

NUPACE Academic Policies & Syllabi Autumn 2015

NAGOYA UNIVERSITY
名古屋大学交換留学受入プログラム

NUPACE Academic Calendar & Policies – Autumn 2015

1. Calendar

Oct 1 ~ Jan 27	NUPACE/G30 & regular university courses
Oct 5 ~ Jan 25	University-wide Japanese Language Programme (UWJLP)
Jan 28 ~ Feb 10	Examination period for regular university courses
Dec 28 ~ Jan 7	Winter vacation for NUPACE & regular university courses
Dec 23 ~ Jan 3	Winter vacation for UWJLP programme

Apr 11 Spring 2016 semester commences

National Holidays (In principle, no classes will be held on the following days)

Oct 12*	体育の日	(Health-Sports Day)
*Japanese language courses will be held as normal		
Nov 3	文化の日	(Culture Day)
Nov 23	労働感謝の日	(Labour Thanksgiving Day)
Dec 23	天皇誕生日	(Emperor's Birthday)
Jan 11	成人の日	(Coming-of-Age Day)
Feb 11	建国記念日	(National Foundation Day)
Mar 21	振替休日(春分の日)	(Holiday in lieu of Vernal Equinox Day)

2. List of Courses Open to NUPACE Students

1. <NUPACE Programme> For G30 International Programs, refer to p. 4.

Japanese Language Programmes (International Language Center (ILC)):	p 12
Standard Course in Japanese (7 Levels: SJ101~SJ301)	1~5 crdts p 13
Intensive Course in Japanese (6 Levels: IJ111~IJ212)	2~10crdts p 14
漢字< Kanji > 1000	1 credit p 15
Academic Japanese I, III, V	1.5 crdts p 15
Business Japanese I, III	1.5 crdts p 16

入門講義 <J>* (Introductory Courses Taught in Japanese) (ILC)

国際関係論 I (Global Society I)	2 credits p 16
日本文化論 I (Introduction to Japanese Society & Culture I)	2 credits p 17
日本語学・日本語教育学 I (Introduction to Japanese Linguistics I)	2 credits p 18
言語学入門 I (Introduction to Linguistics I)	2 credits p 18
日本文学 I (Japanese Literature I)	2 credits p 19
*<J> Courses taught in Japanese and which require level 2/N2 of the Japanese Language Proficiency Test (JLPT), or equivalent.	

Other Foreign Language Courses (Graduate School of Languages & Cultures) 2 credits p 19

Courses in the Student's Major (English Language Programme)

<u>Institute of Liberal Arts and Sciences (ILAS)</u>	
Personal Transformation (Graduate)	2 credits p 21

International Education & Exchange Center (IEEC)

A Multicultural Approach to Contemporary Issues	2 credits p 22
Teaching Practice in the Japanese Community	2 credits p 22

<u>School of Agricultural Sciences:</u> Also refer to G30 International Programmes on p. 4	
Agricultural Science	2 credits p 23

School of Economics: Refer to G30 International Programmes on p. 4

School of Engineering: Also refer to G30 International Programmes on p. 4

Academic, Scientific, and Technical English	1 credit	p 24
Civil Engineering & Policies for Developing Countries I (Graduate)	2 credits	p 24
Introduction to Civil Engineering & Architecture	2 credits	p 25
Overview of Advanced Electrical, Electronic & Information Engineering	2 credits	p 25
Science & Technology in Japan	2 credits	p 26

Graduate School of Environmental Studies

Climate Change Policies	2 credits	p 27
Ecosystem Management	2 credits	p 27
Environmental Industry Systems	2 credits	p 28
Planning and Design Studio for Historical Environment (2 nd quarter; Graduate)	2 credits	p 29
Studio Workshop of Architectural Design (1 st quarter; Graduate)	2 credits	p 29
Sustainability and Environmental Studies	2 credits	p 30
Water and Waste Engineering	2 credits	p 30

Graduate School of International Development (G.SID):

Educational Development and Co-operation	2 credits	p 32
Japan's Development Experience	2 credits	p 32
Lecture on International Development I: International migration theory	2 credits	p 32
The Law of the United Nations	2 credits	p 33

Graduate School of Languages & Cultures (G.SLC): Also refer to G30 International Programmes on p. 4

North American Cultural Studies b: F. Scott Fitzgerald and the 1920s	2 credits	p 34
Pragmatics of Verbal Expression b: Innovative writing and translation	2 credits	p 34
Topics in the Geography of Culture I: Ethics in major religious traditions	2 credits	p 35

Graduate School of Law: Also refer to G30 International Programmes on p. 4

Comparative Studies in Jurisprudence II: Uses of the Public Sphere – Good Practice vs. Corruption	2 credits	p 35
Professional Studies in Int'l Economic Law II: Problems of Int'l Economic Law	2 credits	p 36
Professional Studies in Int'l Human Rights Law II: Seminar on Human Rights & Refugee Law	2 credits	p 36
Special Lecture and Seminar: Workshop on International Negotiation	2 credits	p 37
Special Lecture and Seminar: <i>Yomiuri Shimbun</i> Special Lecture – Comparative Asian Corporate Theory	2 credits	p 37
Studies in Jurisprudence: Law as Political Theory I B	1 credit	p 37

School of Letters: Also refer to G30 International Programmes on p. 4

日本語文化入門 II (Introduction to Japanese Language & Culture II) <J*>	2 credits	p 38
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<J> Course which requires at least level 2/N2 of the Japanese Language Proficiency Test (JLPT), or equivalent.

