Past and Present of Democracy

Registration code	0061511	**Credits**	2.0
Course Category	Arts Liberal	**Classroom**	S11
Term(Semester)/Day/Period	I (First Year, First Semester) / Mon / 5（16:30～18:00）		
Instructor	WESTRA Richard John		
Contact	Office: Asia Legal Exchange Plaza, RM 522 Phone: 052-747-6466 Email: westrarj@law.nagoya-u.ac.jp		
Target Schools (Programs)	Le(J) ・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Aim of the Course

This class offers students a comprehensive introduction to democracy as a concept and form of political organization. The course moves from democracy as it was conceived and practiced in ancient societies through the advent of modern bourgeois or liberal democracy to the travails and setbacks democracy has experienced in the late 20th and 21st centuries.

●Course Prerequisites

None

●Course Content

Preliminary definitions of democracy
Democracy in ancient Greece
Typologies of democracy
Advent of liberal democracy
"Waves" of democracy in the modern world
Lessons on what makes democracy
Lost promises of democracy in the world today

●Course Evaluation Methods

Participation…....30%
Mid-term exam….30%
Final exam……40%
100%

●Notice for Students

Course drop period for grade of "absent" prior to mid-term exam.

Textbook	Jørgen Møller and Svend-Erik Skaaning, *Democracy and Democratization in Comparative Perspective: Conceptions, Conjunctures, Causes, and Consequences* (London: Routledge, 2013)
Reference Book	---

Special Lecture (Studium Generale) (ストゥディウム・ゲネラーレ)

Registration code		0062611	**Credits**	2.0
Course Category		InterD Liberal	**Classroom**	ES 034
Term(Semester)/Day/Period		Tue, Thu / 2 time per week（18:15～19:45）from Oct.25th to Dec. 15th		
Coordinator (担当)		VASSILEVA Maria		
Contact	**Office**	Science E 202		
	Phone	052-789-3530		
	Email	mnvassileva@bio.nagoya-u.ac.jp		
Office Hours		TBA		
Target Schools (Programs)		Le(J) ・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Aim of the course

Studium Generale (from Latin, General Course) is a unique immersion program into an English-based lecture environment. The course offers exposure to various academic topics presented in an accessible way, and in English. ヨーロッパで 800 年の伝統を持つ「開かれた大学」の理念に基づいた講義を体験することを狙う。使用言語は英語。

●Expected Learning Outcomes

Students will become more comfortable with interdisciplinary topics in a multicultural environment from an early stage of their University education. 受講生は学際性が身につき、多文化的環境に慣れることが期待される。

Pre-requisite: No pre-requisites! Students from any background are eligible. The level of lectures is introductory, suitable for students of wide background. 受講条件はなく、内容は基礎レベル。

●Contents

Course schedule: every Tuesday and Thursday from October 25th until December 15th, total of 15 classes.

Each lecture is given by an invited speaker from Nagoya University or elsewhere, thus each lecture is different. Lectures topics are renewed every semester.

The final, 15th class is reserved for a discussion between participants on the course topics.

Some of the topics in Fall 2016 include:

1. Nano-carbons: Leading materials for 21st century (Prof. Shinohara, School of Science, Chemistry)
2. Space missions are hard (Dr. Kazunori Ishibashi, School of Science, Physics)
3. Breaking down barriers - black women and their experiences in Japan (Avril Haye)
3. A creative process – the culture of electronic music (Iain Foxwell, musician)
4. To Eat or Not to Eat. That is the Question (Prof. Young You, Nagoya Research Center for Brain & Neural Circuits)
5. From Advanced to Automated Driving Systems in Cars (Prof. Yousuke Akatsu, Graduate School of Engineering)
6. Enzymes that changed our lives in diagnostics, industry, nutrition and pharmacy (Dr. Jasmina Damnjanovic, Graduate School of Bioagricultural Sciences)
7. Regulation of director pay at Japanese companies (MCGINTY Sean Michael, School of Law)
8. Temporal information in communication signals (Dr. Tsunehiko Kohashi, School of Science, Biology)

Detailed course information available at the course website:
http://www.bio.nagoya-u.ac.jp/G30StudiumGenerale/

●Grading

The grading is based on participation (50% of the grade) and written report (50% of the grade).

The "Absent" grade is reserved for students who submit a withdrawal form by the 6th lecture of the course. After that, a letter grade will be awarded based on marks earned from participation and assessment during the semester.

