

Integrated Japanese 1			
Registration Code	1a・1c: 0061111, 1b: 0061112	Credits	3.0
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Mon., Wed., Thu. / 1 (8:45~10:15)		
Instructor	1a・1c: Tokuhiro 1b: Hajikano		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(C・Au)・Ag(B)		
<p>●Goals and Objectives of the Course This course aims to provide a basic knowledge of Japanese which will enable students to function effectively in everyday life.</p> <p>●Course Prerequisites Students are required to take a placement test before the beginning of the Fall semester. The course level is decided upon in consultation with teachers. Those students who register for this course should also register for the Japanese Language Seminar (Communication) 1 in the same semester.</p> <p>●Course Contents ①Students will learn comprehensive Japanese, necessary to live both on and off campus. Each lesson will cover new grammar, expressions and vocabulary (including Hiragana, Katakana and Kanji). A short test will be given each lesson. ②Students are required to read textbooks (especially "Elementary Japanese 1 DAICHI Translation of the Main Text and Grammar Notes") as preparation for each lesson.</p> <p>●Evaluation methods Attendance 30%, Class Participation 30%, Mid-term Examination and Final examination 40%</p> <p>●Notice for students Students must maintain course attendance rates of 80% or higher and are required to take mid-term and final examination. Those who fail to meet these requirements will not earn credits. Students are not permitted to withdraw from this course for any reason after the registration. In general, in the case of absence, make-up tests and examinations will not be possible (except in the case of extenuating circumstances). Three late arrivals or early departures of 15 minutes or more will be regarded as a one-lesson absence.</p>			
Textbook (1a, 1b)	1. 『日本語初級1 大地 メインテキスト』 スリーエーネットワーク Elementary Japanese 1 DAICH Main Text 2. 『日本語初級1 大地 文型説明と翻訳<英語版>』 スリーエーネットワーク Elementary Japanese 1 DAICH Translation of the Main Text and Grammar Notes 3. 『日本語初級1 大地 基礎問題集』 スリーエーネットワーク Elementary Japanese 1 DAICH Work Book 4. 『Write Now! Kanji for Beginners』 スリーエーネットワーク		
Reference Book	None		
Reference website			
Message			

Linear Algebra I			
Registration Code	0061211	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Mon. / 2 (10:30~12:00)		
Instructor	BACHMANN Henrik		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Objectives of the course Linearity one of the most fundamental concepts for the handling of quantities in current natural science. Indispensable in quantum mechanics & relativity or fields like computer graphics & machine learning, its use has spread across all branches of natural science and beyond. Linear algebra, developed in the nineteenth century, is the mathematical theory of linearity. The first half of this one-year course focuses on techniques for manipulating systems of linear equations, and the application of these techniques to analytic geometry (in arbitrary dimensions). Emphasis is placed on the ability to think abstractly.</p> <p>●Course Prerequisites No formal prerequisites. Some ability to manipulate systems of linear equations and understanding of elementary geometry will be useful for the understanding of the course material.</p> <p>●Course Contents Linear systems, Gaussian elimination, matrices, vectors, linear maps, matrix multiplication, the inverse of a linear map, subspaces of \mathbb{R}^n, image and kernel, linear independence, bases, dimension, coordinates, orthogonal bases, the Gram–Schmidt algorithm, QR factorization, orthogonal complement, orthogonal maps, least square approximations.</p> <p>●Evaluation methods There will be two main, written exams (which might be done online): midterm (30%) and final (40%). Additionally, there will be homework assignments (20%) and quizzes (10%). The grading scale will be A+, A, B, C, C-, F. The evaluation methods might change depending on the current covid-19 situation.</p> <p>Students do not need to submit a Course Withdrawal Form for course withdrawal. Anyone who does not attend the final exam will receive the grade “Absent”.</p> <p>●Notice for students The Reference Book is available in the Main library and in the Science library (enough copies in total for all students). Additional helpful references will be presented at the beginning of the first lecture. Every information will be available on the course homepage: https://www.henrikbachmann.com/la1_2020.html Please check this page regularly for updates and for all materials.</p> <p>It is <i>strongly</i> recommended to also follow the course Mathematics Tutorial I b.</p>			
Textbook	None		
Reference Book	Otto Bretscher: <i>Linear Algebra with Applications</i> , fourth edition, Pearson 2009. ISBN: 978-0-13-600926-9		
Reference website	https://www.henrikbachmann.com/la1_2020.html		
Message			

Fundamentals of Chemistry I			
Registration Code	0061311	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Mon. / 3 (13:00~14:30)		
Instructor	PHUNG Quan Manh		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>● Goals and Objectives of the Course The purpose of this course is to grasp what chemistry is all about and to learn important principles and facts in chemistry. The course begins with atomic structure, proceeds next to bonding and molecules, and further to bulk physical properties of substances.</p> <p>● Course Prerequisites: None</p> <p>● Course Contents/Plan 1 Chemical Tools: Experimentation and Measurement (Ch. 1) 2 Atoms, Molecules and Ions (Ch. 2) 3 Mass Relationships in Chemical Reactions (Ch. 3) 4 Reactions in Aqueous Solutions (Ch. 4) 5 Discussion & Online Quiz (Chs. 1 – 4) 6 Periodicity and the Electronic Structure of Atoms (Ch. 5) 7 Ionic Compounds: Periodic Trends and Bonding Theory (Ch. 6) 8 Covalent Bonds and Molecular Structure (Chs. 7–8) 9 Thermochemistry: Chemical Energy (Ch. 9) 10 Discussion & Online Quiz (Chs. 5 – 9) 11 Gases: Their Properties and Behavior (Ch. 10) 12 Liquids, Solids, and Phase Changes (Chs. 11–12) 13 Solutions and Their Properties (Ch. 13) 14 Pre-final Review 15 FINAL EXAM (Chs. 1 – 13)</p> <p>● Course Evaluation Methods Two online Quizzes: 50 points each. Final Exam (comprehensive): 200. Homework: 50. TOTAL: 350. Grade "S": 100-90% (315 or more points), "A": 89-80% (314 - 280 pts), "B": 79-70% (279 - 245 pts), "C": 69-60% (244 - 210 pts), "F": 59-0% (fewer than 210 pts).</p> <p>- Course Withdrawal Yes. The last day to withdraw without academic penalty is the last class day in November.</p> <p>- Criteria for "Absent" & "Fail" Grades The "Absent" grade is reserved for students that withdraw by last class day in November. After that day, a letter grade will be awarded based on grades earned from all assignments during the semester.</p> <p>● Notice for Students It is essential to sit in the quizzes and final exam during the scheduled class time. There will be NO make-up exam. In the event of a missed exam due to a serious illness, accident or family emergency, compelling written documentation of the reason for the absence will be required. If the reason is accepted, the final grade will be calculated from the appropriately weighted average from the rest of the exams. If the reason will be deemed insufficient, the absence will be unexcused, and zero points will be awarded for the missed exam.</p> <p>Attendance is necessary for successful completion of this course. No points will be awarded for attending lectures, but attendance may be taken.</p> <p>Homework is crucial for mastering new material and developing skills in applying concepts. Weekly homework will be either on paper or electronic. Homework is due at the beginning of class on the due date. A general guideline says an average of 2 to 3 hours of study time per week is necessary for each 1 credit hour.</p>			

Quizzes and the final Exam focus on problem solving, and exam questions will be similar to the homework problems. Quizzes and Exam grades will be posted in the Gradebook on the Course website before next class period.

Cell phones must be turned off during lecture.