Graduate School of Mathematics:

Perspectives in Mathematical Sciences II (Graduate)/IV (Undergraduate)	2 credits	p 38
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School of Science: Also refer to G30 International Programmes on p. 4

Advanced Quantum Chemistry	2 credits	p 40
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Class Time-table: NUPACE Programme (Courses in the Student's Major, Academic Japanese, Business Japanese, *Kanji*, and 入門講義 <Introductory Courses in Japanese>)

Unless indicated otherwise, the following courses commence on Thursday, October 1, 2015. Students should refer to the course descriptions in this pamphlet for details on course content and eligibility, and the enclosed floor maps for the locations of classrooms.

	Mon	Tue	Wed	Thu	Fri
(I) 08:45-10:15		Educational Development and Co-operation (GSID, 5F, Sem Rm 6 (515))		Water and Waste Engineering (Env. Studies, Lect. Rm 1) Studio Workshop of Architectural Design <1 st qtr> (ES, 435) Workshop on Int'l Negotiation (Law, Sem. Rm 911)	
(II) 10:30-12:00		Personal Transformation (Liberal Arts & Sciences – Main Bldg, 2F, Rm S21)	Advanced Quantum Chemistry (Sc. Bldg, B, Lecture Rm 3 <B-116>)	Workshop on Int'l Negotiation (Law, Sem. Rm 911) Studio Workshop of Architectural Design<1 st qtr> (ES, 435) Env. Industry Systems (Env. Studies, Lect. Rm 1)	Sustainability & Environmental Studies (Env. Studies, Lect. Rm 2) North American Cultural Studies b: Fitzgerald (IRB Humanities & Soc. Sc., Rm 623)
(III) 13:00-14:30	国際関係論 I<J> (IEEC, Rm 207E)	Prof. Studies in Int'l Human Rights Law II: Sem. on Human Rights & Refugee Law (Law, Sem. Rm 905)	Japan's Development Experience (GSID, 8F, Auditorium)	日本文化論 I<J> (IEEC, Rm 207W)	言語学 I<J> (IEEC, Rm 207E)
	Climate Change Policies (Env. Studies, Lect. Rm 2)	Perspectives in Mathematical Sc. II/IV (Grad. School of Mathematics Bldg., Rm 109)	Science & Technology in Japan (Eng. Bldg. 1, Rm 131)	漢字 1000 (IEEC, Rm 207E)	Comparative Studies in Jurisprudence II: Uses of the Public Sphere (Law, Sem. Rm 905)
	Professional Studies in Int'l Economic Law II: Problems of Int'l Economic Law (GSID, 7F, Sem. Rm. 9 (710))	Overview of Adv. Electrical, Electronic & Info Eng. (Eng. Bldg. 3, Rm 342)	Ecosystem Management (Liberal Arts & Sciences – Main Bldg, 3F, Rm S155) Civil Engineering & Policies for Developing Countries I (Eng Bldg. 9, 1F, Rm 911)	Planning & Design Studio for Historical Env. <2 nd qtr> (ES, 435)	Intro to Civil Eng. & Architecture (Eng. Bldg 8, Rm. 8-102)
(IV) 14:45-16:15	日本語学・日本語教育学 I<J> (IEEC, Rm 207E) Academic Japanese V (漢字 2000) (IEEC, Rm 301)	Overview of Adv. Electrical, Electronic & Info Eng. (Eng. Bldg. 3, Rm 342)	Civil Engineering & Policies for Developing Countries I (Eng Bldg. 9, 1F, Rm 911) Special Lect. & Sem: Yomiuri Shimbun Special Lect. - Comp. Asian Corporate Theory (Law, Sem. Rm 911)	Planning & Design Studio for Historical Env. <2 nd qtr> (ES, 435) Studies in Jurisprudence: Law as Political Theory I B (IRB Humanities & Soc. Sc., Rm 404-405) Lect. on Int'l Development 1: Int'l Migration Theory (GSID, 6F, Lect. Rm 1 (607)) 日本文学 I (IEEC, Rm 207E)	Intro to Civil Eng. & Architecture (Eng. Bldg 8, Rm. 8-102) Academic, Scientific, & Technical English (Eng. Bldg 1, 2F, Rm. 121) From Oct.9
		Overview of Adv. Electrical, Electronic & Info Eng. (Eng. Bldg. 3, Rm 342) Topics in the Geography of Culture I: Ethics in Major Religious Traditions (IRB Humanities & Soc. Sc., Rm 522) The Law of the United Nations (GSID, 6F, Lect. Rm. 3 (613))	Special Lect. & Sem: Yomiuri Shimbun Special Lect. - Comp. Asian Corporate Theory (Law, Sem. Rm 911) Teaching Practice in the Japanese Community (Poppins-After-School) Agricultural Science (Agric. Sc., Lect. Rm 6)	日本語文化入門 II<J> (Letters, Lect. Rm 237)	A Multicultural Approach to Contemporary Issues (IEEC, Rm 207W) Pragmatics of Verbal Expression b: Innovative writing and translation (IRB Humanities & Soc. Sc., Rm 623)
(V) 16:30-18:00		Overview of Adv. Electrical, Electronic & Info Eng. (Eng. Bldg. 3, Rm 342)	Special Lect. & Sem: Yomiuri Shimbun Special Lect. - Comp. Asian Corporate Theory (Law, Sem. Rm 911)	日本語文化入門 II<J> (Letters, Lect. Rm 237)	A Multicultural Approach to Contemporary Issues (IEEC, Rm 207W)
(VI) 18:15-19:45		Academic Japanese (L&P) I (IEEC, Rm. 301) Academic Japanese (L&P) III (IEEC, Rm 207E)	Academic Japanese (R&W) I (IEEC, Rm 301) Academic Japanese (R&W) III (IEEC, Rm 207E)	Business Japanese I (IEEC, Rm. 207E) Business Japanese III (IEEC, Rm. 207W)	

