describution of students.	
2211213	Applied Physical Education Kendo	0.5	2	FallAB	Fri2	Kendo Dojo	Takahiro Nabeyama	To wear the Kendo armor or bogu, being able to perform techniques where you strike based on your opponents reaction and to become in sync with your opponent to improve the mind and body.	elements by gender(equipment) elements by gender(contact) elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2213253	Applied Physical Education Soccer	0.5	2	FallAB	Fri2	1st Soccer Field	Masaaki Koido	In addition to the technique of handling the ball itself, understand the movement when not holding a ball. Improve the ability to enjoy haggiing with opponents in the game.	実務経験教員 elements by gender(social elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elucation credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2214213	Applied Physical Education Shooting Sports	0.5	2	FallAB	Fri2	Archer y Traini ng Hall	Hitoshi Saga	To know self-condition of physical fitness and mental health with the individual or group activities on Archery and Kyudo (japamease traditional style of bow shouling), and also to accept the various values of sport or its cultural aspects.	Both of Archery and Kyudo are played outdoor field. Lefty player is available on Archery but not on Kyudo. G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not airway be possible to take the desired courses, because there is a limit on the number of students.	
2215233	Applied Physical Education Judo	0.5	2	FallAB	Fri2	Judo Dojo	Hiroaki Hiraoka	Emphasis will be on understandings of characteristics of Judo. types of waza, and history of Judo. Let's enjoy safe randori and game by acquiring basic waza!	elements by gender(contact) elements by gender(other) G-course 女子は 道着の下にTシャツを着用する こと	۵	Bnly students who want to obtain a teacher's license in Japan and who have not completed hypical eluduation oredits can register. It may not alreays be possible to take the desired courses, because there is a limit on the number of students.	
2216273	Applied Physical Education Jog and walk	0.5	2	FallAB	Fri2	Athlet ic Field	Yasushi Enomoto	Allows students to develop/improve their ability to enjoy sports and enhances their health promotion through walking and jogging.	G-course Need running shoes	۵	Only students who want to obtain a teacher's license in Jagma and who have net completed physical education oredits can register. It may not always he possible to take the desired courses, because there is a limit on the number of students.	
2217273	Applied Physical Education Swimming	0.5	2	FallAB	Fri2	Indoor Pool	Hideki Takagi	Understanding and improving self health and fitness with swimming. Various types of water sports will be achieved, swimming, water polo, diving, skin diving, synchronized swimming, and swim with clothes on.	elements by gender(wear) elements by gender(contact) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical eluduation oredits can register. Donosible to take the desired scases, because there is a limit on the number of students.	
2221273	Applied Physical Education Softball	0.5	2	FallAB	Fri2	Baseba II Field	Takaaki Nara	We will deepen our understanding of softball techniques and strategies, and hone our skills so that we may succeed on the playing field. Both in practice and regular season games, we will learn teamwork, cooperation and leadership.	elements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyvical elducation credits can register. It may not lavary be possible to take the desired courses, because there is a limit on the number of students.	
2222273	Applied Physical Education Table Tennis	0.5	2	FallAB	Fri2	3rd Gymnas ium	Shintaro Ando	Along with the deepening of knowledge on sports or time, it enhances the ability to enjoy the results of activities. After understanding techniques related to various sports scenes, practice in a variety of forms together with games and technical encroises, and develop a free idea about game sports.	Indoor shoose should be brought without Fail. Be sure to wear sportsmar. Account experienced this class wever. the level of this class wever. the level of beginners. Europeded at beginners. By gender (contact) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elucation the start of the start of the start of the line start of the start of the start of the start the desired ourses. because there is a limit on the number of students.	

Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remar ks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
2233213	Applied Physical Education New Sports	0.5	2	FallAB	Fri2		Taketoshi Saito	"New sports" subjects are not to implement major sports, but to experience various sports events. Various sports events are Flying Diso, G-ball Grand BCI (Petanue, binversal-hockey. Bound Tennis, Double Dutch, Kin-Ball, etc. and so on.	Classroom will be announced later. G-course Details will be announced.	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2234273	Applied Physical Education Basketball	0.5	2	FallAB	Fri2		Yoshihito Nakaso	Acquiring fundamentals, understanding offense and defense principles and team play from both playing and coaching perspective. Health, fitness, and skills of jumping, running, and throwing shall also be enhanced for enjoyable lifetime by playing basketball.	elements by gender(equipment) elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypiscal education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2240273	Applied Physical Education Fitness Training	0.5	2	FallAB	Fri2	2nd Traini ng Area	Toshinobu Kawai	Understand the significance of health and physical fitness, and do training with a combination of resistance training and aerobic exercise.	実務経験教員 elements by gender(other) G-course	۵	hely students who want to obtain a teacher's licence in Jagma and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2241273	Applied Physical Education Flag Football	0.5	2	FallAB	Fri2	SEKISH O Field	Hirokazu Matsuo	日本フラッグフットボール協会公式規則に準じたゲームを通して、フラッグフッ トボールに関する戦術的知識や技能の実践力を高め、ゲームパフォーマンスの向 上を目指す。	Details will be announced.	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2245233	Applied Physical Education Outing Sports	0.5	2	FallAB	Fri2		Akihiro Sakamoto	The class of Fall AB use Canadian cance as the teaching materials. The goals of this class are 11b acquire the basic skills for outdoor group activity.21c understand the knowledge of that. 31ca acquire the ability of problem solving, and to gain the insight for self, other and natural environment through the Canadian cance. The class is held in Lake Amakubo Ike.	G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2248253	Applied Physical Education Refresh Movements	0.5	2	FallAB	Fri2	Gymnas tics Area	Kiyonao Hasegawa	Exercise bouncing in the Swiss ball.Exercise to rotation by the wheel gymnastics. Through a new experience, to refresh the mind and body.	elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2207243	Applied Physical Education Karate	0.5	2	SprAB	Thu2		Masaki Fumoto	The purpose of this class is to understand the relation between one's own mind and body, between one's opponent's mind and body, and their interaction, using basic Karate techniques. Basic Karate techniques, including suitable breakting methods, coordination of Karate basic techniques with footwork. Kata, and Kumite will be taught in this class.	実務経験教員 eiements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2214243	Applied Physical Education Shooting Sports	0.5	2	SprAB	Thu2		Hitoshi Saga	To know self-condition of physical fitness and mental health with the individual or group activities on Archery and Kyudo (japanesse traditional style of bow shooting), and also to accept the various values of sport or its cultural aspects.	Both of Archery and Kyudo are played outdoor Field. Lefty player is available on Archery but not on Kyudo. G-course	Δ	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2215243	Applied Physical Education Judo	0.5	2	SprAB	Thu2		Koji Komata	understanding the princeple of the Judo techniques and lean the martial arts through experience.	elements by gender(contact) elements by gender(other) G-course 女子は 道者の下にTシャツを着用する こと	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2217223	Applied Physical Education Swimming	0.5	2	SprAB	Thu2		Miwako Homma	Understanding swimming techniques and improving swimming skills. Learning various aucit skills like basic swimming. Japanese traditional swimming, synchronised swimming, water polo, life saving and snorkeling etc.	実務経験教員 eiements by gender(wear) eiements by gender(contact) eiements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2221243	Applied Physical Education Softball	0.5	2	SprAB	Thu2		Takeshi Kaneda	Emphasis will be on fundamentals, and the way to enjoy playing game. Understanding and improvement of health and fitness shall also be addressed by playing softball.	elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Jagan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2222203	Applied Physical Education Table Tennis	0.5	2	SprAB	Thu2		Yuki Nonaka	Deepen your knowledge of sports activities through table tennis. By using a unique practice method to deepen the pursuit of one type of sports, the students will understand the techniques related to various types of sports. Practice mini games as well.	実務経験教員 elements by gender(contact) G-course	۵	Only students who want to obtain a teacher's license in Agana and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2223243	Applied Physical Education Dance	0.5	2	SprAB	Thu2		Yonezawa Mayuko	In this class, learns how to use basic body of the dance and gets on various music and move a body. In addition, aims at the making of healthy body by yogs and stretch through a class.	実務経験教員 elements by gender(contact) G-course	۵	hely students who want to obtain a teacher's licence in Jagma and who have not completed physical education oredits can register. It may not always be possible to take the desired ourses, because there is a limit on the number of students.	
2225263	Applied Physical Education Tennis	0.5	2	SprAB	Thu2		Hajime Ohmori	Acquiring fundamental skills of ternis. Manner, rule, and values of sports shall also be learned through playing ternis.	G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have reading to the student of the student of reading soft patter lit may not always be possible to take the desired ourses, because there is a limit on the number of students.	
