

Module Code	
Course Subject Classification	Language and Culture Subjects
Course Title	Academic Writing and Presentation II
Intended Students	
Taught Year	2nd Year
Course Year	2013
Course Term	Spring Semester
Taught Day	Tuesday, 2nd period (10.30-12.00)
Subject Area	
Campus	Ito campus
Credit	1
Course Tutor	Gerald Cipriani
TA	
Pre-requisites	Reasonable knowledge of the English language
Course Overview	This is an intermediate writing and presentation course offering more advanced practice in writing and presentation.
Study Objectives (general)	Students will not only learn logical organization of essays in writing; they will also learn to develop skills in oral presentation through classroom practice. The overall aim of this course is to develop to a high level students' general academic writing and presentation skills in the English language and with particular reference to the fields of culture.
Study Objectives (specific)	By the end of the course students should be able to: A. Research and write a coherent essay (with citations) on a particular relevant topic. B. Make an academic oral presentation using audio-visual aids on the topic of their research. C. Take part actively in constructive and critical dialogues. D. Take effective, precise and rigorous notes from high-level academic lectures.
Study consultation (office hour)	Office: Gerald Cipriani: SCS-FLC Building, Room 230 Email: cipriani@flc.kyushu-u.ac.jp Students are welcome to ask for help and support during the semester. Appointments must be made a week in advance by email.
Course Plan	Indicative Weekly Schedule: Week 1. Introduction Week 2. Writing an expository essay: essay structure and the introductory paragraph Language: choosing active or passive sentences Culture: text/audio/video Week 3. Writing an expository essay: body paragraphs, concluding paragraphs, and outlining Language: using conjunctive adverbs Culture: text/audio/video Week 4. Writing an expository essay: improving your work Language: using acronyms and initialisms Culture: text/audio/video Week 5. Research and citation: the Chicago Style Language: placing adverbs of frequency Culture: text/audio/video Week 6. Writing and argumentative essay: developing arguments Language: using quantifiers Culture: text/audio/video Week 7. Writing and argumentative essay: organizing argumentative essays Improving your work Culture: text/audio/video Week 8. In-class examination: essay writing Week 9. Writing a compare and contrast essay: essay structure Language: using punctuation & negating prefixes Culture: text/audio/video Week 10. Writing a compare and contrast essay: describing similarities and differences Improving your work Culture: text/audio/video Weeks 11. Course overview + oral presentation skills Week 12-14. Student oral presentations Week 15. Final in-class examination
Textbooks	There is no textbook. Study materials will be provided. Relevant excerpts will be taken from the following indicative sources: Peter Chin, Yusa Koizumi, Samuel Reid, Sean Wray, & Yoko Yamazaki. (2012). Academic Writing Skills Levels 2. Cambridge University Press. In Our Time, BBC Radio4, Melvyn Bragg: http://www.bbc.co.uk/programmes/b006qykl The Oxford Book of Japanese Short Stories, ed. Theodore W. Goossen (Oxford: Oxford University Press, 2010)
Exams/Results Evaluation Method	Classes: combination of formal lectures, discussions and exercises (homework, in-class, and oral). Feedbacks: evaluation The method of evaluation is based on: (1) Mid-term in-class exam (500 words, week 8): 20% (2) Oral presentation (+ discussion, weeks 12-14): 20% (3) Term homework essay (2000 words + references, week 15): 30% (4) Final in-class exam (500 words, week 15): 20% (5) Attendance: 10%
Others	
Link(s)	Kyushu University: http://hyoka.ofc.kyushu-u.ac.jp/search/details/K003859/index.html Gerald Cipriani: www.geraldcipriani.net

Module Code	
Course Subject Classification	Subject for Languages and Cultures
Course Title	Argumentation and Debate II
Intended Students	
Taught Year	2nd year
Course Year	2013
Course Term	Fall Semester
Taught Day	Tuesday, 2nd period (10.30-12.00)
Subject Area	
Campus	Ito campus
Credit	
Course Tutor	Narahiko INOUE
TA	
Pre-requisites	"Argumentation and Debate I" or equivalent experiences in competitive debating
Course Overview	This course introduces advanced concepts in argumentation and debate in lectures and practices in competitive debating. Students will learn rules and strategies in formal debating so that they can participate not only in classroom debates but also in domestic and international competitions.
