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)		

●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.

●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.

●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.

●Evaluation methods
Attendance 30%, Class Participation 30%, Mid-term Examination and Final examination 40%

●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.

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)		

●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.

●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.

●Course Contents

Linear systems, Gaussian elimination, matrices, vectors, linear maps, matrix multiplication, the inverse of a linear map, subspaces of 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.

●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.

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”.

●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.

It is *strongly* recommended to also follow the course Mathematics Tutorial I b.

Textbook	None
Reference Book	Otto Bretscher: ***Linear Algebra with Applications***, 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)		

●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.

●Course Prerequisites: None

●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)

●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).

-Course Withdrawal

Yes. The last day to withdraw without academic penalty is the last class day in November.

-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.

●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.

Attendance is necessary for successful completion of this course. No points will be awarded for attending lectures, but attendance may be taken.

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.**

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)		

●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.

●Course Prerequisites

None

●Course Contents/Plan

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

●Course Evaluation Methods

Online quizzes: 60%
Written essay: 30%
Oral presentation: 10%

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).

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%).

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.

●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.

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)		

●Goals and Objectives of the Course

Goals – 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.

Objectives

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.

●Course Prerequisites

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.

●Course Contents/Plan

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

●Course Evaluation Methods

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.

●Notice for Students

Information regarding the paper assignment will be distributed after the midterm evaluation.

Textbook	Jillson, Cal. 2018. *American Government: Political Development and Institutional Change*, 9th 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)		

●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.

●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.

●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.

●Evaluation methods
Attendance 30%, Class Participation 30%, Mid-term Examination and Final examination 40%

●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.

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)		

●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.

●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.

●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.

●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%.

●Notice for Students
Concurrent registration of Fundamental Physics Tutorial Ia is strongly advised because it is necessary for mastering the content of the lectures.

Related courses: Calculus I & II, Linear Algebra I & II, Fundamentals of Physics II & III.

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)		

●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.

●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.

●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

●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%

●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.

Related courses: Calculus I, Calculus II, Linear Algebra I, Linear Algebra II, Fundamentals of Physics I, III.

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)		

●Goals and Objectives of the Course
To develop academic writing, presentation and research skills.

●Course Prerequisites
None.

●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.

●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.

●Notice for Students
None.

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)		

●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.

●Course Prerequisites

Some basic knowledge on calculus from high school is assumed, including differentiation and integration of polynomial functions.

●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.

●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.

●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.

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 (1st year, Fall Semester) / Tue. / 4 (14:45～16:15)		
Instructor	BACHMANN Henrik		
Target Schools (Programs)	La(S)･Ec(S)		

●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.

●Course Prerequisites

High-school level mathematics.

●Course Contents

Linear systems, Gaussian elimination, matrices, vectors, linear maps, matrix multiplication, the inverse of a linear map, subspaces of 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.

●Evaluation methods

The assessment of this course coincides with the assessment of the course Linear Algebra I.

Course withdrawal: 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.

●Notice for students

The reference book is available in the Main library and in the Science library (enough copies in total for all students).

It is *strongly* recommended to register also to Linear algebra I.

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.

Textbook	None
Reference Book	Otto Bretscher: ***Linear Algebra with Applications***, 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)		

●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.

●Course Prerequisites

There are no prerequisites for taking this course.

Students are expected, however, to have basic knowledge in academic composition

●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)

●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%

●Notice for Students

Please be sure to check the NUCT class page for further updates

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)		

●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.

●Course Prerequisites
None

●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.

●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").

●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.

****
It is possible that I may provide you online lectures and opportunities for online presentation, if there are restrictions because of corona virus.

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)		

●Goals and Objectives of the Course

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.
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.

●Course Prerequisites

None

●Course Contents/Plan

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

●Course Evaluation Methods

The grading is based on class participation (30%) and oral presentations (70%).

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).

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%).

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.

●**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 (1st 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)		

●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.

●Course Prerequisites

None

●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.

●Course Evaluation Methods

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.

●Notice for Students

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)		

●Goals and Objectives of the Course

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.

●Course Prerequisites

A good command of high school mathematics.

●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.

●Course Evaluation Methods

Homework assignments and oral presentations. The precise form will be determined

Course withdrawal: Participating students may withdraw from the course by submitting a course withdrawal form to the teacher.

●Notice for Students

Textbook	None
Reference Book	Steven Galovich: *Introduction to mathematical structures*, Harcourt Brace Jovanovich Publishers, San Diego, 1989. ISBN-13: 978-0155434684. Edmund Landau: *Foundations of analysis*, 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)		

●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.

●Course Prerequisites

A background in basic Biology from high school is not absolutely required but is ideal.

●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

CONCEPTS OF EVOLUTION
- How Populations Evolve
- The Origin of Species
- Tracing Evolutionary History

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

PLANTS: FORM AND FUNCTION
- Plant Structure, Growth, and Reproduction
- Plant Nutrition and Transport
- Control Systems in Plants

●Course Evaluation Methods

Attendance and class participation 30%
Home works 20%
Examinations 50%

●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 notify 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 Form by November 18, 2020.

7. Reading assignments
Students are expected to read one to two chapters of the textbook every week, and come to class prepared for discussion.

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)		

●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.

●Course Prerequisites

No prerequisites.

●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.

●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.

●Notice for Students

This course in an optional subject which does not count towards the number of credits required for graduation in any program at Nagoya University.

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 (1st 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 developt 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 (Knoweldge)
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	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. For any questions please contact the course instructor, Keiko Kusumoto at : [redacted]

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)		

●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.

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.

●Course Prerequisites

No prerequisites, but the students are expected to proactively join the activities.

●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.