2234203	Applied Physical Education Basketball	0.5	2	SprAB	Thu2		Toshihiro Otaka	Learning Individual tactics (Beat the Defense & Get the Ball Offense). Understanding the characteristic of basketball, and Playing game with individual tactics.	elements by gender(equipment) elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	

Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remar ks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
2235203	Applied Physical Education Badminton	0.5	2	SprAB	Thu2		Chika Tanifuji	Understanding the principles of badminton in order to play and enjoy games. History, manner, rule, and values of sports shall also be learned through playing games.	alements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2236243	Applied Physical Education Volleyball	0.5	2	SprAB	Thu2		Nakaba Akiyama	This course is designed to learn fundamental skills (pass, serve, spike, block, game play), rules, basic strategies, and team work.	6-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elucation ordelits can register. possible to take the denoriargest, possible to take the denoriargest, possible to there is a limit on the number of students.	
2240243	Applied Physical Education Fitness Training	0.5	2	SprAB	Thu2		Hirokazu Matsuo	Emphasis will be on maintenance of good health and understanding of relationship between physical filtness and health promotion. Acquirement of methods of resistance training jogging and stretching shall also be addressed for lifelong good health.	alements by gender(other) G-course Details arill be announced 体力測定の評価に際して、男女で基準 値が異なる	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. I may not large be possible to take the desired courses, because there is a limit on the number of students.	
2241223	Applied Physical Education Flag Football	0.5	2	SprAB	Thu2		Tsuyoshi Matsumoto	We understand the tactical knowledge and skill of flag football through a passing game and learn the strategy depending on the situation of the team practically.	elements by gender (special rule/pair/team) G-course 各テームの男女数が均等になるように 男女混合テームを作ります。ゲームに おいては、女子特別レールを抱定し、 全員が戦略いゲームに関与できるよ う工夫を行います。	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hysical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2243243	Applied Physical Education Bodywork	0.5	2	SprAB	Thu2		Toshihiro Kato	We will do the following exercises. (1) Core Training (2) Stretching (3) Self-massage (4) Breathing technique. Sharpen your sense. Increases resistance to stress. And enjoy the exercise Itself.	G−course 男女の区別なくイアワーク(トレーニ ングの補助やスポーリマッサージ帯) かが始まな方は単数で行うことができ さず、、マクロ曲み方は自動です。奇数 の場合は3人種になることもありま す。	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elucation oredits can register. but de not elucation boosible to take the de not elucate because there is a limit on the number of students.	
2207253	Applied Physical Education Karate	0.5	2	FallAB	Thu2	1st Multi- Purpos e Dojo	Masaki Fumoto	The purpose of this class is to understand the relation between one's own mind and body, between one's opponnet's mind and body, and their interaction, using basic Karate techniques. Basic Karate techniques, including suitable breathing methods, coordination of Karate basic techniques with foctwork, Kata, and Kumite will be taught in this class.	実務経験教員 elements by gender(contact) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elucation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2214253	Applied Physical Education Shooting Sports	0.5	2	FallAB	Thu2	Archer y Traini ng Hall	Hitoshi Saga	To know self-condition of physical fitness and mental health with the individual or group activities on Archery and Kyudo (japamease traditional style of bow shouling), and also to accept the various values of sport or its cultural aspects.	Both of Archery and Kyudo are played outdoor field. Lefty player is available on Archery but not on Kyudo. G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation credits can register. It may not airway be possible to take the desired courses, because there is a limit on the number of students.	
2215253	Applied Physical Education Judo	0.5	2	FallAB	Thu2	Judo Dojo	Koji Komata	understanding the princeple of the Judo techniques and lean the martial arts through experience.	elements by gender(contact) elements by gender(other) G-course 女子は 遠着の下にTシャツを着用する こと	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2217233	Applied Physical Education Swimming	0.5	2	FallAB	Thu2	Indoor Pool	Miwako Homma	Understanding swimming techniques and improving swimming skills. Learning various auqtic skills like basic swimming, Japanese traditional swimming, synchronised swimming, water polo, life saving and snorkeling etc.	実務経験教員 alements by gender(wear) alements by gender(contact) alements by gender(special rule/pair/team) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not alreays be possible to take the desired courses, because there is a limit on the number of students.	
2221253	Applied Physical Education Softball	0.5	2	FallAB	Thu2	Baseba II Field	Takeshi Kaneda	Emphasis will be on fundamentals, and the way to enjoy playing game. Understanding and improvement of health and fitness shall also be addressed by playing softball.	elements by gender(contact) elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2222213	Applied Physical Education Table Tennis	0.5	2	FallAB	Thu2	3rd Gymnas ium	Yuki Nonaka	Upon deepening knowledge concerning sports activities and understanding techniques applicable to different types of sports, apply the acquired knowledge and kills to games and technical practices and develop free thinking on sports activities.	実務経験教員 elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not compieted hypical education credits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2223253	Applied Physical Education Dance	0.5	2	FallAB	Thu2	Dance Hall	Yonezawa Mayuko	In this class, learns how to use basic body of the dance and gets on various music and move a body. In addition, aims at the making of healthy body by yoga and stretch through a class.	実務経験教員 elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hyvical elducation oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2225273	Applied Physical Education Tennis	0.5	2	FallAB	Thu2	Taigei Tennis Hardco urts	Hajime Ohmori	More advanced skills will be introduced, including smash, lob, topspine service, strategies and more.	G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation credits can register. It may not singers be possible to take the desired courses, because there is a limit on the number of students.	
2234213	Applied Physical Education Basketball	0.5	2	FallAB	Thu2	Basket ball Courts	Toshihiro Otaka	Learning Individual tactics (Beat the Defense & Get the Ball Offense). Understanding the characteristic of basketball, and Playing game with Individual tactics.	elements by gender(equipment) elements by gender(contact) G-course	Δ	Only students who want to obtain a teacher's license in Japan and who have not completed hypical elducation oredits can register. It may not laves be possible to take the desired courses, because there is a limit on the number of students.	
2235213	Applied Physical Education Badminton	0.5	2	FallAB	Thu2	1st Gymnas ium	Chika Tanifuji	Understanding the principles of badminton in order to play and enjoy games. History, manner, rule, and values of sports shall also be learned through playing games.	elements by gender(special rule/pair/team) G-course	۵	Only students who want to obtain a teacher's license in Jagma and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	

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2236253	Applied Physical Education Volleyball	0.5	2	FallAB	Thu2	Volley ball Gymnas ium	Nakaba Akiyama	This course is designed to learn fundamental skills (pass, serve, spike, block, game play), rules, basic strategies, and team work.	G-course	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education orredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2240253	Applied Physical Education Fitness Training	0.5	2	FallAB	Thu2	2nd Traini ng Area	Hirokazu Matsuo	Emphasis will be on maintenance of good health and understanding of relationship between physical fitness and health promotion. Acquirement of methods of reisitance training, jogging and stretching shall also be addressed for lifelong good health.	elements by gender(other) G-course Details will be announced. 体力激定の評価に際して、男女で基準 値が異なる	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
2241233	Applied Physical Education Flag Football	0.5	2	FallAB	Thu2	SEKISH O Field	Tsuyoshi Matsumoto	Emphasis is on further tactical/positional patterns and consideration for team shape/formations. Larger playing areas are gradually introduced, and as before, students take part in game formats on a regular basis.	elements by gender (special rule/pair/team) 6-course 名チームの男女数が均等になるように 男女混合チームを作ります。ゲームに おいては、女子特別ルールを設定し、 全員が積極的にゲームに関与できるよ う工夫を行います。	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not larges be mossible to take the desired courses, because there is a limit on the number of students.	
2243253	Applied Physical Education Bodywork	0.5	2	FallAB	Thu2	2nd Multi- Purpos e Dojo		The will do the following exercises. (1) Gore Training (2) Stretching (3) Self-massage (0) Brething technique. Sharpen your senses. Increases resistance to stress. And enjoy the exercise itself.	G-ourse 男女の区別なくペアワーク(トレーニ ングの構動やスポーツマッサージ等) が行われることがあります。ペアワー クが書本な方は根型で行うことができ ます。ペアの組み方は自由です。奇数 の場合は3人組になることもありま す。	۵	Only students who want to obtain a teacher's license in Japan and who have not completed physical education oredits can register. It may not always be possible to take the desired courses, because there is a limit on the number of students.	
6190101	Information Literacy (Lectures)	1.0	1	FallA	Tue3, 4	3A405	Simona Mirela Vasilache	This course teaches basic knowledge of computers, the Internet and the social positioning of computers. Students learn how computer systems are made, about the structure of the Internet, information security, as well as intellectual property rights and information ethics.	For Students in English Program. Lectures are conducted in English.	۵	It depends on decision of the class instructor	
6490102	Information Literacy (Exercises)	1.0	1	FallB	Tue3, 4	3D207	Simona Mirela Vasilache	This course teaches fundamental skills for computer use. By using computers to create documents and presentations, disseminate information on the Internet and share information, students acquire basic information utilization skills.	For Students in English Program. Lectures are conducted in English.	Δ	It depends on decision of the class instructor	
6590102	Data Science	2. 0	1	SprAB	Tue3, 4		Simona Mirela Vasilache	This course teaches students about basic concepts of data science and fundamental techniques for data collection, management and analysis. Students will acquire practical methods for data utilization. Through concrete examples from data science, they will also develop an understanding of how data is used in society.	For Students in English Program. Lectures are conducted in English.	۵	It depends on decision of the class instructor	
4004013	Workshops on Japanese-style Painting	1.0	1 - 4	SprAB	Mon4, 5		Toshiaki Hodozuka	"Monha (reproduction)," the embodiment of the saying "to understand the past is to know the present." is a practical skill that is essential for studying Japanese painting. In this course, you will use materials such as using (black hink) and Japanese brunkes to study various techniques and methods of mosha, and experience the charm of expression through ink sketchning as seen in the "Mational Treasure - Choin_reiga" (Sorolls of Frolicking Animals). In addition, the content of this course will be planed individually according to students' levels and interests.	Participation is limited to 30 persons.			