Study Objectives (general)	Students will learn advanced concepts and skills in competitive debating to participate in competitions in class and outside the class.
Study Objectives (specific)	(1) Students will review basic rules of debate. (2) Students will review basic strategies in "policy debate". (3) Students will learn more advanced concepts and strategies in "policy debate". (4) Students will learn about Japan's policies about the chosen resolution. (5) Students will construct different affirmative and negative cases. (6) Students will learn to adjust themselves to the given rules and other participants of a specific debate round in giving speeches and conduct cross-examination.
Study consultation (office hour)	Office: SCS-FLC Building 307 Office Hours: To be arranged. Email: inouen@flc.kyushu-u.ac.jp Phone: 802-5747
Course Plan	Students will be split into teams to compete each other. In the first half of the semester, the class works as a squad to prepare for the resolution that "The Japanese government should remove the tariff on rice imports." (2013 Fall college and high school topic in Japan) to participate in the debate exchange at Kyushu Sangyo University (December 7th). In the second half, the teams will continue to debate the same resolution with more case and strategic options. Given below is a tentative plan of each meeting. If schedule allows, teams may participate in other off-campus competitions. 10/8. Introduction. Review of basic concepts and rules. Brainstorming reasons. Research. HW: Make an initial list of references. 10/15. Initial References due. Finding Issues. Write issues specific to the proposition. Use the stock issues to guide your analysis. Start preparing briefs. 10/22. Building affirmative and negative cases. 10/29. Briefs due (2 AFF. and 2 NEG.). Writing affirmative and negative constructive speeches. 11/5. Cross-examination and refutation. One student reads his/her speech and others will cross-examine him/her. 11/12. Revising speeches and writing more briefs. 11/19. Practice Round 1 11/26. Practice Round 2 12/3. Preparation for the Exchange Debate 12/7. Saturday. Kyushu Sangyo University Exchange Debate (2-3 rounds) -- participation required. 12/10. Introduction to advanced strategies. 12/17. Practice Round 3 12/24. No class. 1/7. Practice Round 4 1/21 Practice Round 5 1/28 Practice Round 6
Textbooks	There's no required textbook. References for advanced concepts and strategies in policy debate: (1) Freeley, Austin J. & Steinberg, David L. 2009. Argumentation & Debate: Critical Thinking for Reasoned Decision Making. (Several copies are available in the G30 program reserve shelf.) (2) Snider, Alfred C. 2008. Code of the Debater: Introduction to Policy Debating. (A pdf file is available from http://debate.uvm.edu/dcpdf/Code_2008.pdf)
Exams/Results Evaluation Method	The final grade will be based on the preparation and participation in debates. Participation in the Kyushu Sangyo University Debate Exchange (Saturday, 12/7) is required. There will be no final examination.
Others	
Link(s)	

Module Code	
Course Subject Classification	Languages and Cultures Subjects
Course Title	Basic Japanese IIIa
Intended Students	
Taught Year	The 2nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Thursday, the 1st period (8.40-10.10)
Subject Area	
Campus	Ito campus
Credit	1
Course Tutor	Satoru KOYAMA, Noriko GOTO, Miwa RIKIMARU
TA	
Pre-requisites	
Course Overview	This course (Basic Japanese III) is designed for the students to further develop language skills and deeply understand diverse cultures and values. According to their needs, students are encouraged to discuss social topics and make presentations as well as to increase vocabulary, grammatical patterns and Kanjis.
Study Objectives (general)	The main purpose of this course is to acquire and develop communication skills.
Study Objectives (specific)	By the end of this course, students are expected : <Elementary> to be able to talk about themselves and the thing around them without difficulty. to be able to maintain everyday conversation by the basic grammatical patterns and vocabulary. to be able to understand the point of what a speaker and writer says. <Intermediate> to be able to express opinions on familiar topics. to be able to exchange ideas and information on familiar topics. to be able to understand the main idea and some details of explanation on familiar topics. <Advanced> to be able to express opinions on social and academic topics. to be able to exchange ideas and information on social and academic topics. to be able to understand the main idea and some details of explanation on social and academic topics.