Textbook	Chemistry (J. K. Robinson, J. McMurry, and R.C. Fay), 8th Ed. (Global Edition E-Text , bundled with Mastering Chemistry) Pearson, 2020
Reference Book	None
Reference website	
Message	

Fundamentals of Earth Science I			
Registration Code	0061411	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Mon. / 4 (14:45~16:15)		
Instructor	HUMBLET Marc Andre		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course The study of planet Earth embraces a wide range of topics, from the formation of rocks to the evolution of life, from continental drift to the study of earthquakes and volcanoes. In this course, fundamental concepts of earth science will be covered. Students will be introduced to plate tectonics, the fundamental theory underlying the geological processes which have shaped the environment in which we live and continue to modify the landscape, from the slow, progressive uplift of mountains to violent earthquakes and volcanic eruptions. Students will learn how the Earth recycles matter and how minerals and rocks form and are transformed; how the age of rocks and geological events can be determined, which is central to earth science; how the Earth's geography has changed and how life has evolved during Earth's 4.5-billion-year history. Besides providing a basic and up-to-date knowledge of essential concepts of earth science, the aim of this course is to stimulate the interest and curiosity of students for the study of planet Earth and provoke questions, comments, and discussions about issues related to earth science.</p>			
<p>●Course Prerequisites None</p>			
<p>●Course Contents/Plan</p> <ol style="list-style-type: none"> 1. Earth Sciences: an introduction 2. The solar system 3. Plate tectonics 4. Minerals: rock's elementary building blocks 5. Rocks and rock cycle I: igneous rocks 6. Rocks and rock cycle II: sedimentary rocks 7. Rocks and rock cycle III: metamorphic rocks 8. The age of rocks 9. Earth history I: paleogeography 10. Earth history II: origin and evolution of life 			
<p>●Course Evaluation Methods Online quizzes: 60% Written essay: 30% Oral presentation: 10%</p>			
<p>Students who enrolled in 2020 will be graded using the six-step A+, A, B, C, C-, and F grade evaluation system (A+: 100-95%, A: 94-80%, B: 79-70%, C: 69-65%, C-: 64-60%, F: 59 % or less).</p>			
<p>Students who enrolled in 2019 or before will be graded following the five-step S-A-B-C-F grade evaluation system (S: 90-100%, A: 80-89%, B: 70-79%, C:60-69%, F: 59-0%).</p>			
<p>A student will be given an "Absent" grade if he or she submits a Course Withdrawal Request by the 15th of November. This deadline does not apply to students who drop the class part-way through for an exceptional reason (e.g. illness, accident). Also, NUPACE students should check the deadline set by the NUPACE program for course withdrawal.</p>			
<p>●Notice for Students Lectures will be given online. The online Nagoya University Collaboration and Teaching Tools (NUCT) will be used to upload teaching material and organize quizzes.</p>			

Textbook	There is no required textbook for this course. Please refer to the recommended reading below for an additional source of information.
Reference Book	Title: Understanding Earth Authors: John Grotzinger & Thomas H. Jordan Publisher: W. H. Freeman Issue year: 2014 (7 th edition) ISBN: 978-1464138744
Reference website	None
Message	There are no specific office hours for personal consultation outside class time. However, students are encouraged to make an appointment by e-mail beforehand.

Past and Present of Democracy			
Registration Code	0061511	Credits	2.0
Course Category	Arts Liberal		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Mon. / 5 (16:30~18:00)		
Instructor	GREEN David James		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course</p> <p><u>Goals</u> – Although American political influence is arguably on the decline in recent years, the US remains the closest thing to a hegemon in the international system. The inner workings of the American political system are also somewhat unique compared to other countries. This course aims to provide students with a basic understanding of how politics work in the US, explaining the legislative, executive and judicial processes, as well as discussing other major players in the American political system and some current political issues. This not only helps to understand the workings of one of the world's major powers, but can serve as a useful comparison to the political workings of other countries.</p> <p><u>Objectives</u></p> <p>Stemming from comparative politics, this course aims give students a broad understanding of American politics and the American political system. We will review the major political components of the US, including the executive, legislative and judicial branches of government, non-governmental actors, and cover some current events in the latter part of the course.</p> <p>●Course Prerequisites</p> <p>No prerequisites for this course are required. However, students should have a good command of the English language and come to class willing to discuss the week's topic.</p> <p>●Course Contents/Plan</p> <p>Week 1 – course introduction Week 2 – origins of the US political system Week 3 – US political culture Week 4 – congress Week 5 – the presidency Week 6 – the courts Week 7 – the bureaucracy Week 8 – midterm evaluation Week 9 – voting and elections Week 10 – political parties Week 11 – interest groups Week 12 – the media Week 13 – current issues #1: civil disobedience Week 14 – current issues #2: the presidential election Week 15 – concluding summary and evaluation</p> <p>●Course Evaluation Methods</p> <p>Participation – 10% Weekly assignments – 30% Midterm exam – 25% Final exam – 35% Course withdrawal is possible up to one month after class starts or by special permission from the instructor.</p> <p>●Notice for Students</p> <p>Information regarding the paper assignment will be distributed after the midterm evaluation.</p>			
Textbook	Jillson, Cal. 2018. <i>American Government: Political Development and Institutional Change</i> , 9 th edition. New York: Routledge.		

Reference Book	Additional references will be announced in class
Reference website	
Message	

Japanese Language Seminar (Communication) 1			
Registration Code	1b・1c: 0062111 1a: 0062112	Credits	3.0
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 1 (8:45~10:15)		
Instructor	1b・1c: Tokuhiro 1a: Hajikano		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(C・Au)・Ag(B)		
<p>●Objectives of the course This course aims to provide a basic knowledge of Japanese which will enable students to function effectively in everyday life. It emphasizes oral practice utilizing the material students learned in Integrated Japanese 1. This course also aims to cover reading and writing of simple sentences. The textbooks are the same as Integrated Japanese 1.</p> <p>●Course Prerequisites Students are required to take a placement test before the beginning of the Fall semester. The course level is decided upon in consultation with teachers. Those students who register for this course should also register for Integrated Japanese 1 in the same semester.</p> <p>●Course Contents ①Each lesson will cover grammar, expressions and vocabulary learned in Integrated Japanese 1 and practiced in short skits. Reading and writing are also covered. A short test will be given each lesson. ②Students are required to read textbooks (especially "Elementary Japanese 1 DAICHI Translation of the Main Text and Grammar Notes") as preparation for each lesson.</p> <p>●Evaluation methods Attendance 30%, Class Participation 30%, Mid-term Examination and Final examination 40%</p> <p>●Notice for students Students must maintain course attendance rates of 80% or higher and are required to take mid-term and final examination. Those who fail to meet these requirements will not earn credits. Students are not permitted to withdraw from this course for any reason after the registration. In general, in the case of absence, make-up tests and examinations will not be possible (except in the case of extenuating circumstances). Three late arrivals or early departures of 15 minutes or more will be regarded as a one-lesson absence.</p>			
Textbook (1a, 1b)	1. 『日本語初級1 大地 メインテキスト』 スリーエーネットワーク Elementary Japanese 1 DAICH Main Text 2. 『日本語初級1 大地 文型説明と翻訳<英語版>』 スリーエーネットワーク Elementary Japanese 1 DAICH Translation of the Main Text and Grammar Notes 3. 『日本語初級1 大地 基礎問題集』 スリーエーネットワーク Elementary Japanese 1 DAICH Work 4. 『Write Now! Kanji for Beginners』 スリーエーネットワーク		
Reference Book	None		
Reference website			
Message			