4005013	Workshops on Sculpture	1.0	1 - 4	FallAB	Tue2, 3	practi ce room of Art & Design 1	Hisaaki Ohara,Shinji Miyasaka	The goal of this course is to produce a statue of head made of clay using a model, it also aims to develop fundamental abilities of expression in three-dimentional format grasped through actual production.	人数制限あり			
BE11011	International Social Studies I	2.0	1	FallAB	Thu4, 5		Edson Ioshiaqui Urano	The aim of this course is to provide the basic understanding of the major trends on international migration. Taking as a background the growing process of global ization, contral themes in migratory studies such as South-Worth migration, refugee issues, skilled workers and migration to Japan will be discussed.	Limited to 35 students. Lectures are conducted in English. JTP	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE11021	International Social Studies II	2. 0	1	SprAB	Thu3, 4		Katsunori Seki	The course introduces students to the fundamental of international relations and international political economy. The course begins with an overaching framework to study international politics and international political economy. The course a wide range of top is including war, oivil war and terrorian, international trade, international financial relations. International trade, international financial relations, and terrorian and terrorian, data the course of the course discussion.	equivalent to "International Studies II" in 2010 Lectures are conducted in English. 主尊求必修科目。 JFP	۵	It depends on decision of the class instructor	School of Social and International Studies
BE21131	Introduction to Programming	2. 0	1, 2	FallAB	Fri3,4		Simona Mirela Vasilache	This course is focused on helping students acquire fundamental programming notions. Some of the topics that will be covered include starting programming from "pendapper", pseudocode, algorithms, data types, basic control structures etc.	Lectures are conducted in English. JTP G-course The number of students is limited to 35. (equivalent to "Introduction to Information Processing" in 2010-2012)	۵	It depends on decision of the class instructor	School of Social and International Studies
BE21171	Law and Society in Japan	1.0	2 - 4					This course is to provide an introduction to law and to the Japanese legal system. The topics covered by this ourse include the development of Japanee law, the basic structure of Japanese law, criminal and civil law of Japan and future prospects of Japanese law and legal system.	Identical to BB28081. Lectures are conducted in English. Not open in 2020. JTP G-course students who acquired the oredit of Introduction to Law. The number of students in limited to 20-25.	۵	It depends on decision of the class instructor	School of Social and International Studies
BE21181	Sociology of Contemporary Japan	2. 0	1, 2					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 contemporry Japanese society, including complex issues such as migration, foreign workers, ageing society, job hunting, working poor and inequality.	Limited to 35 students. Identical to BB11871. Lectures are conducted in English. Not open in 2020. JTP G-course Equivalent to "Social Issues in Contemporary Japan (BE21181)"	۵	It depends on decision of the class instructor	School of Social and International Studies
BE21201	International Economics	2. 0	2	SprAB	Thu3, 4		Yoshinori Kurokawa	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 emphaize the usefulness of basic international economic theories in understanding international Microeconomics or BOSIGNI inter-Internatiata Burderoeconomics and prerequisite. In class, I will explain all necessary background to understand this course.	Limited to studenta in the School of Social and International Studies. Identical to BOSI071. Lectures are conducted in English.	۵	Depends on if there is a margin for the number of students or classrooms	School of Social and International Studies

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BE21231	Intro-Intermediate Macroeconomics	2. 0	2	FallAB	Wed1,2		Hisahiro Naito	This course covers the basic concepts in mecroscomaics. Topics include the IS-LM model, aggregate demaind aggregate scopyl and the Phillips curve, mometary and fiscal policy, rational expectations, real business cycle models, micro foundations, and long-run economic growth.	Identical to 8051081. Lectures are conducted in English. JTP	Δ	Depends on if there is a margin for the number of students or classrooms	School of Social and International Studies
BE21241	Media Politics	2. 0	1 - 3	FallAB	Mon1, 2		Leslie Tkach Kawasaki	New dose the media, in all its various formats, interact with politics? From "traditional" media, such as newspaces and television. To new media formats including websites, blogs and social media channels, in this course, sudurents will examine the intersection between media and politics from historical, theoretical, topic-based, and consumer/producer perspectives.	JTP Identical to BC51161. Lectures are conducted in English.	Δ	Depends on if there is a margin for the number of students or classrooms	School of Social and International Studies
BE21371	Introduction to Law	2. 0	1, 2	SprAB	Tue5, 6		Serena Franco	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.	This course is available only for students who acquired the credit of Introduction to Social Sciences. The number of students is limited to 30-35. Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE21381	Introduction to Political Science	2.0	1, 2					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 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 applanations and interpretations of a variety of political phomemena 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.	Lectures are conducted in English. Not open in 2020. Genourse to Politics and Equivalent to "Politics and Society (BE2138))"	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE21511	Academic Discussion Seminar	2. 0	1, 2	FallAB	Wed3, 4		Simona Mirela Vasilache	The goal of this course is to engage students in active discussions on working contemportry topics, ranging from politics, economics, science to culture, entertainement etc. The students will be encouraged to express and defend their opinions openly and actively, as well as propose issues to be debated.	Lectures are conducted in English. G-course The number of students is limited to 30. Students who received the oredits from Academic Discussion Seminar II in AY2018 and earlier cannot register.	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE21831	Quantitative Methods for Social Sciences	2. 0	1, 2	FallAB	Thu3, 4		Katsunori Seki	This course introduces students to the fundamental of causal inference that constitutes the core of quantitative social sciences today. The course is divide 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.	Lectures are conducted in English. G-course 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.	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE21871	Monetary Economics	2. 0	3, 4					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 increeconnic and morreconomic 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.	Lectures are conducted in English. Not open in 2020. JP G-course			School of Social and International Studies
BE22021	Japan and the World	2. 0	2 - 4	FallAB	Mon3, 4		Liang Pan	This course focuses on the history of Japam's domestic politics and foreign relations from the end of the Second World War till the end of 1970s.	Open in an even number year. Identical to BC11961. Lectures are conducted in English. JTP			School of Social and International Studies
BE22031	Japanese Foreign Policy	2. 0	2 - 4					This course examines the historical background of modern Japan's foreign polyowaking from early 1980s till He me of of the Scoon World War (1945). Main emphasis of the lectures will be placed on the interaction between Japanese domestic politics and foreign affairs.	Open in an odd number year. Identical to BC11911. Lectures are conducted in English. JTP			School of Social and International Studies
BE22051	Public Policy	2. 0	2 - 4	Spr AB	Thu1, 2		Edson Ioshiaqui Urano	The objective of this course is to provide students with basic knowledge to understand public policies, with special focus on the role of economic and social policies in society.	Identical to BB11881 and BC11461. Lectures are conducted in English. JTP G-course	۵	It depends on decision of the class instructor	School of Social and International Studies
BE22071	International Politics	2. 0	2 - 4	FallAB	Tue5, 6		Takafumi Ohtomo	This course examines various theories and cases to understand the dynamics of international politics.	Identical to BC11121. Lectures are conducted in English. JTP			School of Social and International Studies
BE22081	Political Philosophy	2. 0	2 - 4	Spr AB	Tue5, 6		Charles Edward Covell	This course provides an introduction to the work of the classic thinkers who being to the Mestern tradition in political philosophy, and in this to meet the basic educational needs of students specializing in the various areas of politics. Jaw and economics. It is recognized that political philosophy is often held to be a subjecting that presents major difficulties for students. Accordingly, it is proposed to make the review of Western political thinkers as simple as possible and to focus attention on the explanation of the most fundamental of the terms and concepts in Western political thought.	Identical to Boll77. Loctures are conducted in English. JTP			School of Social and International Studies
BE22101	Comparative Public Administration	2. 0	2 - 4	FallAB	Tue5, 6		Charles Edward Covell	The purpose of this course is to provide a general introduction to the structure of government and public administration through detailed consideration of the case of the Mited Kingdom. The emphasis throughout will be on bringing out the first principles underlying the basic machinery of government and public administration, and on doing this in such a way as to make these principles comprehensible to students with only a limited background in the field of comparative public administration.	Identical to BC11271. Lectures are conducted in English. JTP			School of Social and International Studies