Study consultation (office hour)	Office: Room 1105 at Center Zone Building 1 Office Hours: Monday 5th period Email: koyama@isc.kyushu-u.ac.jp Phone: 99-2155 (Hakozaki)
Course Plan	The detailed class schedule will be distributed to you in your first class.
Textbooks	Elementary : Koyama (2008), J.Bridge for Beginners vol.II, Bonjinsha. Intermediate : Koyama (2002), J.Bridge to Intermediate Japanese, Bonjinsha. Advanced : 荻原稚佳子・齋藤眞理子・伊藤とく美『日本語超級話者へのかけはし』スリーエーネット
Exams/Results Evaluation Method	Elementary : (1) Conversation Test: 50%, (2) Homework: 40%, (3) Others: 10% Intermediate : (1) Class performance: 30%、(2) Speech: 30%、(3) Quizzes and Final Exam: 30%、(4) Homework: 10% Advanced : (1) Mid-term Test 1 (20%) , (2) Mid-term Test 1 (20%) , (3) Final Test (20%) , (4) Homework (30%) , (5) Class performance (10%)
Others	
Link(s)	

Module Code	
Course Subject Classification	Languages and Cultures Subjects
Course Title	Basic Japanese IIIb
Intended Students	
Taught Year	The 2nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Elementary, Intermediate and Advanced: Thursday, the 2nd period (10.30-12.00)
Subject Area	
Campus	Ito campus
Credit	1
Course Tutor	Satoru KOYAMA, Noriko GOTO, Miwa RIKIMARU
TA	
Pre-requisites	
Course Overview	This course (Basic Japanese III) is designed for the students to further develop language skills and deeply understand diverse cultures and values. According to their needs, students are encouraged to discuss social topics and make presentations as well as to increase vocabulary, grammatical patterns and Kanjis.
Study Objectives (general)	The main purpose of this course is to learn kanjis and increase vocabulary.
Study Objectives (specific)	By the end of this course, students are expected : <Elementary> to be able to read short and simple texts without difficulty. to be able to write short and simple texts and to recognized 250 Kanjis. <Intermediate> to be able to read factual texts on subjects related to their interest. to be able to write straightforward connected texts on subjects related to their interest and to recognized 500 Kanjis. <Advanced> to be able to read a wide range of long and complex texts. to be able to write complex texts in appropriate style and a logical structure and to recognized 1,000 Kanjis
Study consultation (office hour)	Office: Room 1105 at Center Zone Building 1 Office Hours: Monday 5th period Email: koyama@isc.kyushu-u.ac.jp Phone: 99-2155 (Hakozaki)
Course Plan	The detailed class schedule will be distributed to you in your first class.
Textbooks	Elementary: Kano et al. (1989), Basic Kanji Book vol.1, Bonjinsha. Intermediate: Kano et al. (1997), Intermediate Kanji Book 1, Bonjinsha. Advanced: Kano et al. (2001), Intermediate Kanji Book 2, Bonjinsha.
Exams/Results Evaluation Method	Introductory : (1) Exam: 50%, (2) Quiz & Homework: 40%, (3) Others: 10% Elementary : (1) Mid-term/Final Tests: 50%, (2) Quizzes and Homework: 40%, (3) Others: 10% Intermediate : (1) Mid term/ Final exams: 50%, (2) Quizzes and Homework: 40%, (3) Others: 10% Advanced : (1) Quizzes X 3 (30%) , (2) Final Test (30%) , (3) Homework (30%) , (4) Class performance (10%)
Others	
Link(s)	

Module Code	
Course Subject Classification	Languages and Cultures Subjects
Course Title	Basic Japanese IIIc
Intended Students	
Taught Year	The 2nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Monday, the 1st period (8.40-10.10)
Subject Area	
Campus	Ito campus
Credit	1
Course Tutor	Satoru KOYAMA
TA	
Pre-requisites	
Course Overview	This course (Basic Japanese III) is designed for the students to further develop language skills and deeply understand diverse cultures and values. According to their needs, students are encouraged to discuss social topics and make presentations as well as to increase vocabulary, grammatical patterns and Kanjis.