Fundamentals of Physics I			
Registration Code	0062211	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. & Thu. / 2 (10:30~12:00)		
Instructor	SHIGEMORI Masaki		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course Fundamentals of Physics I (FP I) is the first of three lecture courses (FP I–III) designed to cover the basic classical physics to provide a firm foundation for learning science and engineering. This course introduces the concepts and laws of classical mechanics. Further topics in mechanics will be covered in FP II.</p> <p>●Course Prerequisites Students without a good background in high school physics and basic calculus are advised to review those materials as soon as possible and would be expected to spend more time and effort for the course. This must be considered when deciding your course load. Students are expected to participate actively in class activities throughout the course.</p> <p>●Course Contents/Plan The topics include kinematics, vectors, force and motion, energy, work and momentum, and are based on the following chapters in the textbook: Chapter 2: Motion Along a Straight Line Chapter 3: Vectors Chapter 4: Motion in Two and Three Dimensions Chapter 5: Force and Motion I Chapter 6: Force and Motion II Chapter 7: Kinetic Energy and Work Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Center of Mass and Linear Momentum Some examples of problem solving will be discussed in lectures, but the companion course, Fundamental Physics Tutorial Ia, is designed to develop students' problem solving skills.</p> <p>●Course Evaluation Methods Class attendance is required. Absentees must give a valid reason (e.g. doctor's certificate). Students need to submit a Course Withdrawal Request Form when requesting course withdrawal. The "W" grade is reserved for students who withdraw just after the final exam. After that day, a letter grade will be awarded based on marks earned from all assessment during the semester. Class attendance: 5%, Assignments: 25%, Exams (midterm and final): 70%.</p> <p>●Notice for Students Concurrent registration of Fundamental Physics Tutorial Ia is strongly advised because it is necessary for mastering the content of the lectures.</p> <p>Related courses: Calculus I & II, Linear Algebra I & II, Fundamentals of Physics II & III.</p>			
Textbook	Fundamentals of Physics Extended 11th Edition International Student Version with WileyPLUS Set (John Wiley & Sons, 2018 ISBN: 978-1119460138)		
Reference Book	Feynman Lectures On Physics (Vol.1) by Richard P. Feynman (Pearson PTR)		
Reference website			
Message			

Fundamentals of Physics II			
Registration Code	0062212	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. & Thu. / 2 (10:30~12:00)		
Instructor	TAMA Florence Muriel		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course Physics is at the foundation of science and engineering. This is the second of a series of four courses that cover the fundamentals of physics. The first 2/3 of this course covers further topics in mechanics: equilibrium and elasticity, gravitation, oscillations and the remaining 1/3 of the course introduces thermal physics. Besides learning to solve problems within each topic, students will also learn to solve problems that cut across these topics.</p> <p>●Course Prerequisites To take Fundamentals of Physics II, you must also enroll in Fundamentals of Physics I. (You cannot study Fundamentals of Physics II without taking Fundamentals of Physics I first.) -Note that this course commences after Fundamentals of Physics I; nevertheless, you must register for it during the normal registration period in the first few weeks of semester. -Concurrent registration for Fundamental Physics Tutorial is required. -Students are expected to participate actively in class activities throughout the course. Students without a good background in high school physics and basic calculus are expected to have to spend more time in this course and are advised to take this into consideration when deciding their course load.</p> <p>●Course Contents/Plan Chapter 10: Rotation Chapter 11: Rolling, Torque, and Angular Momentum Chapter 12: Equilibrium Chapter 13: Gravitation Chapter 15: Oscillations Chapter 18: Temperature, Heat, and the First Law of Thermodynamics Chapter 19: The Kinetic Theory of Gases Chapter 20: Entropy and the Second Law of Thermodynamics</p> <p>●Course Evaluation Methods Class attendance is required. Absentees must give a valid reason (e.g. doctor's certificate). Students need to submit a Course Withdrawal Request Form when requesting course withdrawal. The "W" grade is reserved for students who withdraw just after the final exam. After that day, a letter grade will be awarded based on marks earned from all assessment during the semester. Intermediate tests: 50%; Final Exam: 50%</p> <p>●Notice for Students Students gain a functional understanding of introductory mechanics and thermal physics. They are able to solve problems that may cut across the topics and are able to appreciate the physics underlying their studies in other science and engineering disciplines. They are prepared for the next course in the series: Fundamentals of Physics III.</p> <p>Related courses: Calculus I, Calculus II, Linear Algebra I, Linear Algebra II, Fundamentals of Physics I, III.</p>			
Textbook	Fundamentals of Physics Extended 10th Edition International Student Version with WileyPLUS Set (John Wiley & Sons, 2014 ISBN: 9781118230749)		
Reference Book	Feynman Lectures in Physics (Vol.1) by Richard Feynman (Pearson P T R)		
Reference website			
Message			

Academic English Advanced 1			
Registration Code	0062311	Credits	2.0
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 3 (13:00~14:30)		
Instructor	MORITA Liang		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Ag(B)		
<p>●Goals and Objectives of the Course To develop academic writing, presentation and research skills.</p> <p>●Course Prerequisites None.</p> <p>●Course Contents/Plan Paragraph writing, essay writing and presentations. Students will also be assigned academic papers to read. We will work on conciseness, clarity etc. in writing, as well as referencing. Students will give presentations in class, and work towards more effective presentation skills. We will also study academic papers to learn about their structure and components, in preparation for your graduation thesis.</p> <p>●Course Evaluation Methods 40% participation, 30% writing and 30% presentation. Please notify the instructor with a Course Withdrawal Request if you are dropping out of the course.</p> <p>●Notice for Students None.</p>			
Textbook	None.		
Reference Book	None.		
Reference website	None.		
Message	None.		

Perspectives in Mathematical Science IV			
Registration Code	0082381	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 3 (13:00~14:30)		
Instructor	OHIRA Toru, FUJIE Futaba, JAERISCH Johannes		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·En(C·Au)·Ag(B)		
For information on syllabus, please refer to the School of Science's one.			

View of Advanced Electrical, Electronic and Information Engineering			
Registration Code	0082382	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 3 (13:00~14:30) & 4 (14:45~16:15)		
Instructor	HASEGAWA Hiroshi		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·Ag(B)		
For information on syllabus, please refer to the School of Engineering's one.			

Mathematics Tutorial 1a			
Registration Code	0062411	Credits	1.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 4 (14:45~16:15)		
Instructor	RICHARD Serge		
Target Schools (Programs)	La(S)·Ec(S)		
<p>●Goals and Objectives of the Course The aim of this course is to deepen the understanding of calculus and to cultivate the ability to apply mathematical knowledge. The course is mainly intended for students taking Calculus I. Students will have the opportunity to manipulate the various notions introduced during the lectures.</p> <p>●Course Prerequisites Some basic knowledge on calculus from high school is assumed, including differentiation and integration of polynomial functions.</p> <p>●Course Contents/Plan Exercises sheets will be provided each week before the tutorial, and will be available on the web site of the course. Homework will be due every week during the tutorial. Solutions to the exercises will then be posted on the web site.</p> <p>●Course Evaluation Methods The final grade will be determined by homework (50%) and quizzes (50%). The grading scale will be A+, A, B, C, C-, F. This course uses the course withdrawal system. It is necessary to submit a Course Withdrawal Request Form when the student has no intention of finishing the course during the semester.</p> <p>●Notice for Students Students are expected to read their notes, and to be familiar with the content of the lectures of Calculus I before each tutorial sessions.</p>			
Textbook	Free reference books and lecture notes are available on the website of the course		
Reference Book	Free reference books and lecture notes are available on the website of the course		
Reference website	http://www.math.nagoya-u.ac.jp/~richard/fall2020.html		
Message	Visit the website before the first tutorial session for updated information		