BE22141	Japanese Politics	2. 0	2 - 4	SprAB	Tue5, 6		Katsunori Seki	The objective of this course is to help students better understand Japanese politics using the tools and theories of political science. The target of this ocurse is advanced undergraduate students who would like to study Political Science using Japan as a case. To this end, this course course and the science using Japan as a case. To this end, this course course and the science using Japan as a case. To this end, this course course and the science using Japan as a case. To this end, this course course and the science using Japan as a case. The science of the course of the science using Japan as a case of the science of the course of the science using Japan as a case of the science of the course of the science of the science of the science of the science of the Party dominance as well as the more recent and turbulent Heisei era. Students are expected to develop substantive knowledge of contemporary Japan. Moreover, students are expected to understand and critically evaluate the various tools and theories that are used to explain Japanese politics.	G-course	۵	It depends on decision of the class instructor	School of Social and International Studies

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BE22151	Democratization	2. 0	2 - 4					The objective of this course is to help students better understand demoratization using the tools and thoories of political science. The target of this course is advanced undergraduate students (1) who would like to study usestions related to democray and dicatorship 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, democratic transition, democratic consolidation, varieties of dicatorships, democray and development, resource curse, and clientlism. Moreover, students are expected to understand and critically evaluate the various theories that are used to explain democratization.	Open in an odd number year. Lectures are conducted in English. Not open in 2020. 6-course Students who completed "Democratization (BE2213)" in AY2019 cannot register.	Δ	It depends on decision of the class	School of Social and International Studies
BE22221	Japanese Economy	2. 0	2 - 4	FallAB	Mon5, 6		Yoshinori Kurokawa	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 course and that for international students is to be more interested in Japan. As a prerequisite, this course requires BGSIOB introductry Nicroeconomics and BGSIO71 International Economics, or equivalent.	Identical to BC11881. Lectures are conducted in English. JTP	۵	Depends on if there is a margin for th number of students or classrooms	e School of Social and International Studies
BE22231	Econometrics	2.0	2 - 4	SprAB	Tue1, 2		ZHENGFEI YU	This course is an introduction to econometrics. We will begin with the linear regression model and its estimation and inference. Then we will over linear models with endogeneity. linear panel models, limited dependent variables, and models used in program evaluations. This course prerequires Introductory Statistics.	Identical to BC12061. Lectures are conducted in English. JTP			School of Social and International Studies
BE22241	Economic History	2. 0	2 - 4	FallAB	Mon3, 4		Hidenao Takahashi	This course will provide an introduction of economic history. Main topics of the course are economic growth and globalization.	Identical to BB41541. Lectures are conducted in English.			School of Social and International Studies
BE22251	Comparative Economics	2. 0	2 - 4	FallAB	Mon3, 4		Yoko Tanaka	This course provides an overview on the labor relations from comparative view. Particularly focusing the precare atypical work, the changing structure of labor forms and its problems would be examined and discussed.	Course in 2020 Open in an even number year. Identical to BB41381 and BC11891. Lectures are conducted in English. JTP			School of Social and International Studies
BE22261	Development Economics	2.0	2 - 4	Spr AB	Tue4, 5		Mari Minowa	This course is an introduction to development economics, covering both theoretical and empirical research related to development. The course will cover many of the key topics in development: poverty and inequality, industrialization, rural sector development, human capital, governance and institution, among others.	Identical with "Common at ion Study Identical to BB41421 and BC12731. Lectures are conducted in English.			School of Social and International Studies
BE22271	International Trade	2. 0	2 - 4					As the economy becomes more globalized, it is becoming necessary to study the basic mechanism of international trade and its impact on weifare. In this course, we first study the concept of compartive advantage and study any countries will be engaged in international trade. Then, we study the impact on we first by using several models trade. Then, we study the impacts one wifare by using several models study the monopoly model and its implication for international late theory. In addition, we discuss the impact of international factor movement such as immigration and foreign direct investment.	Open in an odd number year. Identical to B841601, BC11411, and FR25051. Lectures are conducted in English. JTP			School of Social and International Studies
BE22321	Statistics	2. 0	2	FallAB	Tue1, 2		ZHENGFEI YU	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, estimation, confidence intervals, and hypothesis testing. If time allows, a preview of the regression analysis will be provided. The details of regression analysis will be covered in Introductory Econometrics, which is a continuation of this course.	2016年度までのBCI2031「統計科学」 の単位を取得した者は躍修不明。 Identical to BC51181. Lectures are conducted in English. JTP			School of Social and International Studies
BE22401	Transnational Social Policy	2. 0	2 - 4					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 goverrments and ivil society is the need to create new social agenda and to develop social policies. The aim of this cource is to discuss these challenges for the 21st Century from a transmational perspective	Biennial Course (offered in odd years) Open in an odd number year. Identical to BBI1861 and BC11471. Lectures are conducted in English. JTP G-course	۵	It depends on decision of the class instructor	School of Social and International Studies
BE22451	Social Development	2.0	2 - 4	FallAB	Wed1,2		Midori Matsushima	People's well-being cannot be achieved by economic growth alone, and the important role of social development has became widely recognised in international development practice. This course is offered for students firstly to increase understandings of why and how social development becames a main stream of development by learning historical background and development theory. Secondly, we focus on some key concept and practice including human development, capability approach, participatory apprache, and social capital. In the latter half of the course, we learn social development in relation dhuman security. With some examples of on-going development to programmes, students will discuss significance and applications of social development to protection, and triad triad to we can improve development programmes towards sustainable development.	Open in an even number year. Identical to 80:1221. Lectures are conducted in English. JTP Gourse in 2020. Biennial Course (offered in odd years)			School of Social and International Studies
BE22471	Globalization and Development	2. 0	2 - 4	FallAB	Tue/Fr i2		Nathan Gilbert Quimpo	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.	ldentical to BC11351. Lectures are conducted in English. JTP G-course	۵	It depends on decision of the class instructor	School of Social and International Studies
BE22491	European Legal History	1.0	3, 4	SprA	Intens ive		Miyasaka Wataru	This course provides students with introductory overview of European Legal History. This year I would like to focus on the ancient Roman Law, which is the basis of legal systems not only in European continent countries, but also in many countries all over the world influenced from the former countries.	Students who have earned credits of B821581 or B828761 are not permitted to take this class. Open in an even number year. Identical to B828771. Lectures are conducted in English. 4/18.4/19.5/9.5/10 / 19: 3-4			School of Social and International Studies
BE22501	Linguistic Anthropology	2. 0	2 - 4	Spr AB	Tue1, 2		Risako Ide	An introduction to linguistic anthropology, this course explores the theories, concepts and case studies that help us understand the dynamic relationship between language, outure, and society. Based on the class lecture and classroom discussions based on the reading assignments, we will try to understand the idea that	4/16 - 1-2 period、 4/19 - 3-4 period、5/19 : 1-3 period、5/10 : 1限目のみ343403教室で実施 Identical to BC11511. Lectures are conducted in English. JTP (former Aquot:Anthropological Linguistics":)			School of Social and International Studies
BE22521	International Education	2. 0	2 - 4	SprAB	Tue3, 4		Masako Shibata	This course invites both overseas and depanese students. The major purpose of the course is to enable students to learn about issues and ourrent trends in educational studies in international perspectives. It deals with themes, such as development, colonial legacy and global interaction, in education.	Identical to BC12241. Lectures are conducted in English. JTP			School of Social and International Studies

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BE22551	Outline of Japanese Education	2. 0	2 - 4	FallAB	Tue3, 4		Masako Shibata	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 consentational transfer of policy for education. Thus international and comparative perspectives are welcome throughout the course.	Identical to BC12251. Lectures are conducted in English. JTP			School of Social and International Studies