Study Objectives (general)	The main purpose of this course is to understand diverse cultures and values through interview projects.
Study Objectives (specific)	By the end of this course, students are expected to deeply understand diverse cultures and values and reflect themselves.
Study consultation (office hour)	Office: Room 1105 at Center Zone Building 1 Office Hours: Monday 5th period Email: koyama@isc.kyushu-u.ac.jp Phone: 99-2155 (Hakozaki)
Course Plan	The detailed class schedule will be distributed to you in your first class.
Textbooks	N.A.
Exams/Results Evaluation Method	(1) Presentation 1 at Interview Project (30%) , (2) Presentation 2 at Interview Project (40%) , (3) Presentation at Genyo Shogakko (30%)
Others	
Link(s)	

Module Code	
Course Subject Classification	Fundamental Subject for Natural Science Field
Course Title	Linear Algebra with Exercises B
Intended Students	G30 program
Taught Year	The 2nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Monday, the 4th period (14.50-16.20)
Subject Area	
Campus	Ito campus
Credit	1.5
Course Tutor	Mikhail Svinin
TA	Yichao Xu
Pre-requisites	Linear Algebra with Exercises A
Course Overview	The knowledge of linear algebra is fundamental to every field of mathematics. It is one of the areas of mathematical education that are essential for studying basic science and advance engineering. In this class, students will learn the basics of linear algebra through class lectures, clas exercises, homeworks, and examinations.
Study Objectives (general)	This course is designed to teach students the fundamentals of linear algebra and matrix analysis as well as the application Specific Goals: In this course emphasis is given to the following topics. 1. Course overview and preliminary; 2. Determinants; 3. Eigen-value and eigen vectors; 4. Linear transformations; 5. Application of matrices in science and
Study Objectives (specific)	In this class the students can acquire the following knowledge and skills. A. Students can understand the concept (and geometric interpretation) of determinants, and apply it solving systems of linear equations. B. Students can understand the concept of eigen-values and eigen-vectors of vectors and apply it to specific engineering problems. C. Students can learn the definition and practical skill of determining eigen-values and eigen-vectors of matrices. D. Students can extend the knowledge of vector and matrix quantities to those with complex numbers E. Students will learn practical application of matrices to different problems in science and engineering F. Students will get some initial knowledge on numerical methods for sor solving systems of linear equations
Study consultation (office hour)	Office: West Building No. 4, Room No. 424 Office Hours: By appointment Email: svinin@mech.kyushu-u.ac.jp Phone: 802-3181
Course Plan	We will try to follow the textbook (see below) as closely as possible. Tentative Weekly Schedule: 1. Definition and basic properties of determinants. 2. Cramer's rule, inverses, and volumes 3. Applications of determinants 4. Introduction to eigenvalues and eigenvectors 5. Diagonalizing a matrix 6. Applications to differential equations 7. Mid-term exam 8. Symmetric matrices 9. Positive definite matrices 10. Similar matrices 11. Singular value decomposition 12. The idea of a linear transformation 13. The matrix of a linear transformation 14. Diagonalization and the pseudoinverse 15. Overview of applications to engineering problems 16. Final Exam
Textbooks	Gilbert Strang (2009), Introduction to Linear Algebra, Fourth Edition, Cambridge Press.
Exams/Results Evaluation Method	1. Brief explanation of the method(s) of the assessment. This course will involve classes and regular assignments. Also, there will be two exams, the mid-term one and the final one. Students who will attend less than two thirds of the classes will be excluded from the final exam. 2. Note that it is not necessary to complete the assignments in order to pass the course. However, if you are able to complete the assignments, you should have no problems in passing the examinations. 3. The basic standard of the assessment. Activity in class: 10%, Home work assignmnts: 10%, Mid-term examination: 30%, Final examination: 50% "
Others	

Module Code	
Course Subject Classification	Fundamental Subject for Natural Science Field
Course Title	Fundamental Organic Chemistry
Intended Students	School of Engineering and School of Agriculture
Taught Year	The 2nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Tuesday, the 1st period (8:40-10:10)
Subject Area	
Campus	Ito campus
Credit	2
Course Tutor	Amelia B. Hizon
TA	
Pre-requisites	Basic knowledge in General Chemistry
Course Overview	This course covers the fundamental principles and theories concerning organic compounds which will help the students to learn the basic concepts allowing them to have a systematic understanding of the structures, classification and reactions of organic compounds.