Mathematics Tutorial 1b			
Registration Code	0062412	Credits	1.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1 st year, Fall Semester) / Tue. / 4 (14:45~16:15)		
Instructor	BACHMANN Henrik		
Target Schools (Programs)	La(S)·Ec(S)		
<p>●Objectives of the course The aim of this course is to provide essential mathematical knowledge necessary to further study mathematics and other sciences at university level. The course is intended for students taking Linear algebra I.</p> <p>●Course Prerequisites High-school level mathematics.</p> <p>●Course Contents Linear systems, Gaussian elimination, matrices, vectors, linear maps, matrix multiplication, the inverse of a linear map, subspaces of \mathbb{R}^n, image and kernel, linear independence, bases, dimension, coordinates, orthogonal bases, the Gram–Schmidt algorithm, QR factorization, orthogonal complement, orthogonal maps, least square approximations.</p> <p>●Evaluation methods The assessment of this course coincides with the assessment of the course Linear Algebra I.</p> <p><i>Course withdrawal:</i> Any student who does not participate in the final exam will receive the grade “W”. It is not necessary to submit a course withdrawal request form.</p> <p>●Notice for students The reference book is available in the Main library and in the Science library (enough copies in total for all students).</p> <p>It is <i>strongly</i> recommended to register also to Linear algebra I.</p> <p>Every information will be available on the course homepage: https://www.henrikbachmann.com/la1_2020.html Please check this page regularly for updates and for all materials.</p>			
Textbook	None		
Reference Book	Otto Bretscher: <i>Linear Algebra with Applications</i> , fourth edition, Pearson 2009. ISBN: 978-0-13-600926-9		
Reference website	https://www.henrikbachmann.com/la1_2020.html		
Message			

German 1			
Registration Code	0022502	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 5 (16:30~18:00)		
Instructor	MURAMOTO Mai		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

French 1			
Registration Code	0022503	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 5 (16:30~18:00)		
Instructor	BAUMERT Nicolas		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Russian 1			
Registration Code	0022504	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 5 (16:30~18:00)		
Instructor	YAMAJI Asuta		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Chinese 1			
Registration Code	0022505	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 5 (16:30~18:00)		
Instructor	YU Ping		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Spanish 1			
Registration Code	0022506	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 5 (16:30~18:00)		
Instructor	SHIBA Ayako		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Korean 1			
Registration Code	0022507	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Tue. / 5 (16:30~18:00)		
Instructor	KUROSAKI Keiko		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

First Year Seminar A			
Registration Code	0063211	Credits	2.0
Course Category	Basic GE, 1Y Seminar		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 2 (10:30~12:00)		
Instructor	OGAWA Shota		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)		
<p>●Goals and Objectives of the Course The goal of this course is to provide the basic training necessary for the kind of courageous intellectual endeavors espoused by the Nagoya University Academic Charter. To be more specific, the course will introduce students to the basic skills in academic reading, writing, and argumentation which collectively form the basis for critical thinking. Using film studies as a guiding framework, students will gain hands-on experiences in conducting textual close reading, finding primary and secondary sources, and engaging with existing ideas. In accordance with the objectives for Liberal Arts and Sciences Education, this course aims to cultivate comprehensive thinking abilities, cosmopolitan commitment to acquiring a pluralistic understanding of the world, and to nurture a sense of intellectual curiosity that is formative for various academic disciplines. Through the reading assignments, students will explore the complex phenomenon of human migration and the various responses it has elicited from filmmakers, media industries, and critics and researchers.</p> <p>●Course Prerequisites There are no prerequisites for taking this course. Students are expected, however, to have basic knowledge in academic composition</p> <p>●Course Contents/Plan UNIT 1: Introduction to the Aesthetics of “Mobilities” W1 W2 W3 UNIT 2: Historicizing Émigré and Immigrant Filmmakers W4: Summary and Evaluation (take home assignment) W5 W6 W7 UNIT 3: Debating the Aesthetics of Exile’s Cinema W8: W9 Interim Summary and Evaluation (take home assignment) W10 Interim Summary and Evaluation (presentation) W11 W12 UNIT 4: Recontextualizing Empire W13 Summary and Evaluation (peer-review exercise and draft) W14 W15 W16 Summary and Evaluation (final paper and presentation)</p> <p>●Course Evaluation Methods 95-100%=A+, 90-94=A, 80-89=B, 70-79=C, 60-69=C-, 0-59=F, Students do not need to submit a Course withdrawal Request Form for course withdrawal. Those who miss more than 4 weeks without valid excuses will receive an "W(Absent)" grade Discussion participation - 15%; Paper 1 (Criticism Article) - 20%; Abstract 10% ; Final Paper Draft 5%; Peer Review 10% ; Final Paper 20%; Presentations 20%</p> <p>●Notice for Students Please be sure to check the NUCT class page for further updates</p>			

Textbook	Materials will be informed in class if necessary
Reference Book	Materials will be informed in class if necessary
Reference website	
Message	Please be sure to check the NUCT class page for further updates

First Year Seminar A			
Registration Code	0063212	Credits	2.0
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 2 (10:30~12:00)		
Instructor	DOI Yasuhiro		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)		
<p>●Objectives of the course To study social sciences, it is necessary to understand social problems and analyze them with appropriate academic tools. In this First Year Seminar students have to pick up one particular social problem, conduct a short research and make a presentation in a manner of the social science. Students study how to use data, academic methods and also how to create a good presentation.</p> <p>●Course Prerequisites None</p> <p>●Course Contents At first, students will learn the frameworks of the presentation and how to make a research. Each student has to give a 30 Min presentation of a topic which he/she chooses.</p> <p>●Evaluation methods Attendance and Evaluation of each student's presentation. Students who decide to withdraw from the course should inform me in writing by November 25th, and provide me with a copy of the designated form ("Course Withdrawal Form").</p> <p>●Notice for students Please find a topic which you are interested in the most in our society. Students should try to explain the mechanism and the main factor(s) of the problem clearly. Any selected topic will be accepted to give a presentation, even the instructor is from the School of Economics and advices mainly from the view point of the economics and academic perspectives in general.</p> <p>*** It is possible that I may provide you online lectures and opportunities for online presentation, if there are restrictions because of corona virus.</p>			
Textbook	None		
Reference Book	None		
Reference website	None		
Message	You will be provided opportunities to start organizing your own research in this seminar.		