BE22581	Sociology of Migration	2.0	2 - 4	FallAB	Thu1, 2		Edson Ioshiaqui Urano	This course aims to analyze international migration focusing on key themes for understanding this social phenomenon. To this end, topics such as gender and migration, transnational comunities, migration policies will be addressed through a sociological and multidisciplinary perspective.	Limited to 30 students. Open in an even number year. Lectures are conducted in English. G-course Biennial Course (offered in even years)	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE22711	Global Society and Criminology	2.0	2 - 4	FallAB	Thu5, 6		Chihoko Morita	This course is an introduction to criminology and the oriminal justice system in Japan. The course also discusses the effect of globalization on criminal justice policies in Japan.	Open in even years. This course is available only for students who acquired the credits of Introduction to Law and Law and Society in Japan. Lectures are conducted in English.	۵	It depends on decision of the class instructor	School of Social and International Studies
BE22801	Economic Growth	1.0	2 - 4	Spr AB	Wed6		Masako Ikefuji	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.	Identical to BB41551. Lectures are conducted in English. JTP G-course			School of Social and International Studies
BE22821	History of Economic Thought	2. 0	2 - 4	FallAB	Thu5, 6		Abu Girma Moges	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 crigin, evolution, arguments, and philosophy of economics and the economists behind such powerful ideas.	Identical to BC16021. Lectures are conducted in English. JTP	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE22851	Mathematical Economics	2. 0	2 - 4	SprAB	Mon5, 6		Masako Ikefuji	This course introduces students to the most fundamental analytical tools of mathematics for economics. It provides the necessary skills and training to use mathematical approach in economic analysis. The goal of this course is to give the students skills to apply the mathematical methods to solution of economics problems.	Identical to BB41561 and BC16011. Lectures are conducted in English. JTP	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE22861	Health Economics	2.0	2 - 4	SprAB	Thu5, 6		Abu Girma Moges	Health Economics is an applied economics course that analyzes issues in health, medical care and health finance. The demand for health and medical care services and the economic behavior of health service providers and the operation of health insurance markets are analyzed with economic tools of analysis and perspectives. The role of the government sector in the provision, regulation and financing of health are services are addressed within the context of health sector policies both in developed and developing countries.	Identical to BC12921. Lectures are conducted in English. JTP	Δ	It depends on decision of the class instructor	School of Social and International Studies
BE22871	Contemporary Issues in Developing Countries	2.0	2 - 4	FallAB	Fri4,5		Yuko Nakano	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. Lectures are conducted in English. JTP			School of Social and International Studies
BE22901	Economic Development	2.0	2 - 4	FallAB	Thu3, 4		Malek Abdul Mohammad	This course gives an overview of modern development economics, i.e., sconneics of low-minome, developing and sengring economies. The course we will discus key concepts and issues of economic development especially how toole of macroeconomics, microeconomics, concometrics, thernataicaml 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 B012091. Lectures are conducted in English.			School of Social and International Studies
EG02011	Physics	1.0	1	FallAB	Thu4	20407	Marcos Antonio das Neves,Mito Kokawa	Introduction to physics for life and environmental sciences. Basic areas of mechanics. thermodyanamics. and waves will be covered.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02021	Mathematics	1.0	1	FallAB	Fr i 5	26205	Ahamed Tofael	Introduction to mathematics for life and environmental sciences overs application of calculus using applied differentiation and integration. logarithmic and exponential functions. first-order differential equations, matrix and probability. This course emphasizes to solve problems related to life and environmental sciences using a wide array of mathematical solutions.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02031	Statistics	1.0	2	FallC	Tue2 Fri1	2C102 2D202- 203	Louis John Irving	Introduction to statistics for life and environmental sciences.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02041	Advanced Mathematics	1.0	2	SprAB	Thu6		Ahamed Tofael	In this course, students will have a short review of applied calculus and introduces with the advanced mathematics sections like geometrical meaning of differential equations, solution of ordinary and partial differential equations, numerical analysis and Laplace transformation. These advanced mathematical skills will be involuable to them to interpret the concepts of modeling of real world problems related to life and environmental sciences.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02111	Introduction to Biology I	1.0	1	FallAB	Fri3	20102	Louis John Irving,DeMar Taylor	Introduction to biochemistry and cytology.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02211	Chemistry I	1.0	1	FallA	Tue/Fr i6	2D303	Seung Won Kang	Introduction to general chemistry for life and environmental sciences.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02221	Chemistry II	1.0	1	FallB	Tue/Fr i6	2D303	Seung Won Kang	Introduction to general chemistry for life and environmental sciences.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG02231	Chemistry III	1.0	1	FallC	Tue4 Thu5	2D303	Seung Won Kang	Introduction to general chemistry for life and environmental sciences.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG50011	World Food and Agriculture	1.0	1	FallAB	Fri2	20102	Seung Won Kang	This course introduces crop plants, domestic animals and their production in the world, in relation to economic and environmental issues.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG50031	Cell Structure and Function	1.0	2, 3	FallAB	Fr i 5	2B309	DeMar Taylor	Lectures and discussions will concentrate on cell structure and function as related to 1 membranes. 22 mitochondria, 30 ohloroplasts. 40 intrasellular transport, 5) cell communication, 6) cell cycle and 7) cell communities.	Identical to EC31251. Lectures are conducted in English. JTP			School of Life and Environmental Sciences
EG50041	Biochemistry	2.0	2, 3	SprAB	Thu4, 5		Keiji Kimura,Miyako Kusano,Daisuke Hagiwara,yuko shimada,Hiromi Yanagisawa	Advanced biochemistry covers a wide area including molecular cell biology, molecular genetics, biochemology, metabolism, and relates all current biological sciences. In this year, experts of three major classes of the organisms (microorganisms, plants, animals) give lectures from the professional points of view. This course provides an introduction to biochemistry for the undergraduates who are able to learn basic to applied knowledge of life and environmental sciences.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG50091	Disease Vector Biology	1.0	3	FallAB	Fri1	2D206	DeMar Taylor	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 EC31261. Lectures are conducted in English.			School of Life and Environmental Sciences

Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
EG60041	Animal Production	1.0	3, 4	SprAB	Thu3		Atsushi Tajima	Animal production and grain production are tow of the most important human inventions. In the present lecture, basic concepts of domestic animals production, i.e. animal husbandry, animal reproduction and animal nutrition will be covered.	Same as EC31081 Lectures are conducted in English.			School of Life and Environmental Sciences
EG60051	Biotechnology in Domestic Animals	1.0	3, 4					The aim of the course is to provide basic information on the current status of biotechnology in domestice animals.	Open in an odd number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60061	Animals and Animal Products in Human Life	1.0	3, 4	FallAB	Thu2	2B309	Yuji Miyaguchi	This course aims to provide an understanding on the basic principles of human-animal relationship. Topics on how animal and animal products contribute to the human life will be discussed.	Open in an even number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60071	Food Functionality	1.0	3, 4	FallC	Tue5, 6	26407	Hiroko Isoda, Myra Orlina Villareal	Lectures will cover the topics in advanced food functionality including anticancer, anti allergy, anti stress, anti obesity, neuronal regulation, melanogenesis regulation and the bioavailability of functional food factors.	Same as EC31391 Lectures are conducted in English.			School of Life and Environmental Sciences
EG60101	Soil Science	2. 0	3, 4	FallB	Intens ive	2G304	Maki Asano	Endmental accepts of soils with egard to their genesis, physicochemical properties, management and the related environmental issues will be lectured, and the discussion on some selected topics will be trated as more advanced understanding of present status of soils in the changing world.	Same as EC32161 Lectures are conducted in English. Lectures are Conducted in English			School of Life and Environmental Sciences
EG60111	Environmental Ecological Engineering	1.0	3	FallAB	Wed3	20410	Nakao Nomura	Lecture covers eco-engineering technologies to restore deteriorated environments including following major existing issues: 1) Redubilitation of enclosed atter bodies in terms of water and sediment quality improvement. 2Biomass energy as a renewable energy and its effect on reduction of green house gas emission. 3) Impact of auguoultural industries on coastal environment including mangrove forest.	機斷領域科目「環境」 Identical to E03211. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60121	Food Process Engineering	1.0	3, 4	SprAB	Wed3		Marcos Antonio das Neves,Mito Kokawa	This course introduces basic principles of fluid flow, heat transfer, and mass transfer phenomena, along with the application of these principles to the unit operations most commonly used in food processing, such as thermal processing, cooling, freezing, centrifugation, filtration, drying, size reduction and emulsification.	Same as EC42021 Lectures are conducted in English.			School of Life and Environmental Sciences