2. <Global 30 (G30) International Programmes (English-taught)>

Website for G30 programmes: <http://admissions.g30.nagoya-u.ac.jp/en/Program/>

Undergraduate Programmes:

Detailed information on undergraduate G30 programmes, including course lists and syllabi:

<http://admissions.g30.nagoya-u.ac.jp/en/Program/undergraduate/>

Hard copies of the latest course syllabi are also available in the NUPACE Office.

Programme	Academic Field(s)
Automotive Engineering	Mechanical Engineering Electrical, Electronic, & Information Engineering
Biological Sciences	Biological Science Applied Biosciences
Chemistry	Chemistry Chemical and Biological Engineering
Fundamental & Applied Physics	Physics Physical Science and Engineering
Social Sciences	Law and Political Science (also see http://law.nagoya-u.ac.jp/en/curriculum/g30/) Economics and Business Administration
Japan-in-Asia Cultural Studies	Modern Literature, Cinema, Modern History (also see http://www.lit.nagoya-u.ac.jp/g30/)
Liberal Arts and Sciences (Institute of Liberal Arts and Sciences)	Subjects, including a limited number from the academic disciplines above, that are open to students generally, irrespective of major. http://tmdu.ilas.nagoya-u.ac.jp/office/

Graduate Programmes:

Detailed information on graduate G30 programmes:

<http://admissions.g30.nagoya-u.ac.jp/en/Program/graduate/>

Information on research groups and laboratories:

http://admissions.g30.nagoya-u.ac.jp/en/Program/graduate/laboratories_groups.html

Hard copies of the latest course syllabi are also available in the NUPACE Office.

Graduate School	Academic Field(s)
Engineering	Automotive Engineering
Science/Mathematics	Physics and Mathematics
Science/Engineering	Chemistry
Science/Bioagricultural Sciences/ Medicine	Biological and Bioagricultural Sciences
Medicine	Medical Science
Languages and Cultures* (*Open to NUPACE students with the exception of <i>Thesis Writing I, II</i> and <i>A Comparative History of Broadcasting</i>)	Comparative Studies of Language and Culture Timetable: http://www.lang.nagoya-u.ac.jp/G30/clc/pdf/timetable-15.pdf Course Descriptions: http://www.lang.nagoya-u.ac.jp/G30/clc/pdf/course-descriptions-15.pdf
Economics	Economics and Business Administration
Letters	Japan-in-Asia Cultural Studies (also see http://www.lit.nagoya-u.ac.jp/g30/)

3. <Courses in the Student's Major Taught in Japanese >

Students participating in NUPACE are eligible to register for most Japanese-taught courses offered to degree-seeking students at Nagoya University, provided that they have a suitable academic background and possess level N1 of the Japanese Language Proficiency Test (JLPT). Access to online information on individual schools and departments is available at <http://www.nagoya-u.ac.jp/about-nu/org/sch-list/>.