●Evaluation Methods

Report assignments: 60%
Final presentation: 40%

●Notice for Students

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)		

●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.

●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.

●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.

Please visit the course homepage for an updated version of the contents for this course.

●Course Evaluation Methods
The final grade will be based on active participation during the lectures and on some written and programming tasks.

●Notice for Students
Check the course homepage: https://www.henrikbachmann.com/mml_2020.html

This course in an optional subject which does not count towards the number of credits required for graduation in any program at Nagoya University.

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)		

●Goals and Objectives of the Course

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

●Course Prerequisites

None

●Course Contents/Plan

I. Introduction: The nature of Biotechnology
1. Basic Science of Biotechnology
2. Technologies and Tools in Biotechnology I
3. Technologies and Tools in Biotechnology II

II. Products of Biotechnology:
1. Microbial Biotechnology
2. Plant and Animal Biotechnology
3. Aquatic Biotechnology and Bioremediation
4. DNA Fingerprinting and Forensic Analysis
5. Medical Biotechnology

III. Biotechnology Regulations

IV. Ethics and Biotechnology

●Course Evaluation Methods

Attendance and class participation 30%
Group presentation 20%

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)		

●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.

●Course Prerequisites

Some basic knowledge on calculus from high school is assumed, including differentiation and integration of polynomial functions.

●Course Contents/Plan

1. Limits and continuity: Basic properties of limits of sequences and functions, continuous functions and their basic properties, maxima and minima, asymptotic properties of functions.
2. Differentiation: Basic properties of the derivative and its interpretation, mean value theorem, higher derivatives, Taylor series.
3. Integration: Riemann integral and its properties, improper integrals, the fundamental theorem of calculus.

●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.

●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.

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)		

●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.

●Course Prerequisites

None

●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

●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.

●Notice for Students

None

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)		

●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.

●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:

-- 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)

●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:

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 Manhua
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 Manhua
Module 14: Digital Media and Participatory Culture

●Course Evaluation Methods

Assessment in this course will be according to a contract system. 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,

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-vvFXkTNdxcjqkYRA8KT1MidS6jNPUQ/edit

If you cannot access Google Docs for whatever reason, you can also e-mail me for an invitation at: [redacted]

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)		

●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！

使用言語は英語。学内留学の気分!

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.
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.

●Course Prerequisites

No prior scientific knowledge in any field is required. Everyone is welcome!

●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.
Videos of some previous talks may be seen on Nagoya University OCW page:
http://ocw.nagoya-u.jp/index.php?lang=en&mode=c&id=624&page_type=index
Some lectures have been translated into Japanese and added to the NUAcL webpage:
http://nuact.ilas.nagoya-u.ac.jp/ocw/index.html
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.

●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.
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

●Notice for Students

1. Instructions for extracurricular learning: assignments (reports) completion will require lecture review and may involve independent small online research.

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	

Intermediate Korean 2			
Registration Code	0081201	**Credits**	2.0
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Mon. / 2 (10:30～12:00)		
Instructor	UTSUGI Akira		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・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			

Intermediate Chinese 2			
Registration Code	0081301	**Credits**	2.0
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Mon. / 3 (13:00～14:30)		
Instructor	MAEDA Mitsuko		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・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			

Health and Sports Science : Practicum (Exercise and Sports II)

Registration Code	0021416	**Credits**	1.0
Course Category	Basic GE, Sports		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Mon. / 4 (14:45～16:15)		
Instructor	KATAYAMA Keisho		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

This course promotes communication and leadership abilities through sports by teaching students how to manage their own health, while training them in the basic skills required for a lifetime of physical activity.

The objectivities of this class are to emphasize the development of fundamental BADMINTON skills, knowledge of game rules, and tactics of play. The students play mixed doubles. The students are expected to deepen their understanding of this game and also to communicate well with a partner in class.

●Course Prerequisites

The students' success in this class is extremely dependent on their ACTIVE participation and ON TIME attendance. The students are expected come to class ON TIME and READY to participate. The students missing more than FOUR classes for any reason (excused or unexcused) will fail the course. Any students who are disruptive, disrespectful, or not putting their effort into the class will also fail the course or have their attendance/participation grade reduced.

●Dress Code and Equipment: Comfortable SPORTSWEAR and INDOOR SPORTS SHOES must be worn. If the appropriate attire is not worn to this class, attendance will not be counted. The students who do not have enough clear eyesight, the use of contact lens is strongly recommended.

●Course Contents/Plan

1. An orientation session for incoming freshmen.
2. An orientation session for badminton class.
3. Fundamental skill training.
4. Adapted skill training.
5. Team offensive and defensives tactics.

●Course Evaluation Methods

Evaluated by the ATTENDANCE and active participation (70%), badminton skills and knowledge (20%), and communication skills (10%). The students missing more than FOUR classes for any reason (excused or unexcused) will fail the course. Any students who are disruptive, disrespectful, absent from class many times, or not participating fully in the class will also fail the course or have their attendance/participation grade reduced.

The course withdrawal system is available in this class. If students want to withdraw, they need to submit a Course Withdrawal Request Form to the instructor before the end of the 4th class (including the first orientation class). In principle, instructors may not give students a grade of “Withdrawal” without the submission of the Course Withdrawal Request Form. However, in the case of an avoidable reason, such as sickness, or no school attendance, the instructor may give a grade of “Withdrawal” based on their judgment.

●Notice for Students: The students MUST attend the first orientation class and BRING their photo (3x4 cm) for incoming freshmen. The details of this course will be explained in the first session. It is desirable that students should preparation to learn about basic rules and skills required in playing of badminton.

Textbook	The website about table tennis will be introduced in class if necessary.
Reference Book	If necessary, the book will be introduced in class.
Reference website	https://bwfbadminton.com/
Message	Hope the students will be active participation in this class.