First Year Seminar A			
Registration Code	0063213	Credits	2.0
Course Category	Basic GE, 1Y Seminar		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 2 (10:30~12:00)		
Instructor	HUMBLET Marc Andre		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course</p> <p>The seminar is divided into two parts. The first part provides tips on how to search for information and how to give an oral presentation. This is followed by a discussion on centered on the definition of science and the difference between science and pseudoscience. A few lectures on coral reef ecosystems will serve as examples of how science can be communicated. The students will learn about the different kinds of reefs, the biology of corals and coral reefs, the factors controlling reef growth, the present-day threats on coral reefs, and the geological evolution of reefs. Students will also be able to examine hand-sized samples of coral reef limestones and observe thin sections under a microscope. During the second part of the seminar, the students will give two presentations each about any scientific subjects of their choice related to the marine or freshwater world. The fields covered can be as varied as underwater exploration technologies, marine biology, water in the solar system, hydroelectric energy... Each presentation is followed by a Q&A session. Class participation is strongly encouraged.</p> <p>The basic objectives of this seminar are (1) to teach students how to search for scientific information, (2) to encourage critical thinking, (3) to improve presentation skills, (4) to nurture scientific curiosity, and (5) to promote exchange of ideas about various scientific topics.</p> <p>●Course Prerequisites</p> <p>None</p> <p>●Course Contents/Plan</p> <ol style="list-style-type: none"> 1. Introduction: tips on information search and oral presentation 2. What is science? 3. Science vs. pseudoscience 4. Coral reefs: diversity, past evolution and future trends 5. Lab session 6. Oral presentations by students <p>●Course Evaluation Methods</p> <p>The grading is based on class participation (30%) and oral presentations (70%).</p> <p>Students who enrolled in 2020 will be graded using the six-step A+, A, B, C, C-, and F grade evaluation system (A+: 100-95%, A: 94-80%, B: 79-70%, C: 69-65%, C-: 64-60%, F: 59 % or less).</p> <p>Students who enrolled in 2019 or before will be graded following the five-step S-A-B-C-F grade evaluation system (S: 90-100%, A: 80-89%, B: 70-79%, C:60-69%, F: 59-0%).</p> <p>A student will be given an “Absent” grade if he or she submits a Course Withdrawal Request by the 15th of November. This deadline does not apply to students who drop the class part-way through for an exceptional reason (e.g. illness, accident). Also, NUPACE students should check the deadline set by the NUPACE program for course withdrawal.</p>			

•Notice for Students

The seminar will be given online. The online Nagoya University Collaboration and Teaching Tools (NUCT) will be used to upload teaching material.

Textbook	None
Reference Book	None
Reference website	None
Message	There are no specific office hours for personal consultation outside class time. However, students are encouraged to make an appointment by e-mail beforehand.

First Year Seminar A			
Registration Code	0063214	Credits	2.0
Course Category	Basic GE, 1Y Seminar		
Term (Semester) / Day / Period	G-I (1 st year, Fall Semester) / Wed. / 2 (10:30~12:00)		
Instructor	TAMA Florence Muriel		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course This course aims to discuss contemporary scientific issues. The students will be given the opportunity to work in group to exchange ideas as well as to develop presentation skills. Students will have to research information related to the weekly theme. In addition, the students will give presentations choosing a topic from a provided list.</p>			
<p>●Course Prerequisites None</p>			
<p>●Course Contents/Plan The course will focus/discuss on several aspects including: scientific news, interdisciplinary research, research ethics, reviewing process of scientific publications, funding and science.</p>			
<p>●Course Evaluation Methods</p> <p>Criteria for Absent and Fail grade: Students need to submit a Course Withdrawal Request Form when requesting course withdrawal. The “Absent” grade is reserved for students who withdraw at any point during the course. Students will be graded following the A+, A, B, C, C- and F grade evaluation system The grade will be based on class participation and presentation.</p>			
<p>●Notice for Students</p>			
Textbook	None		
Reference Book	None		
Reference website			
Message			

First Year Seminar A			
Registration Code	0063215	Credits	2.0
Course Category	Basic GE, 1Y Seminar		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 2 (10:30~12:00)		
Instructor	DARPOE Erik Olof		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course</p> <ol style="list-style-type: none"> 1. To gain knowledge of some of the fundamental notions underlying modern mathematics; including sets, functions, relations, induction, integers, rational and real numbers; 2. to get acquainted with mathematical methods and reasoning, including proofs; 3. to practice oral and written presentational skills. <p>●Course Prerequisites A good command of high school mathematics.</p> <p>●Course Contents/Plan Logic and proofs, sets, functions and relations, equivalence relations, induction, integers, rational numbers, Cauchy sequences and real numbers. Additional subjects may be covered depending on the interests of the participants.</p> <p>●Course Evaluation Methods Homework assignments and oral presentations. The precise form will be determined</p> <p><i>Course withdrawal:</i> Participating students may withdraw from the course by submitting a course withdrawal form to the teacher.</p> <p>●Notice for Students</p>			
Textbook	None		
Reference Book	Steven Galovich: <i>Introduction to mathematical structures</i> , Harcourt Brace Jovanovich Publishers, San Diego, 1989. ISBN-13: 978-0155434684. Edmund Landau: <i>Foundations of analysis</i> , Chelsea Publishing Company, New York; 3rd edition, 1966.		
Reference website			
Message			

Fundamentals of Biology I			
Registration Code	0063311	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 3 (13:00~14:30)		
Instructor	CARTAGENA Joyce Abad		
Target Schools (Programs)	Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>● Goals and Objectives of the Course The objective of this course is to introduce the key concepts of biology and provide the foundation for specialized courses. Furthermore, this course aims to encourage students to think like scientists and develop scientific reasoning and literacy skills.</p> <p>● Course Prerequisites A background in basic Biology from high school is not absolutely required but is ideal.</p> <p>● Course Contents/Plan CELLULAR REPRODUCTION AND GENETICS The Cellular Basis of Reproduction and Inheritance Patterns of Inheritance Molecular Biology of the Gene How Genes Are Controlled DNA Technology and Genomics</p> <p>CONCEPTS OF EVOLUTION How Populations Evolve The Origin of Species Tracing Evolutionary History</p> <p>THE EVOLUTION OF BIOLOGICAL DIVERSITY Microbial Life: Prokaryotes and Protists The Evolution of Plant and Fungal Diversity The Evolution of Invertebrate Diversity The Evolution of Vertebrate Diversity</p> <p>PLANTS: FORM AND FUNCTION Plant Structure, Growth, and Reproduction Plant Nutrition and Transport Control Systems in Plants</p> <p>● Course Evaluation Methods Attendance and class participation 30% Home works 20% Examinations 50%</p> <p>● Notice for Students 1. Course webpage NUCT (Nagoya University Collaboration and Course Tools; https://ct.nagoya-u.ac.jp/portal) is an online system that will be used for this course. PowerPoint slides, other learning materials (such as videos, websites, etc.) and home works will be accessible through this page.</p> 2. Attendance In case of emergency or absence from class, students should notify the instructor as soon as possible either by email or phone.			

<p>3. Make-up exam Make-up exams may be given on condition that the student can provide acceptable reasons for his/her absence.</p> <p>4. Personal electronics policy Personal electronic devices should not be visible or audible during class time.</p> <p>5. Academic honesty and original work Cheating and copying (including plagiarism) will not be tolerated in this class.</p> <p>6. Course withdrawal Students who wish to withdraw from the course will have to submit a duly accomplished Course Withdrawal Form by November 18, 2020.</p> <p>7. Reading assignments Students are expected to read one to two chapters of the textbook every week, and come to class prepared for discussion.</p>	
Textbook	Campbell Biology Concepts and Connections 9/e 2019 (Pearson New International Edition) ISBN-10: 1292229470 *or older edition Authors: J. Reece, M. Taylor, E. Simon, J. Dickey
Reference Book	None
Reference website	
Message	

Outline of Engineering 3			
Registration Code	0083381	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 3 (13:00~14:30)		
Instructor	NISHIYAMA Kiyohisa, ZENG Gang, LELEITO Emanuel		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·Ag(B)		
For information on syllabus, please refer to the School of Engineering's one.			