Study Objectives (general)	To have an understanding of the structures, classification and reactions of organic compounds.
Study Objectives (specific)	<p>Specific Goals:</p> <p>To understand the bonding properties of carbon which make it to be present in a large number of compounds.</p> <p>To be able to correlate between organic structures and their physical and chemical properties.</p> <p>To name and classify organic compounds.</p> <p>To be able to predict and write the reactions that an organic compound will undergo based on its structure.</p> <p>To explain the fundamental concepts of organic chemistry and why it is relevant in our lives.</p> <p>To provide reasonable synthetic pathways for simple organic molecules.</p>
Study consultation (office hour)	<p>Office: Rm.210 Bldg. 2 Faculty of Agriculture, Kyushu University Hakozaki Campus</p> <p>Office Hours: 9:00- 18:00</p> <p>Email: amyhizon@agr.kyushu-u.ac.jp</p> <p>Phone: (092)-642-7159</p>
Course Plan	<p>Tentative Weekly Schedule:</p> <ol style="list-style-type: none"> 1. Course orientation; Bonding and Structure of Organic Compounds 2. Introduction to Organic Reactions and Mechanism 3. Alkanes 4. Alkenes & Alkynes 5. Reactions of Alkenes & Alkynes 6. Stereochemistry 1 7. Stereochemistry 2 (Continuation) 8. Aromatic compounds 9. Organic Halides 10. Alcohols 11. Phenols, Ethers and Epoxides 12. Aldehydes & Ketones 13. Carboxylic acids 14. Carboxylic acid derivatives (Acid halides, esters, anhydrides and amides) 15. Amines
Textbooks	Introduction to Organic Chemistry by W.H. Brown and T. Poon (4th ed.) and Fundamentals of Organic Chemistry by John McMurry (7th ed.)
Exams/Results Evaluation Method	<p>Quizzes= 15%</p> <p>Short Exams=50%</p> <p>Final Exam= 35%</p>
Others	A minimum of 80% attendance is mandatory, i.e. students whose absence is higher than 3 out of the 15 classes will not be eligible for the credits of the course. Attendance will be monitored.

Module Code	
Course Subject	Fundamental Subject for Natural Science Field
Course Title	Elements of Waves and Thermal Physics
Intended Students	G30 program (2 nd year course)
Taught Year	The 2 nd Year
Course Year	2012-2013
Course Term	Third (Autumn) semester
Taught Day	Wednesday, 4 th Period (14:50-16:20)
Subject Area	Physics
Campus	Ito Campus
Credit	2
Course Tutor	Hakim SAIBI
TA	None
Pre-requisites	Students will be expected to have a working knowledge of algebra and be able to use trigonometry (at the level of sine, cosine, and tangent), exponents and logarithms, direct and inverse proportions, differential calculus, and integrals.
Course Overview	Designed primarily for engineering students. Students will learn basics of oscillation and wave phenomena in the first half of the course and heat phenomena in the second half of the course. Students will learn through class lectures, class exercises and homework.
Study Objectives	This course is part of the Basic Science Courses. In this course students will learn about the basic principles of
Study Objectives (Specific)	The goals of this course are twofold. The first goal is to develop an understanding of the basic concepts and physical principles in waves and thermodynamics. The student will develop a qualitative sense of "how things work". Secondly, the student will learn to solve specific quantitative problems using the physics concepts developed in this course. By the end of the course students should be able to understand: 1- The most fundamental type of oscillatory motion-simple harmonic motion, damped and driven oscillations; 2- Wave motion, periodic and harmonic waves; 3- Thermodynamics and kinetic theory of gases.