●Related courses

None

Textbook	None. Handouts before each class will be provided on the course website http://www.bio.nagoya-u.ac.jp/G30StudiumGenerale/
Reference Book	---

Introduction to Career Development Theory

Registration code	0063511	**Credits**	2.0
Course Category	InterD Liberal	**Classroom**	C12
Term(Semester)/Day/Period	Ⅰ(First Year, First Semester) / Wed / 5（16:30～18:00）		
Instructor	NISHIYAMA Kiyohisa, SAKAI Nobuaki, ITO Akiko, LELEITO Emanuel		
Contact	Office: Rm. 107, IEEC Building Phone: 052-789-3179 Email: nishiyama.kiyohisa@e.mbox.nagoya-u.ac.jp		
Target Schools (Programs)	Le(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Aim of the course

This course, which mainly composed by lectures and group works, provides an understanding of the working world of Japan. It also focuses on creating a strategy for effective career development taking advantage of the various backgrounds of the international students.

●Course Prerequisites

No prerequisites, but the students are expected to proactively exchange opinions in group discussions.

●Course Content

The students firstly analyze the challenges faced by currently existing occupations and learn scientific approaches for problem solving (such as the 40 inventive principles defined by the theory of inventive problem solving) in group work activities. Then, they will be asked to make strategies to get over the challenges to raise awareness on the importance of career planning. The students each finally independently researches on the strategy for own future career path referring the experience in the group work activities and introduces the research results at final presentation.

●Course Evaluation Methods

Class attendance and participation: 40%
Report: 30%
Final presentation: 30%

●Notice for Students

1. In order to conduct activities and group work effectively, the class capacity is limited to a maximum of 30 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 a course attendance rate of 80% or higher. In the absence of extenuating circumstances, students failing to meet this attendance requirement will earn a ‘fail’.
3. Students who come to class
   15 minutes late without an acceptable excuse will be counted as absence.
4. 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.

Textbook	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

Biotechnology

Registration code	0064311	**Credits**	2.0
Course Category	Sciences Liberal	**Classroom**	C35
Term(Semester)/Day/Period	I (First year, First semester) / Thu / 3（13:00～14:30）		
Instructor	CARTAGENA Joyce Abad		
Contact	Office: Rm. B508A, Building B, Graduate School of Bioagricultural Sciences Phone: 052-789-5209 / Mobile: 09082038167 (for emergency only) Email: joyce@agr.nagoya-u.ac.jp		
Office hours	Mondays 4:00-6:00pm Tuesdays 4:00-6:00pm Fridays 3:00-6:00 pm *Email or call me for appointments outside office hours.		
Target Schools (Programs)	Le (J)・La (S)・Ec (S)・Sc (P・C・B)・En (P・C・Au)・Ag (B)		

●Aim 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 Content

Lesson	Topic
	I. Introduction: The nature of Biotechnology
1	1. Basic Science of Biotechnology (Suggested Readings: Biotechnology 101 pp.19-55; Intro to Biotech Ch. 1 & 2)
2	2. Technologies and Tools in Biotechnology I (Suggested Readings: Guide to Biotech p.18-22; Intro to Biotech Ch. 3; Biotechnology 101 pp. 119-146)
3	3. Technologies and Tools in Biotechnology II (Suggested Readings: Intro to Biotech Ch. 4)
4	II. Products of Biotechnology: 1. Microbial Biotechnology (Suggested Readings: Intro to Biotech Ch. 5)
5	2. Plant and Animal Biotechnology (Suggested Readings: Intro to Biotech Ch. 6 & 7)
6	3. Aquatic Biotechnology and Bioremediation (Suggested Readings: Intro to Biotech Ch. 9 &10)
7	4. DNA Fingerprinting and Forensic Analysis (Suggested Readings: Intro to Biotech Ch. 8)
8	5. Medical Biotechnology (Suggested Readings: Intro to Biotech Ch. 11)
9	III. Biotechnology Regulations (Suggested Readings: Intro to Biotech Ch. 12)
10	IV. Ethics and Biotechnology(Suggested Readings: Intro to Biotech Ch. 12)

●Course Evaluation Methods

Activity	Percentage of final grade
In-class participation (includes recitation/class discussions)	30
Group presentation	20
In-class work/homework	20
Examination	30

●Notice for Students

1. Course webpage
   NUCT (Nagoya University Collaboration and Course Tools) is an online system that will be used for this course. Home works will be accessible through this page as well as extra learning materials that I will be uploading. Moreover, this webpage will also be used as a venue for us to communicate. https://ct.nagoya-u.ac.jp/portal
2. Attendance
   If you cannot attend class, you should contact me as soon as possible either by email or phone. Attendance will not be graded but missing class would mean missing possible points from recitation and in-class activities.
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 24, 2016.

Textbook	Introduction to Biotechnology 3/e 2013 (Pearson International Edition) ISBN9780321818928 *or older version Authors: W.J. Thieman and M.A. Palladino
Reference Book	---

Science of Materials

Registration code	0062231	**Credits**	2.0
Course Category	Sciences Liberal	**Classroom**	En 3-333
Term(Semester)/Day/Period	Ⅲ(Second Year, First Semester) / Tue / 2（10:30～12:00）		
Instructor	GELLOZ Bernard Jacques		
Contact	Office : Engineering Building3, North wing 431 Phone : 052-789-4202 Email: gelloz@nuap.nagoya-u.ac.jp		
Target Schools (Programs)	Le(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●**Aim 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.