Pre-college Mathematics			
Registration Code	0063411	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 4 (14:45~16:15)		
Instructor	RICHARD Serge		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course This course is a companion course to Calculus I. It aims to help students with little or no precalculus knowledge. Its objective is to provide enough material to students such that they can master the content of Calculus I and be fully equipped for more advanced courses.</p> <p>●Course Prerequisites No prerequisites.</p> <p>●Course Contents/Plan The content of this course will depend on the initial level in mathematics of the students attending it. It will mainly consist in a review of high school mathematics and in an additional help for students attending the course Calculus I.</p> <p>●Course Evaluation Methods Your final grade will be determined by your active participation during the lectures. It is necessary to submit a Course Withdrawal Request Form when a student has no intention of finishing the course during the semester.</p> <p>●Notice for Students This course is an optional subject which does not count towards the number of credits required for graduation in any program at Nagoya University.</p>			
Textbook	Free reference books and lecture notes are available on the website of the course		
Reference Book	Free reference books and lecture notes are available on the website of the course		
Reference website	http://www.math.nagoya-u.ac.jp/~richard/fall2020.html		
Message	Visit the website before the first lecture for updated information		

Introduction to Intercultural Competence

Registration Code	0083481	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1 st year, Fall Semester) / Wed. / 4 (14:45~16:15)		
Instructor	KUSUMOTO Keiko		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		

●Goals and Objectives of the Course

This course aims to 1) acquire knowledge and deepen their understanding of the important concepts of Intercultural Competence and 2) learn how to cultivate it in order to be able to communicate effectively in cross-cultural situations and to relate appropriately in a variety of cultural contexts.

●Course Prerequisites

Students should hold an English level equal or above of: TOEFL PBT 523, TOEFL iBT 70, IELTS 5.5, TOEIC 730. Maximum number of students: 20 (Students are required to attend the first class)
Classroom: International Education and Exchange Centre (IEEC), Room 207

●Course Contents/Plan

In the first part of the course, students will learn the definition, model and components of Intercultural Competence. Important concepts such as culture, language, identity, prejudice, stereotypes, generalization, ethnocentrism, cultural relativism and etc will be explored in order to have a deeper understanding on the development of Intercultural Competence.

In the second part, students will be involved in discussions, group work and group presentations to develop each component of Intercultural Competence, deepen their understanding on the topics covered, and to learn their application in a real-world setting.

<Schedule>

Oct 7 (W1): Introduction to the course

Oct 14 (W2): Definition of Intercultural Competence

Oct 21 (W3): Intercultural Competence (model and components)

Oct 28 (W4): Defining Culture

Nov 4 (W5): Culture and Language

Nov 11 (W6): Identity

Nov 18 (W7): Prejudice, Stereotypes, Generalization

Nov 25 (W8): Ethnocentrism, Cultural Relativism

Dec 2 (W9): Verbal and Non-verbal communication

Dec 9 (W10): Developing IC (Knowledge)

Dec 16 (W11): Developing IC (Attitude)

Dec 23 (W12): Developing IC (Awareness)

Jan 13 (W13): Developing IC (Skills)

Jan 20 (W14): Presentations

Jan 27 (W15): Presentations

Feb 3 (W16): Presentations (extra day), Submission date of final report

●Course Evaluation Methods

Final report 50% (Final report can be written in either English or Japanese.), Presentation 30%, Participation and attendance 20%, Course withdrawal system applies. Students must submit a course withdrawal form to the course instructor no later than Friday, November 27.

●Notice for Students

Students are expected to read the provided materials before the class and engage actively in discussions with other students.

Basically the course will be given face-to-face. However this may be subject to change depending on Nagoya University's guidelines. Please contact the course instructor beforehand.

Textbook	Materials will be provided in class.
Reference Book	A reference material list will be provided in class.
Reference website	
Message	<p>This course is an introductory course about Intercultural Competence where basic concepts will be introduced and classes will be partially lecture-based teaching. However, it is expected that students discuss and express their opinion actively.</p> <p>For any questions please contact the course instructor, Keiko Kusumoto at : z42492a@cc.nagoya-u.ac.jp</p>

Introduction to Career Development Theory			
Registration Code	0063511	Credits	2.0
Course Category	InterD Liberal		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 5 (16:30~18:00)		
Instructor	NISHIYAMA Kiyohisa, SAKAI Nobuaki, ITO Akiko, LELEITO Emanuel		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Objectives of the Course The objective of this course is to provide skill sets required for effective career development with brief introduction to working culture in Japan. You may need to know how to behave as a team member in a community such as companies, research institutions for effective career development. The skill sets introduced in this lecture includes thinking tools for problem solving and value creation.</p> <p>As the goal of this course, the participants of this course, through lecture and activities, will get fundamental understanding about strategies for how to define problems in complex situations for proposing reasonable solutions as well as notions about the advantages of international students.</p>			
<p>●Course Prerequisites No prerequisites, but the students are expected to proactively join the activities.</p>			
<p>●Course Content The participants will learn methodical part of this lecture through video contents with Q&A session provided by the lecturer. At the first phase of this lecture, mind mapping, brain storming and KJ method will be introduced as an effective strategy for team working. Then, some methodologies for problem solving from VE (Value Engineering) and TRIZ will be introduced. The participants will be asked to analyze real problems and propose solutions with respect to the methodologies. At the end of this lecture, the students will be asked to make final presentation exploiting the skill sets introduced through the course.</p>			
<p>●Evaluation Methods Report assignments: 60% Final presentation: 40%</p>			
<p>●Notice for Students</p> <ol style="list-style-type: none"> 1. In order to conduct activities and group work effectively, the class capacity is limited to a maximum of 20 students. Please ensure to attend the first class. If the number of students exceeds the stipulated class size, the course coordinator will advise students on registration policy. 2. Students are required to have an assignment submission rate of 80% or higher. The students who do not satisfy the required submission rate will not be allowed to submit final presentation and will earn a 'fail'. 3. Any instance of a student falsely presenting work that is not their own (e.g. plagiarism, cheating) is academic fraud and taken seriously by the University. Consequences may include failure of the assignment or course, suspension, or expulsion. 4. Need to submit a Course Withdrawal Request Form when students have no intention of finishing a course during the semester. 			
Textbook	None. Course materials will be distributed in the class		
Reference Book	Richard N. Bolles, What Color Is Your Parachute? 2014: A Practical Manual for Job-Hunters and Career-Changers. Ten Speed Press, 2013		

Agricultural Sciences			
Registration Code	0083581	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 5 (16:30~18:00)		
Instructor	INOUE Naoko		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)		
For information on syllabus, please refer to the School of Agricultural Science's one.			

Special Mathematics Lecture (Mathematics for Machine Learning)			
Registration Code	0063611	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Wed. / 6 (18:15~19:45)		
Instructor	BACHMANN Henrik		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course Machine learning became a popular and really broad field in recent years. Machine learning algorithms are used in a wide variety of applications, such as email filtering, computer vision, medicine, language translation, computer games, economic, etc.. The goal of this course is to give a brief introduction into machine learning with a focus on the mathematical tools used.</p> <p>●Course Prerequisites Basic knowledge in Linear Algebra and Calculus is helpful. We will also do some programming in Python. Programming knowledge are useful but not necessary since a rough introduction to programming in Python will be part of the course. Motivated 1st-year students can also attend without these prerequisites if they contact the lecturer beforehand. Due to the programming part of the lecture, students should have (access to) a computer/laptop.</p> <p>●Course Contents/Plan Overview of machine learning, Review Linear Algebra, Introduction to Probability, Programming & doing mathematics in Python, (Linear) Regression, Support vector machines, k-means clustering, Neural networks, Deep learning.</p> <p>Please visit the course homepage for an updated version of the contents for this course.</p> <p>●Course Evaluation Methods The final grade will be based on active participation during the lectures and on some written and programming tasks.</p> <p>●Notice for Students Check the course homepage: https://www.henrikbachmann.com/mml_2020.html</p> <p>This course is an optional subject which does not count towards the number of credits required for graduation in any program at Nagoya University.</p>			
Textbook	Lecture notes will be created during the course.		
Reference Book	https://www.deeplearningbook.org/		
Reference website	https://www.henrikbachmann.com/mml_2020.html		
Message			