The following is a list of Nagoya University's schools and corresponding departments, with details on courses and syllabi available at the URLs listed beneath the departments:

学部レベル:

文学部:	哲学、文明論、歴史学、文化史学、文学、言語学、環境・行動学 http://syllabus.lit.nagoya-u.ac.jp/
教育学部:	生涯教育学科、学校教育学科、国際教育文化学、心理行動学科、発達臨床学科 http://www.educa.nagoya-u.ac.jp/school/index.html
法学部:	基礎実定法学、基礎政治学、現代基礎法学、紛争処理法制、企業経済法制、公共政策、国際関係、法政情報 http://infosv.law.nagoya-u.ac.jp/syllabus/ngo/law/ug/15/pubList
経済学部:	理論経済、応用経済、企業経営、情報会計 http://www.soec.nagoya-u.ac.jp/btm/under_gr/school.html
情報文化学部:	複雑システム、数理情報、環境システム、環境法系システム、社会地域環境、心理システム、メディア社会 http://www.sis.nagoya-u.ac.jp/aboutsis/gakka.html
理学部:	数学、物理学、化学、生物科学、地球惑星科学 http://www.sci.nagoya-u.ac.jp/education/index.html
医学部:	解剖学、生理学、生化学、病理学、微生物学、医動物学、免疫学、法医学、衛生学、公衆衛生学、予防医学、内科学、神経内科学、外科学、胸部外科学、整形外科学、産婦人科学、眼科学、精神医学、小児科学、皮膚科学、泌尿器科学、耳鼻咽喉科学、放射線医学、麻酔学、口腔外科学、脳神経外科学、老年科学、救急医学、臨床検査医学 http://www.med.nagoya-u.ac.jp/medical/1804/index.html (medicine) 基礎看護学、臨床看護学、発達看護学、地域・住宅看護学、基礎放射線技術学、医用放射線技術学、基礎検査学、病因・病態検査学、基礎理学療法学、病態理学療法学、基礎作業療法学、病態作業療法学 http://www.met.nagoya-u.ac.jp/SCHOOL/kyoiku.html (health sciences)
工学部:	応用科学、分子化学工学、生物機能科学、材料工学、応用物理学、量子エネルギー工学、電気電子工学、情報工学、機械システム工学、電子機械工学、航空宇宙工学、環境土木工学、建築学 http://www.engg.nagoya-u.ac.jp/school/index.html

3. <日本語で開講されている授業科目について>

NUPACE に参加する学生は、学業上有益であると認められる場合には、日本語での正規授業を履修することができます。ただし、日本語能力試験 (JLPT) において N1 レベル相当を取得していることが条件となります。各学部・研究科の情報は下記のウェブサイトを参照してください。
<http://www.nagoya-u.ac.jp/about-nu/org/sch-list/>

名古屋大学には以下の学部・研究科があります。コースシラバスは、それぞれのウェブサイトから見ることができます。

農学部: 生物環境科学、資源生物科学、応用生命科学
<http://www.agr.nagoya-u.ac.jp/agricultural/agg-program.html>

大学院レベル:

文学研究科: 比較人文学、日本文化学、つがつく、言語学、東洋学、日本私学、東洋史学、西洋史学、美術史学、考古学、日本文学、日本語学、西洋文学、西洋語学
<http://syllabus.lit.nagoya-u.ac.jp/public/index>

教育発達科学研究科: 生涯教育学、学校情報環境学、相関教育科学、高等教育学、生涯スポーツ科学、心理社会行動科学、精神発達臨床科学、スポーツ行動科学
<http://www.educa.nagoya-u.ac.jp/graduate/index.html>

法律研究科: 基幹法、政治学、現代法システム論、国際・比較法政、アジア法政
<http://infosv.law.nagoya-u.ac.jp/syllabus/ngo/law/gs/15/pubList>

経済学研究科: 市場・制度分析、社会経済分析、制作システム分析、社会環境システム、企業システム、経営改新、情報創造
http://www.soec.nagoya-u.ac.jp/htm/graduate/grad_sch.html

理学研究科: 素粒子宇宙物理学専攻、物質理学専攻、生命理学専攻
<http://www.sci.nagoya-u.ac.jp/graduate/lectures.html>

医学系研究科: 分子総合医学専攻、細胞情報医学専攻、機能構築医学専攻、健康社会医学専攻、医科学専攻医療行政コース、看護学専攻、医療技術学専攻、リハビリテーション療法学専攻
<http://www.med.nagoya-u.ac.jp/medical/1854/igakubakushikatei.html> (medicine)
<http://www.met.nagoya-u.ac.jp/NAVI/entrance-g.html> (health sciences)

工学研究科: 科学・生物工学専攻、マテリアル理工学専攻、電子情報システム専攻、機械理工学専攻、航空宇宙工学専攻、社会基盤工学専攻、結晶材料工学専攻、エネルギー理工学専攻、量子工学専攻、マイクロ・ナノシステム工学専攻、物質制御工学専攻、計算理工学専攻
<http://www.engg.nagoya-u.ac.jp/graduate/index.html>