EG60161	Environmental Colloid Engineering	1.0	3, 4	FallB	Thu2, 3	26204	Yasuhisa Adachi	Applications of colloid and interface science to environmental issue and its basis are given. Focus will be placed on the flocouation which is important to control water quality.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60191	Biomass Conversion	2. 0	3, 4	SprAB Sum Vac	Intens ive	20403	Yingnan Yang	This course is designed to help you develop and understanding of the complex processes of biomass conversion. Lectures and discussions will focus on biomass sources, biomass conversion technology and process.	Limited to G30 students. Open in an even number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60222	Seminar in Agrobiology and Forestry	2. 0	3, 4	Sum Vac	Intens ive		Ryo Ohsawa	This seminar focuses on Agrobiological or Environmental sciences, aiming at providing the latest abivement of these science fields. A student studies the method of accessing suitable information, and also will be requested to reflect them for own research through a seminar.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60232	Seminar in Applied Biological Chemistry	2. 0	3, 4					The purpose of the course is to introduce and discuss the applied life sciences related to biochemistry of plant molecules, molecules and developmental biology, biology for gene regulations, ecological molecular microbiology, biomimetic chemistry, bioreaction engineering.	Open in an odd number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60252	Seminar in Agricultural Economics and Sociology	2. 0	3, 4	Annua I	by appoin tment		Hisato Shuto	This course aims to introduce the present issues of agricultural and forestry economics, and discuss the roles of rural society, farm management and forestry planning.	Students who are supervised by faculties in the Course of Agriculture and Forestry Social Sciences are eligible to enroll. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60272	Seminar in Quantitative Food Economics	2. 0	2, 3	FallAB	Thu5, 6	2D204, 2G205	Hisato Shuto	Exercises in estimation of food production and consumption based on economic theories, and discussions are performed to analyze the factors controlling supply and demand of foods.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60282	Seminar in International Agrobiological Resource Sciences	2. 0	3, 4	FallAB	Intens ive	2L503	Yingnan Yang	This course aims to provide information for resource plants and animals. methods and examples of field survey, and effective use for agriculture and industry.	students. Open in an even number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60361	Microbiology	1.0	2, 3	FallC	Thu3, 4	26205	Shinichi Andrew Utada	This lecture will introduce you basic microbiology including: 1. Diversity of microorganisms 2. Call-structures 3. Matabolisms 4. Their use in our life	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60401	Economics of Resource and Environment	2. 0	3, 4	SprAB	Thu3, 4		Hisato Shuto, Satoshi Tachibana	Lectures will cover the topics in agricultural economy and resouce and environment including forest.	Open in an even number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60411	Biomaterial Science	1.0	3, 4	FallAB	Tue2	26205	Toshiharu Enomae,Akiko Nakagawa-Izumi	Fundamentals and applications of paper science and papermaking engineering will be given and they cover chemical structures of fibers from wood papermaking technology such as bating. Foreing calendering and costing, and geometrical, mechanical, optical, water- related properties of paper as well as latest research topics.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60421	Soil and Water Bio- Engineering	1.0	3	FallA	Intens ive		Wenfeng Tan,貴 彦 中村	Engineering aspect of soil and water will be given on the basis of the incomelege of colloid and interface science. Emphasis will be placed on the soil-liquid separation technology by membrane and floculation. A topic of application of microbiology, such activated sludge method will be included.	It is recommended to take E060161 together with this subject due to complementarity. E06049 will also be helpful to understand this subject. Lectures are conducted in English. 10/8, 15, 22, 29			School of Life and Environmental Sciences
EG60453	Environmental and Colloid Engineering Laboratory	1.0	3, 4	FallABC	Intens ive		Motoyoshi Kobayashi	Students learn the fundamental and applications of colioidal and environmental engineering through the experiments.	It is desirable for participants to take "Introduction of Colloid Environmental Colloid Environmental Colloid Engineering" beforehand or at the same time Students need to make a contact with the instructor (Modayashi not. or. DPML. tsu kuba.es. jp)before registration. (30-017:00) Students sho had taken EG60473 is not allowed. Lectures are conducted in English. 11/7.14.12/5.19.1/9	۵	Depends on if there is a margin for th number of students or classrooms	ie School of Life and Environmental Sciences
EG60491	Elementary Applied Thermodynamics	1.0	2, 3	SprAB	Mon4		Yasuhisa Adachi	Thermodynamics is one of most fundamental subject when biological and envicemental issues are treated. In this lecture, the elementary thermodynamics will be explained with an orientation toward an application in life and environmental science. Lecture will start the concept of equilibrium system with an example of Brownian motion. It will be followed by the first and the second law of thermodynamics. Thermodynamic function, the concept of Gibbs free energy, chemical potential. Many example will be cited from the field of Colloid and Interface Science. Those, who want to join the lecture of environmental colloid engineering are strongly recommended to join this lecture.	Lectures are conducted in English.			School of Life and Environmental Sciences

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EG60511	Practical Plant Biotechnology	1.0	3, 4	SprAB	Thu5		Chiaki Matsukura, Hiros hi Ezura, Tohru Ariizumi	Plant cell, tissue and organ cultures for crop improvement will be introduced as conventional biotechnologies. The current status of of genetically modified (GMO crops and the genome editing technology will be introduced.	same as EC31231 and EG60021. A G3O-student who had taken EG60021 is not allowed. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60551	Water Resources Management Engineering	1.0	3, 4	SprABC	Intens ive		Atsushi Ishii	This lecture aims to provide a fundamental understandings of water resources by giving introductory hydraulics and hydrology, natures of river flow, water use in various sectors with a special focus on irrigation, water resources development and management, hydrologic statistics, as well as institutional system for water.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60561	Water Environmental Management Technology	1.0	3	SprC	Intens ive		Nakao Nomura	Lecture covers ecological technologies to restore water environments in enclosed water bodies with dateriorated sediment and water quality. Lecture also covers a case study of Lake Assumignare Mater Removation Project where several research studies was performed to rehabilitate water environment in large scale.	機斷循域科目「環境」、特別聴講学生 (0:0プロジェクト参加学生を含む)の 外履等可、Cross-disciplinary subjects [Environment]. Limited to Exchange Student (Tokubetsu Chokogakusei) including CiC Project. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60571	Introduction to Industrial Ecology	1.0	3	SprAB	Tue2		Helmut Friedrich Yabar Mostacero	One of the biggest dallenges our sociaties face is how to decouple economic growth from environmental pressure within the limits of the sarth's carrying capacity. The highly inefficient use of natural resources from extraction to final disposal produces wastes and releases to air, water and soil. This course addresses the mechanisms and tools modessary to overome this challenge through the introduction to Industrial Ecology (IE). Industrial ecology focuses on promoting industrial activities similar to processes in nature. This is achieved by optimizing emergy and material resource use while minimizing and/or avoiding waste and pollution release. The course will call the the tools to achieve this goal including resource use optimization through the SR initiative proposed by Japan. Life Gyota Assessment, and Material Flow Analysis. The course will also address the technical and management the SR initiating ement solutions for intervent the tools to necessary to design and impedient solutions to the current production and consumption patterns.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60581	Animal Cell Culture Technology	1.0	3	SprAB	Fri3		Nakao Nomura	Lectures cover basic knowledge about animal cell culture(cell cycle, growth fastors, extra-cellular matrixes, cancor cells) as well as application of cultured animal cells(bybrid artificial organ, production of monoclonal antibodies, alternative for experimental animals). Lectures also provides basic information about biotechnological approached for setting up animal cell bioreactors.	Identical to EG32071.			School of Life and Environmental Sciences
EG60591	Food and Nutritional Chemistry I	1.0	3, 4	FallAB	Fri5	20410	Hitoshi Miyazaki	The aims of this course are to understand i) structure-function relationship of gastrointestinal tract, ii) functions of food constituents such as carebodynetaes, lipids, proteins, and vitamins, iii) mechanisms of their digestion and absorption, iv) relation of lifestyle- related disease with nutrition intake, and v) relation of exercise with nutrition intake.	Same as EC32241 G30 Students who had received credits from EG60081 are not allowed. Open in an even number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60601	Food and Nutritional Chemistry II	1.0	3, 4					The aims of this course are to understand i) physiological functions of nutrients such as carbohydrates, lipids, and proteins, ii) regulation of their metabolism, iii) relation of metabolic syndrome with exercise, overnutrition, and biological clock.	Same as EC32241 G3O Students who had received credits from EG60081 are not allowed. Open in an odd number year. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60611	International Agricultural and Forestry Policies I	1.0	3, 4	SprC	Intens ive		英樹 萩原,真康 浅井,久人 首藤	Lectures will cover the topics in policies for agriculture, food forestry, and environmental management related to agriculture and forestry in the world.	630 students who had received credits from E660201 are not allowed. Open in an even number year. Identical to EG34281. Lectures are conducted in English. 実務経験教員			School of Life and Environmental Sciences