Academic Japanese (Reading & Writing) V

Registration Code	0061431	**Credits**	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Mon. / 4 (14:45～16:15)		
Instructor	TOKUHIRO Yasuyo		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

Academic Japanese (Reading & Writing) V [Kanji 2200]

●Objectives of the course

This course aims to help students build an advanced knowledge of kanji so they can understand and use 2,200 kanji and kanji vocabulary.
Participants learn about 2,200 kanji and kanji words listed by frequency. To increase vocabulary, every class students take a reading test and, optionally, a writing test (240-640 words with 80 kanji). It is followed by the instructor lecturing on topics related to kanji, including the rules of Japanese kanji pronunciation, the rules of kanji transitive/intransitive verbs and passive/causative forms.

●Course Prerequisites

Participants should already know about 800 kanji.

●Course Evaluation Methods

Attendance: 30%, Participation: 20%, Kanji tests: 50%

●Notice for Students

Students who withdraw from this course must fill out the designated form (Course Withdrawal Request) and submit the form to the instructor in charge.

●Course Contents

http://ocw.nagoya-u.jp/index.php?lang=ja&mode=c&id=441&page_type=syllabus

●Notice for Students

Students who withdraw from this course must fill out the designated form (Course Withdrawal Request) and submit the form to the instructor in charge.

Textbook	『日本語学習のための よく使う順 漢字２２００』 三省堂 2,500 円+税 ISBN978-4-385-14074-2
Reference Book	None
Reference website	https://ocw.nagoya-u.jp/index.php?lang=ja&mode=c&id=441&page_type=index https://ocw.nagoya-u.jp/index.php?lang=ja&mode=c&id=441&page_type=materials
Message	

Complex Analysis

Registration Code	0061531	**Credits**	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Mon. / 5 (16:30～18:00)		
Instructor	DARPOE Erik Olof		
Target Schools (Programs)	Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course
To introduce the basic theory of analytic functions in a single complex variable.

●Course Prerequisites
A good command of calculus in one and several variables, as well as basic linear algebra, is indispensible to understand the content of this course. Prior knowledge of complex numbers will be helpful, but is not necessary.

●Course Contents/Plan
Complex numbers: *The complex number system, properties of the complex numbers, Cartesian and polar form.*
The aim of this part is to get familiar with the complex number system.
Analytic functions: *Elementary functions, continuity, analytic functions, the Cauchy–Riemann equations, derivatives of analytic functions.*
The aim of this part is to get familiar with the concept of differentiability for complex functions. We will emphasize the link with functions from the real plane to itself.
Integrals: *Line integrals, Cauchy's theorem, Cauchy's integral formula.*
Complex line integrals have the noticeable property to be (under certain conditions) independent of the choice of the line between the end points. We will focus on the study of this behaviour.
Residues: *Power series and Laurent series, calculus of residues.*
Residue calculus is a powerful tool to evaluate in integrals along curves in the complex plane. We will study the underlying theory as well as applications.

●Course Evaluation Methods
Homework assignments and written examination.

Course withdrawal: Any student who does not participate in the final exam will receive the grade "Absent". It is not necessary to submit a course withdrawal request form.

●Notice for Students

Textbook	None
Reference Book	1. Marsden, Jerrold E.; Hoffman, Michael J.: Basic complex analysis. Third edition. *W. H. Freeman and Company, New York,* 1999. 2. Freitag, Busam: Complex analysis. Second edition. Universitext. *Springer-Verlag, Berlin,* 2009.
Reference website	
Message	

Intermediate French 2

Registration Code	0081501	**Credits**	2.0
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Mon. / 5 (16:30～18:00)		
Instructor	GARRABET Christophe		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・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

Science of Materials

Registration Code	0062231	**Credits**	2.0
Course Category	Sciences Liberal		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Tue. / 2 (10:30～12:00)		
Instructor	GELLOZ Bernard Jacques		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

To learn about the fundamental and technological aspects of various materials, including metals, semiconductors, polymers, composites, dielectrics, and magnets. The course begins with an introduction of the atomic and crystal structures of materials. The tools used to describe crystal structures will be presented. These topics constitute the first fundamental step towards the understanding of materials properties. The relationships that exist between the structural elements of materials (microscopic properties) and their properties and performance (macroscopic properties) will be emphasized throughout the lectures. The materials mechanical, electrical, thermal and magnetic properties will be discussed both fundamentally and technologically.

●Course Prerequisites

None

●Course Contents/Plan

Atomic Structure and Interatomic Bonding
Crystal Structures
Mechanical Properties
Electrical Properties
Thermal Properties
Magnetic Properties
Optical Properties

●Course Evaluation Methods

A student will be regarded as ABSENT if he is absent without valid reason from any scheduled tests. A student who wishes to be considered as ABSENT must contact the instructor until the end of the final examination. Several small tests will be implemented during the semester. Final presentations or reports (depending on University policy related to Covid-19 pandemic) will be evaluated at the end of the semester.
Tests: 75%; Presentations: 25%

●Notice for Students

Related courses: Fundamentals of Physics I, II, III & IV, Fundamentals of Chemistry I
Key Words: Material, metal, crystal, structure, mechanical, thermal, electrical, optical, magnetic.

Textbook	William D. Callister, David G. Rethwisch: Fundamentals of Materials Science and Engineering: An Integrated Approach 4th Ed. (John Wiley & Sons, 2012). Price: $86.95
Reference Book	William D. Callister, David G. Rethwisch: Materials Science and Engineering: An Introduction (John Wiley & Sons)
Reference website	
Message	

Academic Writing

Registration Code	0062331	**Credits**	2.0
Course Category	Arts Liberal		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Tue. / 3 (13:00～14:30)		
Instructor	MCGINTY Sean Michael		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)		

●Goals and Objectives of the Course

Goals

The goal of this class is to introduce students to the craft of academic writing. Students will be able to apply the skills they learn in this class to writing essays in other courses in the fields of social sciences, arts and humanities in particular.