Study consultation (office hour)	Office: West Building No.2- Office No. 431 Office Hours: By appointment. E-mail: saibi-hakim@mine.kyushu-u.ac.jp Phone: 092-802-3316 (office)
Course Plan	Lecture 1: Simple harmonic motion, energy in simple harmonic motion, some oscillating systems. Lecture 2: Damped oscillations, forced oscillations and resonance. Lecture 3: Coupled oscillators. Lecture 4: Simple wave motion. Lecture 5: Periodic waves, waves in three dimensions. Lecture 6: Waves encountering barriers: reflection, transmission, refraction, and diffraction. Lecture 7: Superposition of waves. Lecture 8 : Standing waves. Lecture 9: Thermodynamics (concepts, definitions, and basic principles) Lecture 10: Temperature and the Zeroth Law of Thermodynamics. Lecture 11: The ideal gas law and the kinetic theory of gases. Lecture 12: Heat and the first law of thermodynamics. Lecture 13: Heat capacity and specific heat. Lecture 14: The second law of thermodynamics Lecture 15: Irreversibility, disorder, and entropy. End of Semester Exam
Textbooks	· Paul A. Tipler and Gene Mosca (2007) Physics for scientists and engineers with modern physics, Ed. W. H. Freeman, 1356 p. Part 2 (Oscillations and Waves), Part 3 (Thermodynamics) · French, A. P. (1971) Vibrations and Waves (M.I.T. Introductory Physics), New York, N.Y.: W.W. Norton & Company, 316 p. · Ingard, K. U. (1988) Fundamentals of waves and oscillations, Cambridge University Press, 612 p.
Exams/Results Evaluation Method	Grades will be determined according to the following weights: Test and homework: 30% + Attendance and in-class activities: 30% + End of Semester Exam:40%

Module Code	
Course Subject Classification	Fundamental Subject for Natural Science Field
Course Title	Elements of Electromagnetism
Intended Students	G30 program
Taught Year	The 2nd year
Course Year	2013
Course Term	Third (Autum) Semester
Taught Day	Thursday, the 3rd period (13.00-14.30)
Subject Area	
Campus	Ito campus
Credit	2
Course Tutor	Hisao Kuriyaki
TA	
Pre-requisites	
Course Overview	Using vector analysis and differential and integral calculus, the following are systematically acquired : Electrostatic field and fundamental matter in the electromagnetics from static magnetic field to the Maxwell equation.
Study consultation (office hour)	Office: Department of Electronics, Room 457 (on the 4th floor), West Bld. 2nd, Ito Campus Office Hours: Email: kuriyaki@ed.kyushu-u.ac.jp Phone: 092-802-3735
Course Plan	We will cover(most parts of) Chapters 1, 2, 3, 4 and parts of Chapter 5 in the textbook e.g. Tentative Weekly Schedule: 1. Vector Analysis 1 2. Vector Analysis 2 3. Static Electric Fields 1(electric fields) 4. Static Electric Fields 2(electric flux) 5. Static Electric Fields 3(gradient, divergence, curl and laplacian) 6. Static Electric Fields 4(electrostatics) 7. Static Electric Fields 5(electric current) 8. Static Electric Fields 6(capacitance and dielectric materials) 9. Static Electric Fields 7(laplace's equation) 10. Static Magnetic Fields 1(magnetic field and boundary conditions) 11. Static Magnetic Fields 2(forces and torques in magnetic fields) 12. Static Magnetic Fields 3(inductance) 13. Time Varying Fields and Maxwell's Equation 14. Electromagnetic Waves 15. Final Exam.
Textbooks	Textbook: Joseph Edminister, Schaum's Easy Outline of Electromagnetics (Schaum's Easy Outlines) , McGraw-Hill; 1st edition (2002/8/12) ISBN-10: 0071398791 Reference Book: Schaum's Outline of Electromagnetics, Third Edition (Schaum's Outline Series), McGraw-Hill; (2010/10/26) ISBN-13: 978-0071632355
Exams/Results Evaluation Method	1. Attendance : 30% 2. Tutorial Exercises and home work : 30% 3. Final Examination : 40%
Others	
Link(s)	http://ultrabio.ed.kyushu-u.ac.jp/

Course Subject	Fundamental Natural Science Subjects
Course Title	Basic Laboratory Experiments in Natural Science
Intended Students	Engineering and Bioresource and Bioenvironment
Taught Year	The 2 nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Friday, 1st & 2nd periods (8:40-12:00)
Subject Area	
Campus	Ito campus
Credit	2
Course Instructors	Dr. Vishwajit Sur Chowdhury, Dr. Takuma Yamada, Dr. Andrew Robertson, Dr. Hakim Saibi, Dr. Layne
TA	T.B.A.