EG60621	International Agricultural and Forestry Policies II	1.0	3, 4					Lectures will cover the topics in policies for agriculture, food, forestry, and environmental management related to agriculture and forestry in the world.	630 students who had received credits from E660201 are not allowed. Open in an odd number year. Identical to E634381. Lectures are conducted in English.			School of Life and Environmental Sciences
EG60641	Precision Agriculture Technology	1.0	2, 3	SprAB	Fr i 5		Ahamed Tofael	Lectures will cover the topics of precision agricultural technology. Recent advancements in the agricultural field of automation, satellite remote sensing, and GS. The Bigdiat analytics. Ioi in agriculture and machine learning systems are used in medium to large scale of agricultural proteins. The outdoor agricultural mechanization to indoor plant growth monitoring and machinery utilizations are the oree abjects of this course. Through this course students will get exposure of large satisfies ourse to students for agriculture. UNH-based orop monitoring and IoI advancements in agriculture.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG60651	Organic Chemistry	3. 0	2	Annual	Tue1	20107	Mikio Kajiyama	Basic structure and reactions of organic compounds are explained on the electronic theory.				School of Life and Environmental Sciences
EG60663	Fundamental Environmental Engineering Laboratory	1.0	2	Sum Vac	Intens	20110- 1	Ryozo Noguchi, Motoyos hi Xobayashi, Marco S Antonio das Neves, Takeshi Mizunoya, Helmut Friedrich Yabar G Lei, Hiroshi Ohi, Akiko Nakagawa- Izumi, Toshiharu Enomae, Mikaro Kajiyama, Yasuhi sa Adachi, Atsushi Ishii, Zhen Ya Zhang, Yingnan Yang	★ 土 画場、森林、大気なごの生産環境やパイマス、食品などの生物環境を対象 として、これ、60時往を明らいにする器理論 鉄鉄 小説、新 桜町のための高速の手法 を理解 審得する、また実験を通じて、環境工学的なアプローチや科学技術研究 における問題の発見とその解決のための実践労能力を要成する。 This course aims to provide basic concepts of environmental engineering necessary to analyze various phenomena present in environments. biomass, or bioresources.	単成22年度以前の「FH道工学実験 (FC23113)に相続しC23113または EC23123と2度修済みの者は履修できな し。 Identical to EC23133.	۵	Depends on if there is a margin for th number of students or classrooms	e School of Life and Environmental Sciences

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EG70013	Laborstory Work in Basic Geoscience	1.0	1	Tis course will be conducte d in a face-to- face format after the universi ty summer closure.			Atsushi Ikeda, Shigehiro Yamashita, Kohei Tanaka, Tsutomu Yamanaka, Hirosh i Tanaka, Kei Ikehata, Atsushi Kyono, Masanori Kurosawa, Teruyu Maruoka, Chiaki Akiyama	Relevant tools and methods to study ErrUf's environment are the main topic of this deture. Students are anked to participate in and carry out hand-on exercise in various geoscientific analyses.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG70021	Introduction to Geoenvironmental Science	1.0	1	FallAB	Fri2		Masaaki Kureha, Tsuyoshi Hattanji, Takehi ro Morimoto, Hirosh i Tanaka, Michiaki Sugita, Norikazu Matsuoka, Hiroak i Kato	Earth's environment is the main topic of this lecture. Emphasis is on the geoscient(in caspecta and features in the atmosphere, hydrosphere, topography, and human society among others are discussed.	Lectures are conducted in English.			School of Life and Environmental Sciences
EG70031	Introduction to Earth Evolution Science	1.5	1	FallABC	Wed5		Yoji Arakawa, Kohtaro Ujiie, Yuji Yagi, Yoshihito Kamata, Toshiaki Tsunogae, Atsush i Kyono, Shigehiro Fujino, Teruyuki Maruoka	This locature introduces 4.6 billion years evolution of the earth, mainly focusing on the evolution of solid earth, and the birth and evolution of life.	Students, who attended EG30011, are not persited. Lectures are conducted in English.			School of Life and Environmental Sciences
EG90211	Natural Hazards	1.0	2, 3	FallAB	Fri1			This lecture overviews various natural hazards and their triggers, reviews historical and recent hazards and explores future prediction and mitigation against possible hazards.	Offered in odd number years. Lectures are conducted in English. G-course			School of Life and Environmental Sciences
EG91011	Lecture on Geographical Information Systems	1.0	2, 3	FallAB	Thu1		Takehiro Morimoto,Akio Yamashita,Chiak i Akiyama	This course introduces fundamentals of Geographical Information Systems and its application to geography.	Offered in even number years. Lectures are conducted in English.			School of Life and Environmental Sciences
EG91101	Meteorology & Climatology	1.5	2, 3	SprABC	Wed1		Hiroshi Tanaka,Mio Matsueda,Yoichi Kamae,Mariko Harada	Elementary course about the general circulation of the atomosphere and the energy budget. mechanism of of limited and and olimate change, weather forecasting and precipitation, interactions of the atmospheric environment and human activities.	Offered in even number years. Students, who attended E091031, are not permitted. Lectures are conducted in English.			School of Life and Environmental Sciences
EG91141	Human and Regional Geography	1.5	2, 3	FallABC	Thu4		Kenichi Matsui,Keisuke Matsui,Jun Tsutsumi,Tomoko Kubo	This course introduces subjects and fundamentals of the human and regional georgraphy by presenting actual examples of Japan and other regions of the world. Following the introduction of basic concepts of human georgraphy. features of various regions will be explained from viewpoints of rural, urban, commercial, political, religious, recreational and ethic geographies.	Students, who attended EG80011, are not permitted. Lectures are conducted in English.			School of Life and Environmental Sciences
EG91161	Process Geomorphology	1.0	2, 3	SprAB	Fri4			This lecture focuses on physical processes that create and maintain landforms. Tectonic, glacial, fluvial and coastal processes, and weathering as well as mass movements are mainly discussed.	Offered in odd number years. Prerequisite: Introduction to Gecomvironmental Science. Introduction to Earth Evolution Science. Or permission by teacher. Priority for Geoscience English program students. Students. who attende EG91131, are not permitted Lectures are conducted in English.			School of Life and Environmental Sciences
EG91171	Basic Analysis of Environmental Dynamics	1.5	2, 3	SprABC	Tue5		Yuichi Onda, Bunkei Matsushita, Hiro aki Kato, Junko Takahashi	This lecture provides basic knowledge for analyzing environmental dynamics. In addition, the present state of environmental problems and its analysis methods are discussed.	Offered in even number years. Lectures are conducted in English.			School of Life and Environmental Sciences
EG92011	Mineralogy & Petrology	1.0	2, 3	FallAB	Wed3		Yoji Arakawa, Toshiak i Tsunogae, Masano ri Kurosawa, Atsush i Kyono, Kei Ikehata	This lecture provides basic knowledge for various minerals and rocks in the earth's surface and interior. Main purposes are to learn classification, basic principles and processes of the formations of the minerals and rocks (mainly igneous and metamorphic rocks) in the earth.	Offered in even number years. Lectures are conducted in English.			School of Life and Environmental Sciences
EG92021	Inorganic Geochemistry	1.0	2, 3	SprAB	Tue2		Teruyuki Maruoka	This lecture provides basic principles and quantitative methods of geochemistry in order to gain a better understanding of Earth's surface phenomena.	Offered in odd number years. Lectures are conducted in English.			School of Life and Environmental Sciences
EG92031	Paleontology & Stratigraphy	1.0	2, 3	FallAB	Tue2		Sachiko Agematsu, Yoshih ito Kamata, Shigehir o Fujino, Kohei Tanaka	This lecture provides basic knowledge for sedimentology and paleontology and historical geology. Main purposes are to learn interrelationship between life and environment of geological time.	Offered in even number years. Lectures are conducted in English.			School of Life and Environmental Sciences
EG92041	Applied Structural Geology	1.0	2, 3	FallAB	Tue4		Yuji Yagi, Kohtaro Ujiie	Structural geology with emphasis on its application side is the main topics of this lecture.	Offered in odd number years. Lectures are conducted in English.			School of Life and Environmental Sciences
EG90161	Topics on Geoscience B	1.0	3, 4	FallC	Intens ive			This course introduces knowledge and recent developments on specific topic(s) in Geoscience.	Offered in 2021. Priority for Geoscience English program students. Students other than English program by permission of instructor. Up to 20 students. Lectures are conducted in English.			School of Life and Environmental Sciences
FJ20004	Linear Algebra I	3. 0	1	FallABC	Wed4, 5	3A213	Xiao-Min Tong	This course introduces the basic ideas of vector, matrix and their operations and how to solve inmar 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 Mathematica, you are encouraged to solve the homemork using the software once you know how to solve the problems. The course is a prerequisite for "Linear Algebra 11"	Lectures are conducted in English.	۵	It depends on decision of the class instructor	School of Science and Engineering
FJ20014	Linear Algebra II	3. 0	1	SprABC	Wed4, 5		Sonia Sharmin	Following "Linear Algebra 1", "Linear Algebra 11" will also concentrate on the basics 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 program such as MULB& or Methematica, an important tool for numerical linear algebra. No previous programming experience is required.	Lectures are conducted in English.	۵	It depends on decision of the class instructor	School of Science and Engineering

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FJ20104 (Calculus I	4. 0	1	FallAB	Tue1, 2 Thu5, 6	3A311	Nobuyuki Sano	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 amojulations such and derivatives, integrals, differential equations, parametric representations, polar coordinates, etc. This is officiently achieved by visualization, numerical and graphical experimentations and, thus, students are required to be accounted with Mathematica (or sinil ar 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.	Lectures are conducted in English.	۵	It depends on decision of the class	School of Science and Engineering
FJ20114 (Calculus II	4. 0	1	SprAB	Tue5, 6 Thu4, 5	3A311	Nobuyuki Sano	Following the "Calculus 1". 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 Mathematica (or similar once) during the course as working exercises and homework problems. This course as well as "Calculus I" provides a core and practical knowledge program.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