Advanced Japanese (Written Presentation) 2

Registration Code	0044113	Credits	2.0
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Thu. / 1 (8:45~10:15)		
Instructor	NAGASAWA Itsuki		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Biotechnology

Registration Code	0064311	Credits	2.0
Course Category	Sciences Liberal		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Thu. / 3 (13:00~14:30)		
Instructor	CARTAGENA Joyce Abad		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course</p> <ol style="list-style-type: none"> 1. To provide basic knowledge on biological processes that will help students understand the science behind the technologies 2. To present examples of actual technology used in the industry 3. To discuss the benefits and drawbacks of Biotechnology to humanity and the environment 4. To provide a venue for students to express their opinions regarding the issues related to Biotechnology <p>●Course Prerequisites None</p> <p>●Course Contents/Plan</p> <p>I. Introduction: The nature of Biotechnology</p> <ol style="list-style-type: none"> 1. Basic Science of Biotechnology 2. Technologies and Tools in Biotechnology I 3. Technologies and Tools in Biotechnology II <p>II. Products of Biotechnology:</p> <ol style="list-style-type: none"> 1. Microbial Biotechnology 2. Plant and Animal Biotechnology 3. Aquatic Biotechnology and Bioremediation 4. DNA Fingerprinting and Forensic Analysis 5. Medical Biotechnology <p>III. Biotechnology Regulations</p> <p>IV. Ethics and Biotechnology</p> <p>●Course Evaluation Methods Attendance and class participation 30% Group presentation 20%</p>			

In-class work/homework 20%

Examination 30%

●**Notice for Students**

1. Course webpage

NUCT (Nagoya University Collaboration and Course Tools; <https://ct.nagoya-u.ac.jp/portal>) is an online system that will be used for this course. PowerPoint slides, other learning materials (such as videos, websites, etc.) and home works will be accessible through this page.

2. Attendance

In case of emergency or absence from class, students should contact the instructor as soon as possible either by email or phone.

3. Make-up exam

Make-up exams may be given on condition that the student can provide acceptable reasons for his/her absence.

4. Personal electronics policy

Personal electronic devices should not be visible or audible during class time.

5. Academic honesty and original work

Cheating and copying (including plagiarism) will not be tolerated in this class.

6. Course Withdrawal

Students who wish to withdraw from the course will have to submit a duly accomplished Course Withdrawal Request by November 19, 2020.

Textbook	None
Reference Book	Introduction to Biotechnology 4/e 2019 (Pearson) ISBN 9780134650197 *or older edition Authors: W.J. Thieman and M.A. Palladino
Reference website	
Message	

Calculus I			
Registration Code	0064511	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Thu. / 5 (16:30~18:00)		
Instructor	RICHARD Serge		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course Analysis is the field of mathematics that describes and analyzes quantitative changes, and the central methods are differential and integral calculus. These methods are essential techniques in natural science, and have recently found increasing applications also in social sciences. The aim of the first half of this one-year course is to provide a solid understanding of functions of one real variable. The students will become familiar with the various tools necessary for the analysis of such functions and for their applications.</p> <p>●Course Prerequisites Some basic knowledge on calculus from high school is assumed, including differentiation and integration of polynomial functions.</p> <p>●Course Contents/Plan <u>1. Limits and continuity:</u> Basic properties of limits of sequences and functions, continuous functions and their basic properties, maxima and minima, asymptotic properties of functions. <u>2. Differentiation:</u> Basic properties of the derivative and its interpretation, mean value theorem, higher derivatives, Taylor series. <u>3. Integration:</u> Riemann integral and its properties, improper integrals, the fundamental theorem of calculus.</p> <p>●Course Evaluation Methods The final grade will be determined by quizzes (30%), the midterm (30%) and a final exam (40%). The grading scale will be A+, A, B, C, C-, F. This course uses the course withdrawal system. It is necessary to submit a Course Withdrawal Request Form when the student has no intention of finishing the course during the semester.</p> <p>●Notice for Students Students are expected to read their notes, and to be familiar with the content of the previous lecture of Calculus I before attending the next lecture.</p>			
Textbook	Free reference books and lecture notes are available on the website of the course		
Reference Book	Free reference books and lecture notes are available on the website of the course		
Reference website	http://www.math.nagoya-u.ac.jp/~richard/fall2020.html		
Message	Visit the website before the first lecture for updated information		

Health and Sports Science: Lecture			
Registration Code	0065211	Credits	2.0
Course Category	Basic GE, Sports		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 2 (10:30~12:00)		
Instructor	KOIKE Teruhiko, SAKAI Takashi		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
<p>●Goals and Objectives of the Course Goals of this course Students improve their lifestyles through behavior change and enhance their ability to protect them from diseases. Objectives of this course 1. Students can gain scientific knowledge about drugs, diet, and exercise. 2. Students can gain basic knowledge about epidemiology and statistics, and increase the ability to interpret the clinical studies 3. Students will experience the effect of behavior change. 4. Students can learn the importance of mental health. 5. Students can learn how to prevent infectious diseases.</p> <p>●Course Prerequisites None</p> <p>●Course Contents/Plan Session 1 Lifestyle (Koike) ① Alcohol and Smoking ② Diet ③ Exercise ④ Obesity and diabetes Session 2 Infectious diseases (Koike) ① How to prevent infection? ② SARS-CoV-2 Covid-19 ③ HIV/AIDS (Koike) Session 3 Brain and Mental Disorder (Sakai) ① Sleep ② Depression ③ Psychoanalysis</p> <p>●Course Evaluation Methods Final exam (50%); Assignment and Quiz (50%) Students who are absent from the final examination will get an “W” grade. Students do not need to submit a Course Withdrawal Form for course withdrawal.</p> <p>●Notice for Students None</p>			
Textbook	None (Reading materials will be available from the Website.)		
Reference Book	None		
Reference website	Nagoya University Collaboration and Course Tools (NUCT)		
Message			

Culture and Psychology			
Registration Code	0085381	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 3 (13:00~14:30)		
Instructor	TANIGUCHI Norihito		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please refer to the School of Education's one. http://www.educa.nagoya-u.ac.jp/docs/syllabus/2020_syllabus/H4022.html			

Introduction to Civil Engineering and Architecture			
Registration Code	0085385	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 3 (13:00~14:30), 4 (14:45~16:15)		
Instructor	NAKAMURA Hideki		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·Ag(B)		
For information on syllabus, please refer to the School of Engineering's one.			