Pre-requisites	N.A.
Course Overview	It is essential to acquire a wide range of knowledge in natural science in addition to your specific field of study. In
Study Objectives (specific)	<p>(Physics) 1)To provide students with basic understanding of natural phenomena; 2) to deepen their interest in physics through practical experiments; and also 3) to learn basic laboratory operations and scientific report writing.</p> <p>(Geoscience) 1) To understand rocks that formed and constitute the earth in terms of morphology, chemical composition, and density; and 2) to understand the principle of isostasy and the importance of density and buoyancy in the evolution and composition of the Earth.</p> <p>(Chemistry) 1) To familiarize students with the execution of basic chemistry experiments; 2) to reinforce the teaching of basic chemistry principles by means of practical experiments; and 3) to familiarize students with essential safety procedures when operating in chemistry laboratories.</p> <p>(Biology) 1) To deepen understanding of cells and DNA as the building blocks of life and the genetic instructions used in the development and functioning of all known living organisms, respectively; and 2) to learn some basic experimental techniques of biology, namely microscopic observation of biological specimens and polymerase chain reaction (PCR) analysis.</p>
Study consultation (office hour)	<p>General Inquiry: Ms. Mika Tamura Office: Room 309-2 West 4 building, Westzone Ito campus Email: mikatamura@mail.cstm.kyushu-u.ac.jp Phone: 092-802-3872 (ex. 3872)</p>
Course Plan	<p>Weekly Schedule:</p> <p>Oct. 4 General Course Guidance & Physics Guidance: Mika Tamura & Dr. Takuma Yamada (ROOM #1504) Oct. 11 Physics: Dr. Takuma Yamada (1504) Oct. 18 Physics: Dr. Takuma Yamada (1503) Oct. 25 Physics: Dr. Hakim Saibi (1507) Nov. 1 Geoscience (as a part of Physics): Dr. Hakim Saibi (1507) Nov. 8 Chemistry: Dr. Andrew Robertson (1603) Nov. 15 Chemistry: Dr. Andrew Robertson (1603) Nov. 29 Chemistry: Dr. Andrew Robertson (1603) Dec. 6 Chemistry: Dr. Andrew Robertson (1603) Dec. 13 Chemistry: Dr. Andrew Roberson (1603) Dec. 20 Biology Guidance: Dr. Layne Westover & Dr. Vishwajit Sur Chowdhury (1604) Jan. 10 Biology: Dr. Layne Westover (1604) Jan. 16 Biology: Dr. Layne Westover (1604) Jan. 24 Biology: Dr. Vishwajit Sur Chowdhury (1605) Jan. 31 Biology: Dr. Vishwajit Sur Chowdhury (1604)</p>
Textbooks	N.A.
Exams/Results Evaluation Method	<p>General Course Guidance 1%</p> <p>Physics + Geoscience: Guidance 1% + 8 % x 4 experiments = 33%</p> <p>Chemistry: Guidance 1% + 8 % x 4 experiments = 33%</p> <p>Biology: Guidance 1% + 8 % x 4 experiments = 33%</p>
Others	
Link(s)	

Module Code	
Course Subject Classification	Fundamental Subject for Natural Science Field
Course Title	Fundamental Cell Biology
Intended Students	School of Agriculture, School of Engineering
Taught Year	The 2nd year
Course Year	2013
Course Term	Autumn Semester
Taught Day	Friday, 4th period (14:50-16:20)
Subject Area	
Campus	Ito campus
Credit	2
Instructor	Vishwajit Sur Chowdhury
TA	
Pre-requisites	None
Course Overview	Students learn how the living cell works through class lectures, problem-based learning and assignments.
Overall Objectives	This course is designed to teach students how the cellular and molecular mechanisms work in living organisms.