Objectives

The primary objective of the course is to equip students with the necessary writing skills to complete their undergraduate education and prepare for more advanced levels of writing. Students will learn about choosing appropriate research topics, developing their argument, using sources, structuring sentences, paragraphs, and essays, engaging in proper notation, and capturing reader interest.

●Course Prerequisites: None

●Course Contents/Plan

The course is structured as a mix of lectures, assignments and group activities which focus on the following specific topics:

1. What is academic writing?
2. Understanding an Assignment.
3. Academic Integrity.
4. Writing an Essay Map.
5. Peer Review Activity.
6. Choosing Sources and Methodology.
7. Writing Introductions.
8. Academic Language.
9. Writing Paragraphs.
10. Writing Conclusions.

●Course Evaluation Methods

The ultimate aim of the course is to have each student write a 10 page academic essay which will constitute 50% of the final grade. Throughout the course students will also complete a series of mini assignments related to that essay which will be worth the remaining 50% of the grade.

50% Ongoing Assignments
50% Final Paper

A student needs to submit a “Course Withdrawal Request Form” when he or she has no intention of finishing a course during the semester.

●Notice for Students

Due to Covid 19 related restrictions this year, this course will be conducted online which will necessitate some changes from the normal course. Lectures will be recorded and uploaded to the NUCT system, so please check that regularly (at least once per week). Assignments will also be distributed, and students must submit them, via the NUCT system. Additional live tutorial sessions will be conducted using ZOOM so that students can have some face to face interaction with the professor and go over the material covered in the recorded lectures. These will be scheduled after the course has started.	
Textbook	Writing Spaces Volume 1 and 2. Available for free download at: http://writingspaces.org/essays
Reference Book	None
Reference website	The following websites have some useful academic writing resources which are worth referring to: The University of Adelaide Writing Centre: https://www.adelaide.edu.au/writingcentre/resources The Harvard College Writing Center: https://writingcenter.fas.harvard.edu/pages/resources
Message	

Academic English Advanced 3

Registration Code	0062431	**Credits**	2.0
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Tue. / 4 (14:45～16:15)		
Instructor	MORITA Liang		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)		

●Goals and Objectives of the Course
To develop academic writing, presentation and research skills.

●Course Prerequisites
None.

●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.

●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.

●Notice for Students
None.

Textbook	None.
Reference Book	None.
Reference website	None.
Message	None.

Immigration in Japan: A Socio-legal Perspective

Registration Code	0082481	**Credits**	2.0
Course Category	Open		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Tue. / 4 (14:45～16:15)		
Instructor	ISHIKAWA Claudia		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course
Objective:
This course aims to analyse the legal and social status of foreign nationals in Japan. Whilst it focuses, in particular, on the immigration law framework and policy developments in Japan, a comparison with the situation in students' home countries is also envisioned.
Goal:
Students will not only acquire a deeper understanding of international society; they are also expected to enhance their communication skills through discussion and presentations.

●Course Prerequisites
Students must be at least in the second year of their undergraduate studies, and possess the requisite English language ability to comprehend the course readings, participate in discussions, and give a presentation. Non-native English speakers should possess TOEFL iBT 70、IELTS 5.5, or TOEIC 730 at the minimum.

●Course Contents/Plan
This course aims to analyse the legal and social status of foreign nationals in Japan. It focuses on the immigration law framework, immigration policy, rights and protections afforded under domestic laws, and prospective developments pertaining to admission and residence. Time will also be devoted to discussing anti-terrorism and security measures, international marriage and families, as well as Japanese perceptions of foreigners.

Topics to be covered include:
1.Citizenship in Japan
2.Japan's Immigration Framework I: A Short History
3.Japan's Immigration Framework II: Relevant Laws and Ordinances
4.Assessment of Current Immigration Policy Developments
5.Foreign Crime, Terrorism, and Security Measures
6.Japan's Refugee Policy
7.Composition of Foreign Nationals in Japan
8.Foreign Workers
9.Foreign Nationals' Civil and Political Rights under Domestic Law
10.Foreign Nationals' Social and Economic Rights under Domestic Law
11.International Marriage and Families
12.Japanese Perception of Foreigners

Readings will be distributed by the class instructor.

●Course Evaluation Method
Attendance/Participation: 20%
Group Presentation: 30%
(Students will be asked to give presentations (approximately 20 minutes) in groups on a subject relevant to the topic covered in the week in which the presentation is scheduled.)
Essay (1,500-2,000 words, if written in English; 3,000-4,000 characters, if written in Japanese): 50%.
Course withdrawal is permitted, provided that a course withdrawal application form is submitted.

●Notice for Students
Provided that the situation revolving around COVID-19 continues to be stable, at least the first class of this course is expected to be held in a classroom setting. Students are asked to assemble in Room 207 of the International

Education and Exchange Centre at 14:45 on October 6. Any questions rearding the course should be addressed to Claudia Ishikawa at [redacted].	
Textbook	Not Applicable
Reference Book	Readings will be uploaded onto the relevant platform.
Reference website	
Message	Whilst this course has been designed for international students, Japanese students are very welcome! Moreover, as the course is interdisciplinary in nature, students from all Schools and Departments are encouraged to attend.