生命農学研究科: 生物圏資源学専攻、生物機構・機能科学専攻、応用分子生命科学専攻、生命技術科学専攻
<http://www.agr.nagoya-u.ac.jp/graduate-school/grsc-4major.html>

国際開発研究科: 国際開発専攻、国際協力専攻、国際コミュニケーション専攻
<http://www.gsid.nagoya-u.ac.jp/global/faculty/index.html>

多元数理科学研究科: 基幹数理、自然数理、社会数理、数理分析、高次元相
<http://www.math.nagoya-u.ac.jp/ja/admission/2015/research.html>

国際言語文化研究科: 日本語文化学、日本語教育学、応用言語学、比較日本文学、現代日本語学、日本語教育方法論、多元文化論、先端文化論、アメリカ言語文化、東アジア言語文化、ヨーロッパ言語文化、ジェンダー論、メディアプロフェッショナル論
<http://www.lang.nagoya-u.ac.jp/koza.html>

環境学研究科: 地球環境科学専攻、都市環境学専攻、社会環境学専攻
<http://www.env.nagoya-u.ac.jp/syllabus/cur/syllabus.php>

情報科学研究科: 計算機数理科学専攻、情報システム学専攻、メディア科学専攻、複雑系科学専攻、社会システム情報学専攻
<http://www.is.nagoya-u.ac.jp/intro/dept.html>

3. Notes on Japanese-taught and other Regular Courses

Students participating in NUPACE are eligible to register for other courses offered to degree-seeking students at Nagoya University. Prior to registration, however, students are requested to consult their academic advisors (pp. 41~42) and confirm with the instructor(s) of the course(s) in question that they meet the academic and language requirements of the class. Where students obtain such approval and decide to register for the course, they should pick up a 'NUPACE Student Course Admission Request Form' at the NUPACE Office, and submit it to the relevant instructor.

Pre-requisites and Restrictions Regarding Registration for Other Courses:

1. Students may not register for any sport/physical exercise courses.
2. Students may not take more than one foreign language course per semester. (Japanese is not included in this requirement.)

NUPACE に参加する学生は、名古屋大学の正規学生を対象に開講されている授業を履修することができます。しかし事前に指導教員(41-42 ページ)と相談し、同意を得る必要があります。また、その授業に必要な言語やバックグラウンド等の条件を満たしているかについて、その授業の担当教員に判断してもらい、受講の許可を得る必要があります。許可を得たうえで履修することを決定した場合、「履修登録・成績評価に関するお願い」を NUPACE オフィスで受け取り、授業担当教員へ提出してください。

NUPACE で提供される授業以外のコースを登録するための条件と制限

1. スポーツあるいは運動の授業を履修することはできません。
2. 日本語の授業を除き、一学期に履修できる外国語の授業は一つまでです。

4. Students engaging in Research/Guided Independent Study/Clinical

Practice

1. Special Research Students:

Special Research Students are students enrolled in graduate degrees (master's/doctorate) at their home institutions who, at Nagoya University, wish to engage primarily in supervised research. Research students may register for credits, but are exempt from the obligation to earn credits at Nagoya University. Instead they are required to provide the NUPACE Office with the results of their research work at the end of each semester. Research work presented to the NUPACE Office must have the stamp of the student's academic advisor/research supervisor on the title page.

Approximate length of report: 30 pages per semester (18 pages if written in Japanese)
Report submission deadline for autumn 2015 semester: Friday, February 5, 2016

1. 特別研究学生

在籍大学で大学院修士課程・博士課程にあり、本学指導教員のもと研究指導を希望する学生は、特別研究学生の身分が付与されます。特別研究学生は、授業履修による規定単位数を取得する代わりに、各学期末に研究成果報告書を NUPACE オフィスに提出しなければなりません。報告書の表紙には指導教員/副指導教員(研究指導教員)の捺印が必要です。なお、研究指導と併せて授業履修を希望する場合には、単位取得も可能です。

一学期当たりのレポート数 約 30 ページ (日本語の場合は 18 ページ)
報告書の提出締切 (2015 年度後期): 2016 年 2 月 5 日(金)

When discussing research with their academic advisor, special research students should ask him/her to refer to p. 19 of the following manual for more details: 『指導教員・留学生担当者のための交換留学生受入れマニュアル』.