●**Contents**

Atomic Structure and Interatomic Bonding
Crystal Structures
Introduction to Polymers and Imperfections in Solids
Mechanical Properties
Electrical Properties
Thermal Properties
Magnetic Properties
Optical Properties

●**Grading**

Class attendance is required. 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.

Class attendance: 5% - Homework: 20% - Intermediate tests&presentations: 35% - Final Exam: 40%

●**Related courses**: Fundamentals of Physics I, II, III & IV, Fundamentals of Chemistry I

●**Key Words:** Material, metal, crystal, structure, mechanical, thermal, electrical, optical, magnetic.

Text Book	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)

Academic Writing

Registration code	0062331	**Credits**	2.0
Course Category	Arts Liberal	**Class room**	S21
Term(Semester)/Day/Period	Ⅲ(Second Year, First Semester) / Tue / 3（13:00～14:30）		
Instructor	FUJIMOTO Akira, LEGE JR Ranson Paul		
Contact	Office : RM 410 Asian Legal Exchange Plaza (ALEP) Phone : 052-747-6944 E-mail: xrplege@law.nagoya-u.ac.jp		
Target Schools (Programs)	Le(J)・La(S)・Ec(S)		

●Aim of the course

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

●Related Subject

Research Writing

●Dress Code and Equipment

Dress Code follows Nagoya University guidelines. Students will not need any special equipment for class but should have basic skills in using a computer as all assignments must be typed and not hand-written.

●Class Contents

What is academic writing?
What is academic integrity?
What is audience and objectivity?
Understanding clarity in sentence structures.
Developing good paragraphs.
Linking paragraph structure to good essays.
What notation styles are commonly used in academic papers?
How to develop an argument.
Writing good paragraphs.
Writing a research essay.
Capturing Reader Interest.

●Course Evaluation Methods

Writing Exercises…….30%
Mid-term test……30%
Final exam.....40%
TOTAL.....100%

NOTE: Following the standard rules of withdrawal: 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

Students must decide if they want to withdraw without a grade within 1 month or prior to the first assignment.

Text Book	Recommended Text: Mathew A. Taylor and David E. Kluge, Basic Steps to Academic Writing: From Paragraph to Essay, Cengage Learning, Tokyo Japan. ISBN: 978-4-86312-209-3
Reference Book	Discussed in class.

Preparedness for Imminent Natural Disasters

Registration code	0062531	**Credits**	2.0
Course Category	InterD Liberal	**Classroom**	C12
Term(Semester)/Day/Period	Ⅲ(Second Year, First Semester) / Tue / 5（16:30～18:00）		
Instructor	LELEITO Emanuel, WATANABE Rumi		
Contact	Office: Engineering Building 7B, Room 237 Phone: 052-789-3101 Email: leleito@nagoya-u.jp		
Target Schools (Programs)	Le(J)・La(S)・Ec(S)・Sc(P・C・B)・En(P・C・Au)・Ag(B)		

●Aim of the course

This course mixes disaster risk reduction (DRR) content knowledge onwith training on creative thinking techniques to provide students with: (1) A deeper understanding of DRR in Japan, (2) Creative thinking and problem solving skills useful both within and outside the DRR context.

●Course Prerequisites

None.

●Course Content

Japan has become a world leader in DRR due to the constant innovation needed to cope with frequent and potentially catastrophic natural hazards. The course participants will critically examine current innovative DRR solutions and how these solutions have succeeded or failed to protect human life and property during major disasters such as the Tohoku Triple Disaster. Then focusing on the imminent Tokai Earthquake, the participants will work in groups to examine and discuss the current state of disaster preparedness in Nagoya area, and to finally generate creative ideas and proposals for improving DRR at the personal, institutional or governmental level. Throughout the class, basic training on useful creative thinking and problem solving techniques will be provided to support students' creative idea generation.

●Course Evaluation Methods

Attendance: 20%, Active Participation: 20%, Group Project: 30%, Final Presentation: 30% (No written exam).

●Notice for Students

- ✧ Students wishing to withdraw from the course are given an "Absent" grade if they submit the Course Withdrawal Request Form before 30th November. After this date, students will be graded based on the five-step S-A-B-C-F grading system. Withdrawal due to unavoidable reasons such as illness is still possible after above deadline.
- ✧ Course HP:

Textbook	None
Reference Book	None (Recommended reading or viewing is given below) (1) Disaster Management in Japan （日本の災害対策）- Pamphlet http://www.bousai.go.jp/1info/pdf/saigaipamphlet_je.pdf (2) Topic related documentaries to watch will be recommended in class.