Academic Japanese (Listening & Presentation) I

Registration Code	0062631	**Credits**	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Tue. / 6 (18:15～19:45)		
Instructor	HAJIKANO Are		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

In this course, students will acquire listening comprehension skills for longer audio segments and learn how to make simple academic presentations. Students will develop a basic understanding of presentations while learning pertinent vocabulary and expressions. Class materials are designed for lower-level intermediary students.

●Course Prerequisites

Students are required to have finished Basic Japanese Courses.

●Course Contents/Plan

・Prepare and perform four or five short speeches
-talking about yourself
-expressing your opinion
-introducing your favorite place
Other topics will be informed in the class.
・Listening comprehension practice

●Course Evaluation Methods

Attendance & Class Participation: 50%, Assignment（Speech drafts & Listening worksheets): 25%,
Final Examination (Speech & Listening): 25%

●Notice for Students

Students must maintain course attendance rates of 80% or higher and are required to submit all assignments, make all speeches and take final examinations. Those who fail to meet these requirements will not earn credits. Students need to submit a Course Withdrawal Request Form when students have no intention of finishing a course during semester.

Textbook	Will be introduced in the class.
Reference Book	『留学生のためのアカデミック・ジャパニーズ聴解［中級］』スリーエーネットワーク
Reference website	
Message	

Academic Japanese (Listening & Presentation) III

Registration Code	0062632	**Credits**	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Tue. / 6 (18:15～19:45)		
Instructor	KATO Jun		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

In this course, students will acquire the skills to make academic presentations related to their research focus and formulate appropriate questions and answers regarding specific presentations. Class materials are designed for advanced students.

●Course Prerequisites

-Students are expected to participate actively in class activities throughout the course.

●Course Contents/Plan

The specific goals in "Academic Japanese (Listening & Presentation) III" are to help the students (i) give presentation with an appropriate expression and style of the academic situation, and (ii) ask a question appropriately in specific presentation and answer definitely. The semester will cover the former half of the textbook as following:

Lesson 1: Listening practices
Lesson 2: Listening practices -part 1-1.
Lesson 3: Listening practices -part 1-2.
Lesson 4: Listening practices -part 2-1.
Lesson 5: Listening practices -part 2-2.
Lesson 6: Listening practices / making an outline of the presentation -part 1.
Lesson 7: Listening practices / making an outline of the presentation -part 2.
Lesson 8: Review.
Lesson 9: Listening practices / making an outline of the presentation -part 3.
Lesson 10: Listening practices / making an outline of the presentation -part 4.
Lesson 11: Listening practices / making an outline of the presentation -part 5.
Lesson 12: Student presentation -part 1.
Lesson 13: Student presentation -part 2.
Lesson 14: Review and discussion.
Lesson 15: Review, reflection, and course evaluation.

●Course Evaluation Methods

Students who need the course credits are required to meet the following conditions:
Oral exam 20%, Listening exam 20%, Presentation and self-assessments 30%, Assignments 30% : TOTAL 100%
*Students will be graded following the 5-step S-A-B-C-F grade evaluation system.
*Students can withdraw from this course if they submit a request by the end of November.
*If a student is absent from classes more than 4 times, his or her grade will be "Absent."

●Notice for Students

- Students are required to prepare for the textbook by the second lesson.
- The first lesson of the course will commence on October 6, 2020.

Textbook	『アカデミック・スキルを身につける 聴解・発表ワークブック』スリーエーネットワーク, "Academic Skill wo minitukeru Choukai / Happou Workbook" 3A Network, 2007.(ISBN: 978-4883194261)
Reference Book	To be informed in class.
Reference website	

Message	*Students should download materials through NUCT and check some assignments on it before the class starts. *The progress and contents of the lesson may change depending on the situation.

Laboratory in Physics

Registration Code	0063331	**Credits**	1.5
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) /Wed./ 3 (13:00～14:30) & 4 (14:45～16:15)		
Instructor	NAKATSUKA Osamu, KIMURA Yasuhiro, GELLOZ Bernard Jacques, ISHIBASHI Kazunori, MORIHANA Kumiko		
Target Schools (Programs)	Sc(P・C・B)・En(P・C・Au)・Ag(B)		

● Goals and Objectives of the Course

The goal of this course is to improve your understanding of the theory behind physical values and phenomena on the basis of measurements and observations, and to help you learn experimental techniques such as basics, methods, and principles of measurement by using various types of equipment.

Through using measuring devices such as a micrometer, a voltmeter, or an oscilloscope in laboratory practices, students are to learn how to measure various physical quantities with uncertainties. Concurrently, practice assignments related to the experiments are given to facilitate understanding of data analysis and writing of reports. Those are the objectives of this course.

There is a historical, intellectual, social, and technical background behind each subject covered in the experiments. The experimental equipment and methodologies covered in this course can be applied in the majority of fields related to natural science. Hence, students interested in physics as well as those majoring in other fields will discover the applicability of the lessons learned in their major through laboratory experiments performed in this class. Students are expected to learn from not only classroom lectures but also hands-on physics laboratory experiments, which constitute a fundamental academic skill required for future studies in their specific fields.

●Course Prerequisites

It is preferable to take courses of Fundamentals of Physics, but is not required.

●Course Contents/Plan

The course is comprised of two key parts:

1. Lectures and exercises on the basics of measurements and analysis
2. Experiments[*1]
   + Acceleration due to gravity +Motion of electrons in magnetic field
   + radiation and radioisotopes +Wavelength of light measurement with diffracting grating
   + Oscilloscope +Resonance of electrical circuit + Low temperature properties of materials

[*1] Laboratory practices may be changed based on university alert category level.

【Contingency Plans Under COVID-19 Pandemic】

Based on Nagoya University Alert Categories, the format of lessons in the course may be altered.