Comparative Studies of Cultures			
Registration Code	0065411	Credits	2.0
Course Category	Arts Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 4 (14:45~16:16)		
Instructor	MC GEE Dylan Patrick		
Target Schools (Programs)	Hu (J)·La (S)·Ec (S)·Sc (P·C·B)·En (C·Au)·Ag (B)		
<p>●Goals and Objectives of the Course This course is a comparative survey of Japanese and Chinese visual storytelling, from the tenth century to the present. We will learn about the aesthetics and affects of different forms of visual media over time, technologies of writing, cultures of reception, and the many roles that manuscript/print/digital media has played as an agent of social change. We will also learn various theories and methods for interpreting visual narrative and consider how readers (as consumers and prosumers) have shaped the dynamics of storytelling over time. All required readings for this course will be in English translation, with some additional materials available in Chinese and Japanese. Prior background in East Asian Studies and/or Japanese and Chinese is recommended but not required.</p>			
<p>●Course Prerequisites There are no academic prerequisites for this class. However, in order to ensure an optimal learning experience, you are strongly encouraged to have the following:</p> <ul style="list-style-type: none"> -- A desktop or laptop computer (smartphones not suited for online discussion and writing) -- Access to a quiet, private space with a reliable WIFI connection -- A working camera, microphone, and set of speakers (standard on most computers) -- A browser capable of opening PDF documents -- Capacity for viewing video lectures with file sizes of 500 MB or more -- An e-mail account that you check regularly (for communication and submission of final papers) 			
<p>●Course Contents/Plan Course content will be organized into fourteen individual modules, each focusing on a particular topic or theme. Note that between now and the start of the semester, the following topics are subject to slight modification:</p> <ul style="list-style-type: none"> Module 1: Course Overview Module 2: Picture Scrolls Module 3: Medieval/Early Modern Books Module 4: Medieval/Early Modern Books Module 5: Early Manga and Manhwa Module 6: Children's Literature Module 7: Early Animation Module 8: Interwar and Wartime Magazines Module 9: Comicbooks (Lianhuanhua and Manga) during the 1970s and 1980s Module 10: Dojinshi and Fan Fiction Module 11: 1980s-1990s Video Games Module 12: Media Mix and Transmedia Storytelling Module 13: Webtoons and Web Manhwa Module 14: Digital Media and Participatory Culture 			
<p>●Course Evaluation Methods <i>Assessment in this course will be according to a contract system.</i> At the start of the semester, each student will be given a choice of three different learning tracks, each with a different set of tasks and learning objectives that will culminate in a fixed grade. Upon successfully meeting all the objectives in their chosen track, students will earn the grade they signed up for. Students who choose the General Education Track, for example, will earn a B after completing ten of the fourteen lesson modules and writing a brief paper on an assigned topic. Students on the Research Track, in contrast, will earn an A+/S after completing all fourteen lesson modules,</p>			

contributing to online discussion meetings, conducting self-directed research for their final paper, and giving an presentation based on their research topic. Specific details about the assessment schedule for each track can be viewed on the online version of the syllabus, which will be accessible starting on Friday, September 18th (see below for link).

●Notice for Students

Please note that due to the COVID-19 pandemic, the current plan is to offer an online version of this course on CANVAS (not the School of Economics account). *We will not be using NUCT.* If the university deems that it is safe for undergraduate students to attend lectures on campus (Alert Level 2 or lower), I will consider holding discussion meetings in person for students who would like to attend. *However, even in the event that we are able to hold in-class meetings, any student in the class will still be able to participate in this class entirely online if they prefer to do so.* If you are considering enrolling, or if you are still on the fence and would simply like to learn more about the course content, please visit the following signup sheet page on Google Docs so that I can send you an invitation to the course site:

<https://docs.google.com/forms/d/1ifn-wcHbDroG-vvFXkTNdxcjqkYRA8KT1MidS6jNPUO/edit>

If you cannot access Google Docs for whatever reason, you can also e-mail me for an invitation at: mc.gee.dylan.patrick@f.mbox.nagoya-u.ac.jp.

Note that I will be opening the course site on Friday, September 18th. That way, you can view the online version of the syllabus, peruse the schedule of course readings, and even get a head start working on some of the lesson modules before the semester starts.

Textbook	No required textbook for purchase. All course readings will be made available on the first day of class.
Reference Book	A list of optional readings and reference materials will be made available on our course site.

Lecture on Cross-cultural Education

Registration Code	0085481	Credits	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 4 (14:45~16:15)		
Instructor	TANIGUCHI Norihito		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please refer to the School of Education's one.			
http://www.educa.nagoya-u.ac.jp/docs/syllabus/2020_syllabus/H3010.html			

German 2			
Registration Code	0025501	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	NISHIKAWA Tomoyuki		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

French 2			
Registration Code	0025502	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	OKUDA Tomoki		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Russian 2			
Registration Code	0025503	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	YAMAZAKI Tachiana		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Chinese 2			
Registration Code	0025504	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	KASAI Naomi		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Spanish 2			
Registration Code	0025505	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	MENDEZ GUERRA Carlos		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Korean 2			
Registration Code	0025506	Credits	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	KIM Hyunjin		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(C·Au)·Ag(B)		
For information on syllabus, please go to the following address. (In Japanese only) http://www.ilas.nagoya-u.ac.jp/syllabus/syllabus2020/syllabus2020_new/syllabus-top.html			

Special Lecture (Studium Generale I)			
Registration Code	0065511	Credits	2.0
Course Category	InterD Liberal		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Fri. / 5 (16:30~18:00)		
Instructor	VASSILEVA Maria		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(C・Au)・Ag(B)		
<p>●Goals and Objectives of the Course The name “Studium Generale” means “General Studies” in Latin and was developed in old European universities, still used in many German universities. ストゥディウム・ゲネラーレとはヨーロッパで 800 年の伝統を持つ「開かれた大学」です。その理念に基づいた講義を体験することを狙う。様々なトピックで初心者にも分かりやすく噛み砕いた講義を英語で開講します。対象者は皆さんです！</p> <p>使用言語は英語。学内留学の気分!</p> <p>Goals: Studium Generale focuses on “diversity”. Students are exposed to different ideas – from both the speakers and other participants. The course cultivates a multifaceted view of the world and communication skills, which are fundamental competencies for future members of the society.</p> <p>Objectives: Students will increase their understanding and appreciation of wide range of scientific fields, as well as business, careers and arts topics. Students will gain experience discussing with participants from other majors and countries. Student develop these competencies while using English language.</p> <p>●Course Prerequisites No prior scientific knowledge in any field is required. Everyone is welcome!</p> <p>●Course Contents/Plan The format of the course includes talks by invited speakers and guided discussions among participants. A different invited speaker, from Nagoya University or elsewhere, gives each talk thus the content of each session is different. <i>Videos of some previous talks may be seen on Nagoya University OCW page:</i> http://ocw.nagoya-u.jp/index.php?lang=en&mode=c&id=624&page_type=index <i>Some lectures have been translated into Japanese and added to the NUAcL webpage:</i> http://nuact.ilas.nagoya-u.ac.jp/ocw/index.html</p> <p>THIS COURSE WILL BE CONDUCTED ONLINE. Lectures will be provided as recorded videos. Discussion sessions will be live online. Exact schedule will be provided on the course NUCT site.</p> <p>●Course Evaluation Methods Written report for each lecture (70%); participation in discussion sessions (30%) Each report should answer the provided questions and be several sentences long (report word count min 350 – max 2000). Grading criteria for reports: (1) understanding lecture content, (2) logical thinking and analysis of lecture content, (3) organization of text, and (4) English language usage.</p> <p>Withdrawal (W) grade: Students who do not intent to complete the course need to submit a Course Withdrawal Form. This can be done at any time during the course. Students who register but never come to class will receive an W grade. この講義を最後まで履修しない場合には、履修取り下げ届を提出すること。この手続きは、授業期間中いつでも可能</p> <p>●Notice for Students 1. Instructions for extracurricular learning: assignments (reports) completion will require lecture review and may involve independent small online research.</p>			

2. Note that this course is also an open course! Participants who are not undergraduate university students register through a separate course website. ILAS students do not need to register there. Participants registering for the Open Course (through the course website) follow separate requirements to receive a Certificate of Completion. These requirements DO NOT apply to ILAS students.

Textbook	none
Reference Book	none
Reference website	http://www.bio.nagoya-u.ac.jp/G30StudiumGenerale/
Message	