2. Guided Independent Study:

In their second semester of study at Nagoya University, NUPACE undergraduate and graduate students can opt to take advantage of the ‘Guided Independent Study (GIS)’ system. After consulting and obtaining permission from their academic advisors, students may, with the co-operation of their academic supervisor/a research supervisor, pursue independent research in their major field of study. This research work will be evaluated and credits awarded accordingly. The maximum number of credits awarded for GIS is set at eight, and a rough guide to the expected length of GIS reports and corresponding credits is as follows:

10 pages → 2 credits 20 pages → 4 credits
30 pages → 6 credits 40 pages → 8 credits

If written in Japanese, the approximate required length is as follows

6 pages → 2 credits 12 pages → 4 credits
18 pages → 6 credits 24 pages → 8 credits

Students who engage in ‘Guided Independent Study (GIS)’ are required to provide the NUPACE Office with the results of their research work at the end of the semester. GIS reports presented to the NUPACE Office must have the stamp of the student’s academic advisor/research supervisor on the title page.

GIS submission deadline for autumn 2015 semester: Friday, February 5, 2016

When discussing GIS with their academic advisor, students should ask him/her to refer to pp. 17~18 of the following manual for more details: 『指導教員・留学生担当者のための交換留学生受入れマニュアル』.

研究計画の相談をする際には、指導教員/副指導教員(研究指導教員)に『指導教員・留学生担当者のための交換留学生受入れマニュアル』の19ページを参照していただくよう伝えてください。

2. 個人勉学指導 (GIS)

特別聴講学生及び大学院特別聴講学生については、2 学期目以降、GIS(個人勉学指導)制度を活用することができます。指導教員/副指導教員(研究指導教員)の許可・協力のもと、専門に関する研究プロジェクトを実施することも可能です。研究成果は評価により規定単位が与えられます(最大8単位まで取得可能)。成果報告書のページ数(目安)とGIS単位数は次のとおりです。

10 ページ→2 単位 20 ページ→4 単位
30 ページ→6 単位 40 ページ→8 単位

(日本語の目安は次のとおり)

6 ページ→2 単位 18 ページ→6 単位
12 ページ→4 単位 24 ページ→8 単位

GIS(個人勉学指導)を行う学生は、各学期末に研究成果報告書をNUPACE オフィスへ提出しなければいけません。報告書の表紙には指導教員/副指導教員(研究指導教員)の捺印が必要です。

GIS の提出締切 (2015 年度後期): 2016 年 2 月 5 日(金)

GIS の相談をする場合には、指導教員に『指導教員・留学生担当者のための交換留学生受入れマニュアル』の17-18 ページを参照していただくよう伝えてください。

3. Students engaging in Clinical Practice (Medical Clerkships):

Students engaging in clinical practice (medical clerkship) at the School of Medicine may register for credits, but are exempt from the obligation to earn credits at Nagoya University; instead they are required to provide the NUPACE Office with a log report at the end of the semester. The log report must have the stamp of the student's academic advisor on the title page.

Approximate length of report: 6 pages (4 pages if written in Japanese)

Report submission deadline for autumn 2015 semester: Friday, February 5, 2016

3. 臨床実習 (医学臨床実習)

臨床実習(医学臨床研修)を行う医学部の学生は、授業履修による規定単位数を取得する代わりに、各学期末に実習報告書を NUPACE オフィスに提出しなければなりません。報告書の表紙には指導教員/副指導教員(研究指導教員)の捺印が必要です。なお、研究指導と併せて授業履修を希望する場合には、単位取得も可能です。

一学期当たりのレポート数 約 6 ページ (日本語の場合は 4 ページ)

報告書の提出締切 (2015 年度後期): 2016 年 2 月 5 日(金)

5. Grading System/成績について

Credit-seeking Students:

With the exception of 'Special Research Students', NUPACE students are required to register for a minimum of 15 credit hours per semester, or a total of 30 credit hours per academic year. Those students who fail to obtain the required number of credits shall not be presented with a 'Certificate of Completion' once they have concluded their term of exchange.

All NUPACE students will receive two academic transcripts, one of which will be sent directly to their home institutions. The transcripts will contain the names of courses studied, class contact hours, number of credits awarded, letter grades and scores out of one hundred. NUPACE students will earn two sets of grades in courses taken for credit: Grades based on Nagoya University's system and their equivalent on the ECTS (European Credit Transfer and Accumulation System) scale.

単位取得希望学生:

「特別研究学生」を除いて、すべての NUPACE 生は一学期に最低 15 単位以上、あるいは二学期間(1 年間)で 30 単位以上を取得しなければいけません。この履修単位の条件を満たせなかった場合、交換留学期間の終了時に「修了証 (Certificate of Completion)」が授与されません。

すべての NUPACE 生には成績証明書が二通発行され、そのうち一通は所属大学へ直接郵送されます。成績証明書には履修した授業の科目名、履修時間数、単位数、成績(ABC)、スコア(%)が表示されます。NUPACE 生は名古屋大学の評価方式によるものと、それを ECTS(ヨーロッパ単位互換制度)の尺度に合わせた評価の二種類の表記で成績を得ることになります。

Nagoya U. Grading System		ECTS Equivalent Scale
S (Excellent)	90~100	A (Excellent)
A (Very Good)	80~89	B (Very Good)
B (Good)	70~79	C (Good)
C (Satisfactory)	60~69	D (Satisfactory)
P (Pass)*	60~100	N/A
F (Fail)	0~59	F (Fail)
W (Withdrawal)**	N/A	N/A

(Nagoya University has not adopted the grades D, E and Fx, as employed by ECTS)

***P(Pass):** A very limited number of courses at Nagoya University are offered on a Pass/Fail only basis. Please note that students do not generally have the option of registering for courses on a Pass/Fail basis; Pass/Fail applies to designated courses.