Under Category C (emergency) or Education Activities Level 4 or higher:

No in-person lectures, exercises or laboratory practices given. Online lectures and video-on-demand lessons shall be given to facilitate hands-on experience of laboratory exercises. The course hours shall be reserved to take questions from students in real time.

Under Category B (High Alert) or Education Activities Levels 2 or 3:

No in-person lectures and exercises may be given (online option only). Laboratory practices, however, may be given in person to those who prefer over online lessons; for the other, video-on-demand (online) lessons shall be given. Those who take the online lessons may ask questions during the course hours in real time.

Under Category A (Caution) or Education Activities Level 1 or lower:

In-person lectures, exercises, and laboratory practices may be given. For those who cannot participate in person, video-on-demand lessons shall be given (limited to those who cannot re-enter into Japan due to the restriction in immigration).

After each laboratory practices, students are to receive general feedback on the proper use of an equipment or handling of data. This substitutes the hands-on part of the course's objectives.

●Course Evaluation Methods

Evaluation will be based on participation and reports. Students will have to submit a report at the end of each session unless otherwise instructed. Class attendance is a very important factor affecting the approval of the credit of this course because the physical laboratory experiment class lays emphasis on class attendance and laboratory work performance. Students who are absent more than two times or who submit a Course withdrawal Request shall receive an "Absence" grade[*2].

[*2] Letter grade "W" (withdrawal) may be given to those who entered the university in April 2020 or thereafter.

●Notice for Students

Students taking this course MUST attend the first class of this course to receive guidance and safety training in real time.

As noted earlier, participation in class is essential for learning laboratory practices. Practice makes it easy for attaining our goals and objectives. Hence, as extracurricular activities, students are to watch online videos (see Reference Website) to better prepare for laboratory practices in advance. While reports are generally prepared and handed in each class, some practices may require students to prepare and to submit a supplemental report. On average, students are to spend two to three hours outside the class to prepare for exercises and laboratory practices.

Lastly, students shall be notified of any announcement or course changes via NUCT. Please be advised that students are to check the course page on NUCT regularly.

Textbook	Physics Laboratory Experiment Guidelines by ILAS, Nagoya University (the copy to be given electronically to each student)
Reference Book	See references therein the Textbook
Reference website	https://ocw.nagoya-u.jp/index.php?lang=en&mode=c&id=641 [to be revised as the Fall term progresses]
Message	This course is designed to prepare physics and engineering majors for taking an advanced laboratory course. Any other science-oriented majors are also invited to join the "phun".

Intermediate Spanish 2

Registration Code	0083402	**Credits**	2.0
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Wed. / 4 (14:45～16:15)		
Instructor	MIYASHITA Katsuko		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・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

Business Japanese I

Registration Code	0063631	**Credits**	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Wed. / 6 (18:15～19:45)		
Instructor	KATO Jun		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

In this course, students will learn Japanese expressions considered essential knowledge for business people in Japan. Based on various themes, students will develop the communication styles and expressions required in Japanese business settings. The course also covers fundamental business vocabulary. Class materials are designed for higher-level intermediate students.

●Course Prerequisites

-Students are expected to participate actively in class activities throughout the course.

●Course Contents/Plan

The specific goals in "Business Japanese I" are to help the students (i) understand Japanese business culture, and (ii) use appropriate expressions to build better relationship with people in working situation. The semester will cover the former half of the textbook as following:

Lesson 1: Introductions -part 1.
Lesson 2: Introductions -part 2. / oral practice
Lesson 3: Introductions -part 3. / role play
Lesson 4: Greetings -part 1. / oral practice
Lesson 5: Greetings -part 2. / role play
Lesson 6: Permission -part 1. / oral practice
Lesson 7: Permission -part 2. / role play
Lesson 8: Review and reflection.
Lesson 9: Requests -part 1.
Lesson 10: Requests -part 2.
Lesson 11: Requests -part 3.
Lesson 12: Presentation 1.
Lesson 13: Presentation 2.
Lesson 14: Presentation 3.
Lesson 15: Review, reflection, and course evaluation

●Course Evaluation Methods

Students who need the course credits are required to meet the following conditions:
Oral exam 20%, Quizzes 10%, Presentation 20%, Role-play exam 20%, Assignments 30%: TOTAL 100%
*Students will be graded following the 5-step S-A-B-C-F grade evaluation system.
*Students can withdraw from this course if they submit a request by the end of November.
*If a student is absent from classes more than 4 times, his or her grade will be "Absent."

●Notice for Students

- Students are required to prepare for the textbook by the second lesson.
- The first lesson of the course will commence on October 7, 2020.

Textbook	『新装版　ビジネスのための日本語』スリーエーネットワーク,"Shinsoban, business no tame no nihongo," 3A Corporation, 2006. (ISBN: 978-4883194018)
Reference Book	To be informed in class.
Reference website	To be informed in class.
Message	*Students should download materials through NUCT and check some assignments on it before the class starts. *The progress and contents of the lesson may change depending on the situation.

Thinking about Japanese Society in the 21st Century from Gender Perspectives

Registration Code	0064431	**Credits**	2.0
Course Category	InterD Liberal		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Thu. / 4 (14:45～16:15)		
Instructor	SAEGUSA Mayumi		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

The goals of this course are 1) to introduce students to the basic concepts of gender studies, 2) to deepen students' understanding of a wide variety of gender issues in Japan and global society, 3) to encourage students to think from diversified standpoints and to take action to promote gender equality.

Throughout the course, we will question gender in multiple ways:

- Why is it important to think issues from gender perspectives?
- How do gendered structures of power and privilege operate?
- How do we explain the sexual division of labor and the unequal status of women in society?
- How do we explain toxic masculinity?
- What can we as individuals do to promote gender equality?