	Probability and Statistics	2.0	1	FallC	Tue/Th u1, 2	3A213	Monirul Muhammad Islam	This course introduces basics 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 examinations.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ22004 I	Electromagnetism I	3. 0	2	FallABC	Wed2, 3	3A214	Toshiaki Hattori	This course introduces the basic ideas of electromagnetism. The course is a prerequisite for "Electromagnetism II".	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ22014 I	Electromagnetism II	3.0	-						Lectures are conducted in English. Not open in 2020.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ25101 I	Electrical Circuit	2. 0	2	FallAB	Tue5, 6	3A212	Toru Takahashi,Hirot aka Osawa	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, impedance and admittance, resonant circuits, mutual induction circuits, bridge circuits, filters, general circuit theorems, and AC power.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ26004 I	Mechanics I	2. 0	1	FallAB	Mon5, 6	3A213	Akihiro Matsuda	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.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ26014 I	Mechanics II	2. 0	1	SprAB	Mon5, 6		Masamichi Kawai,Gaku Shoji	Following "Mechanics ", "Mechanics II" will also concentrate on the basics of mechanics. Emphasis will be given to topoics that will be useful in other discipling, such as systems of particles, statistics and dynamics of rigid body and principles about analytical vector mechanics.	Lectures are conducted in English.	۵	It depends on decision of the class instructor	School of Science and Engineering
FJ26104	Thermodynamics I	2. 0	2	FallAB	Tue3, 4	3A213	Akiko Kaneko	Thermodynamics is one of the essential physics to discuss emergy 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 secific 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 more thermodynamics, and to combine these basic matters. The heat efficiency of the heat engine can be derived.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ26114	Thermodynamics II	1.0	-						Lectures are conducted in English. Not open in 2020.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJ10001 (Complex Analysis	3. 0	2	FallABC	Tue1, 2	3A214	Monirul Muhammad Islam	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 Gaudy integral theorem, power series, to evaluate complicated real integrals via residue calculus etc.	Lectures are conducted in English.	۵	It depends on decision of the class instructor	School of Science and Engineering
FJ10101	Applied Mathematics	3. 0	-						Lectures are conducted in English. Not open in 2020. Lectures are conducted in English.	Δ	It depends on decision of the class instructor It depends on decision of the class	School of Science and Engineering
	Engineering Ethics Introduction to	1.0	-					This course discusses issues relevant to Engineering Systems and aims to	Not open in 2020. Lectures are conducted in English.	Δ	instructor It depends on decision of the class	School of Science and Engineering School of Science
FJ11101	Interdisciplinary Engineering I	1.0	1	FallAB	Tue5	3A214	Tsutomu Maruyama	help students grasp general concepts involved in this field of study.		Δ	instructor	and Engineering
FJ11111	Introduction to Interdisciplinary	1.0	1	SprAB	Tue1		Muneaki Hase, Kiyoto Matauishi	This course discusses issues relevant to Engineering Sciences and aims to help students grasp general concepts involved in this field of study.	Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Science and Engineering
	Engineering II Modern Physics	3. 0	-				Matsuishi		Lectures are conducted in English. Not open in 2020.	۵	It depends on decision of the class instructor	School of Science and Engineering
FJ15001	System Modeling	2. 0	2, 3	SprAB	Wed1, 2		Noriyuki Hori	This course introduces fundamental convests and techniques in building linear, time-inverient, state-space models of typical engineering systems, including translational and rotational mechanical systems, electrical and electronic situations, thermal systems, fluid dystems, and transductors. Analogies are drawn among these systems in different energy domains based on such concept as the across and the through variables, as well as their energy storages and dissipaters. Response characteristics of standard first and decond-order systems are explained, as a prelude to control system designs.	Lectures are conducted in English.	۵	It depends on decision of the class instructor	School of Science and Engineering
	Electronic Circuits	2. 0	-						Lectures are conducted in English. Not open in 2020.	Δ	It depends on decision of the class instructor	School of Science and Engineering
FJIZIUI	Statistical Physics I	1.0	-						Lectures are conducted in English. Not open in 2020.	Δ	It depends on decision of the class instructor	School of Science and Engineering School of Science
FUIZIII	Statistical Physics II Statistical Physics	1.0	-						Lectures are conducted in English. Not open in 2020. Lectures are conducted in English.	Δ	It depends on decision of the class instructor It depends on decision of the class	School of Science and Engineering School of Science
FJIZIZI	Statistical Physics III	1.0	-						Lectures are conducted in English. Not open in 2020. Lectures are conducted in English.	Δ	It depends on decision of the class instructor It depends on decision of the class	School of Science and Engineering School of Science
	Quantum Mechanics I Quantum Mechanics	1.0	-						Not open in 2020. Lectures are conducted in English.	Δ	instructor It depends on decision of the class	and Engineering School of Science
1012221	Advanced	1.0	-						Not open in 2020. Lectures are conducted in English.	Δ	instructor It depends on decision of the class	and Engineering School of Science
E 112211	Electromagnetism I Advanced	1.0	-						Not open in 2020. Lectures are conducted in English.	Δ	instructor It depends on decision of the class	and Engineering School of Science
	Electromagnetism II	1.0	-						Not open in 2020. Lectures are conducted in English. Not open in 2020		instructor It depends on decision of the class	and Engineering School of Science
	Advanced Electromagnetism III Solid State Physics	1.0	-						Not open in 2020. Lectures are conducted in English.	۵	instructor It depends on decision of the class	and Engineering School of Science
FJ12401	I Solid State Physics	1.0 1.0	-						Not open in 2020. Lectures are conducted in English.	Δ	instructor It depends on decision of the class	and Engineering School of Science
E 112411	II Solid State Physics	1.0	-						Not open in 2020. Lectures are conducted in English.		instructor It depends on decision of the class	and Engineering School of Science
1012421	III Control Systems I	1.0	_						Not open in 2020. Lectures are conducted in English. Not open in 2020.		instructor It depends on decision of the class instructor	and Engineering School of Science and Engineering
	Control Systems I	2.0	-						Not open in 2020. Lectures are conducted in English. Not open in 2020.	Δ	Instructor It depends on decision of the class instructor	and Engineering School of Science and Engineering
	Fluid Dynamics I	3. 0	-						Lectures are conducted in English. Not open in 2020.	Δ	It depends on decision of the class instructor	School of Science and Engineering
	International Infectious Diseases	1. 0	3	SprAB	Intens ive		Kaoru Takeuchi,Mizuho Fukushige	In the modern world certain infectious diseases have become human threats, by groweding in a ghort period of time, with nore mobility and severity. In this course, important international infectious diseases are explained on the aspects from microbiology, clinical medicine and disease control.	医療科学類生に限る 4/8-6/30 この期間内(掲示参照) Details will be announced.	۵	Only for regular students	School of Medicine and Health Sciences
HE40052	Research Seminar	4. 0	3	Annua I	by reques t		Emiko Noguchi	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 Lectures are conducted in English.			School of Medicine and Health Sciences
							Koji	This course provides students with the opportunity to make presentations	医病科学新闻院医病科学主事攻学生に			School of Medicine

Course Number	Course Name	Credit s	Standa rd Academ ic Year	Course Offering Term	Weekday and Period	Classro om	Instructor	Course Overview	Remarks	Availability for Non-Degree Student (CREDITED AUDITORS)	Application Conditions, Remarks	Course Offering School/College
HE40131	Clinical Hematology	2. 0	3	FallAB	Intens ive				of the instructor before taking this course. This courses will not be provided in 2020. Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Medicine and Health Sciences
HE40141	Coagulation and Fibrinolysis	1.0	3	FallC	Intens ive			に関する基本的検査法について教授する。 証明・線溶系の検査法の原理と手法、 血小板の機能検査の原理と手法について教授する。	Students should obtain permission of the instructor before taking this course. This courses will not be provided in 2020. Lectures are conducted in English.	Δ	It depends on decision of the class instructor	School of Medicine and Health Sciences
HE40151	Clinical Pathophysiology	2. 0	3	FallAB	Tue/Th u4, 5		Yuichi Aita	様々な変通についての商型を理について詳細に敬好でる。またそれらの奇響と多 増殖は株参数の成果との関連について詳し、様々な特徴において変化する血液器 素などの成分の変動の仕組みを理解させる。患者からもたらされる臨床検査の情 報をいかに均衡に診断で治療に応用したら良いのか、基本的なものの考え方を十 分理解させる。	of the instructor before taking this course. This courses will	Δ	It depends on decision of the class instructor	School of Medicine and Health Sciences
HE40161	Topics in Vascular Biology	1. 0	3, 4	FallAB	Intens ive		Hiromi Yanagisawa, YOSH	ranging from normal vascular development and physiology to molecular	医療科学類学生に限る Lectures are conducted in English. 10/1-12/15 予定(後日掲示)			School of Medicine and Health Sciences
HE40252	Research Seminar	4. 0	3	Annua I	by reques t		Emiko Noguchi	行に必要な基礎的技能の修得および問題解決能力の体得を図る。	国際医療科学主専攻G30コース学生に 限る。 Lectures are conducted in English.			School of Medicine and Health Sciences
HE40263	Seminar on Medeical Sciences	1. 0	3	Annua I	by reques t			らに深める。	国際医療科学主専攻G30コース学生に 限る。 Lectures are conducted in English.			School of Medicine and Health Sciences
HE40273	Graduation Research	8. 0	4	Annual	by reques t				国際医療科学主専攻G30コース学生に 限る。 Lectures are conducted in English.			School of Medicine and Health Sciences