Specific goals	We aim to achieve the knowledge on the following aspects: 1. Cell and its division 2. DNA and chromosomes 3. DNA replication, repair and recombination 4. Analyzing genes and genomes 5. Protein and its metabolism 6. From DNA to protein
Study consultation (office hour)	Office: 406, Faculty of Agriculture # 1, Hakozaki campus Office Hours: By appointment Email: vc-sur@artsci.kyushu-u.ac.jp Phone: 092-642-2954
	Course plan: 1-4: Cell and its division: Introduction to cells, overview of the cell cycle, the cell-cycle control system, control of cell number and cell size. 5-7: DNA and chromosome: The structure and function of DNA, the structure of eukaryotic chromosome, the regulation of chromosome structure. 8-9: DNA replication, repair and recombination: DNA replication, DNA repair, homologous recombination, mobile genetic elements and viruses. 10-11: Analyzing genes and genomes: Manipulation and analyzing DNA molecules, DNA cloning, deciphering and exploiting genetic information. 12-13: Proteins: Structure of proteins, nitrogen metabolism, amino acid degradation and synthesis. 14: From DNA to protein: How cells read the genome: from DNA to RNA, from RNA to protein, RNA and the origin of life. 15-16: Mid-term Exam(s) and Final Exam
Textbooks	Alberts, Bray, Hopkin, Johnson, Lewis, Raff, Roberts and Walter (2010). Essential Cell Biology, Third Edition
Exams/Results Evaluation Method	1. Attendance and class participation/activities: 10% 2. Mid-term exams: 40% 3. Final Exam: 50%
Others	
Link(s)	

Module Code	
Course Subject Classification	Integrated Subjects
Course Title	Language and Communication in Society
Intended Students	G30 Engineering & Agriculture
Taught Year	1st & 2nd years
Course Year	2013
Course Term	Autumn Semester
Taught Day	Thursday, 4th period (14.50-16.20)
Subject Area	
Campus	Ito campus
Credit	2
Course Tutor	Gerald CIPRIANI
TA	
Pre-requisites	Reasonable knowledge of the English language
Course Overview	This course explores various topics about language and communication in human society including: What is language? What is communication? How do language and communication function in society?
Study Objectives (general)	Students will learn basic theories and discuss real-world examples of issues involving language and communication. Students will achieve this aim through research, writing, critical thinking, group discussion, lecture note-taking and oral
Study Objectives (specific)	By the end of the course students should be able to: 1. research and write a coherent essay (with citations) on a particular relevant topic. 2. make an academic oral presentation using audio-visual aids on the topic of their research. 3. take part actively in constructive and critical dialogues. 4. take effective, precise and rigorous notes from high-level academic lectures.
Study consultation (office hour)	Office: Gerald Cipriani: SCS-FLC Building, Room 230 Email: cipriani@flc.kyushu-u.ac.jp Students are welcome to ask for help and support during the semester. Appointments must be made a week in advance by email.
Course Plan	Classes take the form of a combination of lecture-style presentations including audio-visuals, and group discussions. Essays, in-class exams, and a term paper will give practice in rigorous and critical academic writing in relevant subjects. Oral presentations followed by discussions will train students to express themselves clearly, coherently and with precision. Tentative Weekly Schedule: 1 Introduction: language and communication 2. Language in history and culture 3. Forms of language 4. The written world 5. The politics and practice of reading 6. Dialogue, conversation, literature 7. The artist as visual communicator 8. Mid-term in-class exam 9. Language in a multicultural society 10 Communication and modern culture 11. Telling stories 12. Course review. Oral presentations skills 13. Students' presentations 14. Students' presentations 15. Final in-class exam
Textbooks	There is no textbook. All learning materials will be provided by the instructor. Indicative sources: <i>In Our Time</i> , BBC Radio4, Melvyn Bragg: http://www.bbc.co.uk/programmes/b006qykl <i>The Oxford Book of Japanese Short Stories</i> , ed. Theodore W. Goossen (Oxford: Oxford University Press, 2010)
Exams/Results Evaluation Method	1. Mid-term in-class exam (500 words) 20% 2. Oral presentation + discussion 20% 3. Final in-class exam (500 words) 20% 4. Term homework paper 30% (2000 words) 5. Attendance 10%
Link(s)	Kyushu University: http://hyoka.ofc.kyushu-u.ac.jp/search/details/K003859/index.html Gerald Cipriani: www.geraldcipriani.net