Objectives:

- Develop a thorough understanding of gender-related issues
- Analyze causes of gender inequality
- Communicate effectively about gender issues in both writing and speech.

●Course Prerequisites

There are no prerequisites for this course.

●Course Contents/Plan

- What is gender equality?
- Masculinity and femininity
- Gender and politics
- Gender and work
- Love, Marriage, and Gender
- Gender-based violence
- Sexual Orientation and Gender Identity
- Student Presentations

●Course Evaluation Methods

- Participation 30% (submission of comment sheets)
- Mid-term Essay Exam 20%
- Presentation 20%
- Final Essay Exam 30%

*Students need to submit a Course Withdrawal Request Form when requesting course withdrawal.

●Notice for Students

Everyone is welcome!

Textbook	None
Reference Book	Kimmel, Michael S. The Gendered Society., Oxford University Press.
Reference website	
Message	

Academic Japanese (Reading & Writing) I

Registration Code	0064631	**Credits**	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Thu. / 6 (18:15～19:45)		
Instructor	TOKUHIRO Yasuyo		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

In this course, students will acquire fundamental reading and composition skills to read and write simple reports in specialized fields as well as analytical texts such as dissertations. The course aims to develop skills to comprehend and compose texts ranging in length from short to long, while at the same time reviewing beginner-level vocabulary, grammar, and Japanese characters.

●Course Prerequisites

Class materials are designed for lower-level intermediary students.

●Course Contents/Plan

1. Reading comprehension 1, Introduction
2. Writing essay 1, Introduction
3. Reading comprehension 2, Submit Essay 1-1
4. Writing essay 2, Vocabulary quiz 1
5. Reading comprehension 3, Submit Essay 1-2, 2-1
6. Writing essay 3, Vocabulary quiz 2
7. Reading comprehension 4, Submit Essay 2-2, 3-1
8. Writing essay 4, Vocabulary quiz 3
9. Reading comprehension 5, Submit Essay 3-2, 4-1
10. Writing essay 5, Vocabulary quiz 4
11. Reading comprehension 6, Submit Essay 4-2, 5-1
12. Writing essay 6, Vocabulary quiz 5
13. Reading comprehension 7, Submit Essay 5-2
14. Writing essay 7, Vocabulary quiz 6
15. Review and Summary, Exam

●Course Evaluation Methods

Attendance 20%, Participation 20%, Compositions 40%, Exam 20%

●Notice for Students

Students who withdraw from this course must fill out the designated form (Course Withdrawal Request) and submit the form to the instructor in charge.

Textbook	『大学・大学院　留学生の日本語①読解編』アルク "Daigaku-Daigakuin Ryugakusei no Nihongo (1) Dokkaihen," Alc KK 『大学・大学院　留学生の日本語②作文編』アルク "Daigaku-Daigakuin Ryugakusei no Nihongo (2) Sakubunhen," Alc KK
Reference Book	None
Reference website	
Message	

Academic Japanese (Reading & Writing) III

Registration Code	0064632	**Credits**	1.5
Course Category	Basic GE, Language I		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Thu. / 6 (18:15～19:45)		
Instructor	KATO Jun		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

In this course, students will build on the skills learned in Academic Japanese (Textual Comprehension and Textual Expression) 3 and acquire fundamental skills to read academic dissertations and articles, as well as write reports and dissertations related to their research focus. At the end of the semester, students will write a longer report on a topic of interest. Class materials are designed for advanced students.

●Course Prerequisites

-Students are expected to participate actively in class activities throughout the course.

●Course Contents/Plan

The specific goals in "Academic Japanese (Reading & Writing) III" are to help the students (i) write a brief summary of articles, (ii) understand how to write a good paragraph, and (iii) write a logical short essay of around 1,000 characters. The semester will cover the former half of the textbooks as following:

Lesson 1: Reading exercises -part 1-1.
Lesson 2: Reading exercises -part 1-2. / Writing exercises -part 1.
Lesson 3: Reading exercises -part 2. / Writing exercises -part 2.
Lesson 4: Reading exercises -part 3-1. / Writing exercises -part 3.
Lesson 5: Reading exercises -part 3-2. / Writing exercises -part 4.
Lesson 6: Reading exercises -part 4. / Writing exercises -part 5.
Lesson 7: Review.
Lesson 8: Reading exercises -part 5-1. / Writing exercises -part 6.
Lesson 9: Reading exercises -part 5-2. / Writing exercises -part 7.
Lesson 10: Reading exercises -part 6. / Writing exercises -part 8.
Lesson 11: Reading exercises -part 7-1. / Writing exercises -part 9.
Lesson 12: Reading exercises -part 7-2 / Writing exercises -part 10.
Lesson 13: Reading exercises -part 8. / Writing exercises -part 11.
Lesson 14: writing a paragraph
Lesson 15: Review, reflection, and course evaluation.

●Course Evaluation Methods

Students who need the course credits are required to meet the following conditions:
Mid-term quiz 20%, Thesis 30%, Final exam 20%, Assignments 30%: TOTAL 100%
*Students will be graded following the 5-step S-A-B-C-F grade evaluation system.
*Students can withdraw from this course if they submit a request by the end of November.
*If a student is absent from classes more than 4 times, his or her grade will be "Absent."

●Notice for Students

- Students are required to prepare for the textbook by the second lesson.
- The first lesson of the course will commence on October 8, 2020.