****W(Withdrawal):** Students may withdraw from courses that they have registered for, and provided that the relevant procedures have been carried out, these courses shall be marked with a “W” on students’ academic transcripts. Please note that the deadline for completing withdrawal procedures is Friday, November 27, 2015. Students who drop out of classes without completing withdrawal procedures shall earn an “F” for courses that they have absented themselves from.

Necessary Procedures for Course Withdrawal:

1. Obtain a “Course Withdrawal Form” from the International Student Exchange Division (ISED), 1F, Graduate School of Development. The form is divisible, with sections for 1) the course instructor, 2) student, and 3) ISED.
2. After filling out all applicable items on the form, submit it to the relevant course instructor and receive his/her signature on sections 2) and 3) of the form. The course instructor should keep the section entitled “For Course Instructor”, and return the other two sections to the student.
3. In order to complete withdrawal procedures, submit the section entitled “For ISED” by the deadline stipulated above.

Important Notes:

1. There is no guarantee that course instructors will grant permission to withdraw from courses. Treatment accorded to this request will vary according to the nature of the course and academic policy of the instructor.
2. Credits will not be awarded for courses which have been withdrawn from. When applying to withdraw from a course, students should ensure that they still have the minimum credit-load for the purpose of earning a “Certificate of Completion”. Please note that courses can no longer be added after the course registration period.

***P(Pass):** 一部の授業科目で“Pass/Fail”による成績評価を採用しています。SABC 評価の授業科目を“Pass/Fail”評価に変更することはできません。

****履修取下げ制度:** 履修を取消するためには、所定の手続きが必要です。その場合、成績証明書上には“W”と表記されます。

履修取下げ申請締切:2015年11月27日(金)

履修取下げの手続きがなく受講を取りやめた場合、「欠席」と見なされ成績評価は“F”となります。

履修取り下げ申請手続き:

1. 学生交流課(国際開発研究棟1階)で「履修取下げ届」を受領してください。届出用紙は、1)担当教員控え 2)学生控え 3)学生交流課控えに分かれています。
2. 必要事項を記入後、すべての控えを授業担当教員に提出し、控え2)と3)にサインをもらってください。「担当教員控え」は授業担当教員へ提出してください。
3. 「学生交流課控え」を履修取下げ申請期限までに提出すれば、履修取り下げ手続きは完了です。

注意事項:

1. すべての授業科目において、必ずしも履修取下げが許可されるとは限りません。あくまで講義内容や授業担当教員の方針により異なります。
2. 履修を取下げた授業科目に単位は付与されません。履修取下げ申請をする前に、「修了証」が授与される規定単位数を満たしているか十分に確認してください。履修登録期間後は追加履修登録が不可能なので、注意してください。

3. Students responsible for paying tuition fees to Nagoya University should note that a tuition fee refund for courses withdrawn from cannot be made after payment to their Schools of affiliation. The deadline for the payment of tuition fees is Friday, October 30, 2015.
3. 名古屋大学に直接授業料を納める学生にあつては、いかなる理由があつても既に納入した授業料を返還することはできません。授業料納入後に履修を取消した場合には、授業料は返還されないため、注意してください。
授業料の支払期限:2015年10月30日(金)

Japanese Language Programmes

Co-ordinator: ISHIZAKI Toshiko
Place: Int'l Education & Exchange Centre <IEEC>. Refer to class schedule for rooms.

Nagoya University offers two comprehensive Japanese language programmes to all international students, researchers and faculty members affiliated to this University: 1) *Standard Course in Japanese* and, 2) *Intensive Course in Japanese*. In the *Standard Course*, classes are divided into seven levels ranging from Elementary Japanese I to Advanced Japanese, and students attend one class a day for up to five days a week. The *Intensive Course* has six levels from Elementary Japanese I to Intermediate Japanese II with students attending two classes a day for up to five days a week. The programme offers flexibility and choice, and places priority on meeting the various academic needs of students. Please note that students with previous Japanese language experience will be required to sit a placement test and undergo an interview to determine their Japanese language level.