Textbook	『改訂版　大学・大学院　留学生の日本語③論文読解編』アルク, "Daigaku-Daigakuin Ryugakusei no Nihongo (3) Ronbundokkaihen (revised edition)", ALCKK. (ISBN: 978-4757426337) 『改訂版　大学・大学院　留学生の日本語④論文作成編』アルク,"Daigaku-Daigakuin Ryugakusei no Nihongo (4) Ronbunsakuseihen (revised

	edition)", ALC KK. (ISBN: 978-4757426344)
Reference Book	To be informed in class.
Reference website	To be informed in class.
Message	*Students should download materials through NUCT and check some assignments on it before the class starts. *The progress and contents of the lesson may change depending on the situation.

Intermediate German 2

Registration Code	0085101	**Credits**	2.0
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Fri. / 1 (8:45～10:15)		
Instructor	OTSUKA Sunao		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・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 (Go in Japanese Culture)

Registration Code	0065431	**Credits**	1.0
Course Category	InterD Liberal		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Fri. / 4 (14:45～16:15)		
Instructor	SHIGENO Yuki		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

The purpose of this lesson is to cultivate a rich humanity and cultivate comprehensive judgment ability regardless of the field of specialization. Students will learn Japanese traditional culture "Go" and deepen their mutual understanding through games.

●Course Prerequisites

No pre-requisites! Students from any background are eligible. The course is not designed for Go players, and suitable for students of wide background.

●Course Contents/Plan

Lesson 1: Introduction.
History of “Go” and its diffusion in Japan.
Go equipment.
The rules of Go, part 1.
“Capture Go” (9×9 board).
Technical terms.
Game-playing manners.

Lesson 2: Life of Go professional.
The rules of Go, part 2.
Ending a game.
Individual games (9×9 board).

Lesson 3: Diffusion of Go around world.
The rules of Go, part 3.
Individual games against the computer.
Individual games (9×9 board).

Lesson 4: Perspectives on Go.
Opening strategy (13×13 board).
Individual games (13×13 board).

Lesson 5: International Go events in Japan.
Middle game strategy.
Individual games (13×13 board).

Lesson 6: Artificial intelligence and Go.
End game strategy.
Individual games (13×13 board).

Lesson 7: Lecture by a special guest speaker.
Review of a game.
Life and death.
Individual games (19×19board).

Lesson 8: Team games (19×19 board).
Individual games (19×19 board).
Summary and questions.

●Course Evaluation Methods

- Submission of a paper discussing either the cultural and historical aspects of Go.
- Lessons attendance rate.
- Number of games played during the lectures.
- Some quizzes will be held during the lectures. Students who miss more than 30% of the quizzes will not pass the course.

●Notice for Students

- To make an account to play Go on the Internet, KGS (The KGS Go server).
- If you wish to cancel the course, you will need the permission of the instructor.

Textbook	Go, A complete Introduction to the Game, by Cho Chikun Kiseido Publishing Company, 1997　ISBN: 978-4-906574-50-6
Reference Book	None
Reference website	KGS (The KGS Go server): http://www.gokgs.com/ Cosumi: http://www.cosumi.net/play.html　GoQuest: http://wars.fm/go9
Message	Go is a game of "peace" where players respect each other and prosper together. It is a special opportunity to experience Japanese culture.

Intermediate Russian 2

Registration Code	0085401	**Credits**	2.0
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Fri. / 4 (14:45～16:15)		
Instructor	YAMAZAKI Tachiana		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・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			

Business Japanese III

Registration Code	0065531	**Credits**	1.5
Course Category	Basic GE, Language II		
Term (Semester) / Day / Period	G-III (2nd year, Fall Semester) / Fri. / 5 (16:30～18:00)		
Instructor	YASUI Akemi		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Goals and Objectives of the Course

The aim of the course is for students to acquire the skills required to survive in the Japanese business industry and to be able to use their knowledge both in business settings and in everyday situations. Students will also practice how to introduce themselves and make presentations, using honorific expressions properly.

●Course Prerequisites

Students are expected to have basic knowledge of honorifics.

●Course Contents/Plan

This semester will cover the former half of the textbook as following:

Lesson 1: Introduction & Lesson1 Self-introduction
Lesson 2: Review on polite forms -part 1.
Lesson 3: Review on polite forms -part 2 & Lesson2 Self-introduction
Lesson 4: Lesson3 Answering the phone -part 1 / oral practice.
Lesson 5: Lesson3 Answering the phone -part 2 / role play.
Lesson 6: Lesson4 Making an appointment -oral practice & role play.
Lesson 7: Lesson5 Attending a meeting -oral practice & role play.
Lesson 8: Mid-term Exam and reflection.
Lesson 9: Preparation for a presentation.
Lesson 10: Lesson6 Receiving a complaint -oral practice & role play.
Lesson 11: Lesson7 Reporting a complaint -oral practice & role play.
Lesson 12: Lesson8 Handling a complaint -oral practice & role play.
Lesson 13: Presentation
Lesson 14: Presentation
Lesson 15: Final Exam

●Course Evaluation Methods

Students who need the course credits are required to meet the following conditions:

Quizzes 15%, Mid-term exam 20%, Presentation 15%, Final exam 20%, Active participation 30%
TOTAL/100%

*Students will be graded following the 5-step S-A-B-C-F grade evaluation system.
*Students can withdraw from this course if they submit a request by the end of November.
*If a student is absent from classes more than 4 times, his or her grade will be “Absent.”

●Notice for Students

- Students are expected to participate actively in class activities throughout the course.
- The first lesson of the course will commence on October 2nd, 2020.

Textbook	『上級レベル　ロールプレイで学ぶビジネス日本語』スリーエーネットワーク (ISBN: 978-4-88319-595-4)
Reference Book	『新・にほんご敬語トレーニング』アスク “Shin Nihongo keigo training," ASK, 2014. (ISBN: 978-4872178562)

Reference website	
Message	All classes will be conducted using Zoom and NU Portal.