In addition to the above, NUPACE students are also welcome to participate in Nagoya University's *Kanji*, Business Japanese, and Online Japanese classes to further hone their Japanese language skills

1. Description of Levels

1. Elementary Japanese I

This course is designed for students who have little or no knowledge of Japanese. It aims to develop the students' working knowledge of Japanese to the level where they can function effectively in everyday life. Emphasis is placed on improving oral skills, although students will also be required to master the fundamentals of elementary grammar and a limited number of *kanji* (Chinese characters). The written content of the course (150 *kanji*, vocabulary of 800 words) is approximately equivalent to level four of the Japanese Language Proficiency Test.

Textbook:

A Course in Modern Japanese (Revised Edition) Vol. 1, compiled and edited by the Japanese Language Education Research Group, Nagoya University (2002)

2. Elementary Japanese II

This course is designed for those students who have had approximately 150 hours of Japanese instruction at university level or who have completed *Elementary Japanese I* at Nagoya University. The main objective is to enable students to master the fundamentals of pre-intermediate grammar patterns and to acquire a working knowledge of Japanese to help them function smoothly in Japanese society. Upon completion of the course students should have mastered a total of 300 *kanji* and possess a vocabulary of 1,800 words (approximately equivalent to level three of the Japanese Language Proficiency Test).

Textbook:

A Course in Modern Japanese (Revised Edition) Vol. 2, compiled and edited by the Japanese Language Education Research Group, Nagoya University (2002)

3. Pre-intermediate Japanese

This course is designed for those students who have had approximately 300 hours of Japanese instruction at university level or who have completed *Elementary Japanese II* at Nagoya University. The main objective is to enable students to consolidate their knowledge of basic Japanese grammar, vocabulary and *kanji*, so that they are better prepared to proceed to intermediate Japanese. Emphasis is placed on applying knowledge of Japanese in the four skill areas. Students should have mastered a total of 400 *kanji* and 2,600 words by the end of the course.

Textbook:

Courses in Japanese & Other Languages

Materials compiled and edited by ILC, Nagoya University

4. Intermediate Japanese I

This course is designed for those students who have had approximately 400 hours of Japanese instruction at university level or who have completed *Pre-intermediate Japanese* at Nagoya University. The course aims to enable students to master grammatical patterns and expressions found at the beginning to mid-intermediate level and to develop proficiency in the four skill areas. Upon completion of the course, students should have mastered a total of 550 *kanji* and possess a vocabulary of 3,800 words.

Textbook:

「名古屋大学日本語コース中級I」compiled and edited by the Japanese Language Education Research Group, Nagoya University (2012)

5. Intermediate Japanese II

Designed for students who have received approximately 500 hours of Japanese instruction at university level, or who have completed *Intermediate Japanese I* at Nagoya University. Although emphasis is placed on developing a high command of oral skills for the purpose of communication in academic and non-academic situations in Japan, students are also required to improve their competency in listening, reading and writing. Upon completion of the course, students should have mastered a total of 700 *kanji* and have acquired a vocabulary of approximately 5,000 words.

Textbook:

「名古屋大学日本語コース中級II」compiled and edited by the Japanese Language Education Research Group, Nagoya University (2012)

6. Pre-advanced Japanese

This course is designed for those students who have had approximately 600 hours of Japanese instruction at university level or who have completed *Intermediate Japanese II* at Nagoya University. The course aims to enable students to increase their vocabulary to approximately 6,000 words and 900 *kanji*, and to improve the four language skills to the equivalent of level two of the Japanese Language Proficiency Test.

Textbook:

Materials compiled and edited by ILC, Nagoya University.

7. Advanced Japanese

Designed for students who have received approximately 750 hours of Japanese instruction at university level or who have completed *Pre-advanced Japanese* at Nagoya University. Students are required to increase their vocabulary to 7,500 words and 1,100 *kanji*. Upon completion of the course, students should be able to join general education classes for Japanese students with minimum assistance from a Japanese tutor.

Textbook:

Materials compiled and edited by ILC, Nagoya University.

2. Course Structure

I. Standard Course in Japanese

1. Elementary Japanese (5 credits; 10 hours per week x 14 weeks)

Two comprehensive classes, Elementary Japanese I and Elementary Japanese II, encompassing all four skill areas, are offered at this level.

2. Pre-intermediate to Advanced Japanese (1 credit per class <2 hours>, maximum five classes <10 hours> per week x 14 weeks)

At these higher levels, students are encouraged to devise their own Japanese language curriculum according to individual needs. Twenty-five classes covering five levels are offered, which are divided amongst the skill areas of conversation (C), reading (R), listening (L), grammar and discourse (G), and

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writing (W). Students may opt to take between one and five of these classes at a level determined by the result of their placement test.

Standard Japanese Course Structure

Japanese Level	Class Name					Textbook
Elementary I	SJ101					<i>A Course in Modern Japanese Vol. 1</i>
Elementary II	SJ102					<i>A Course in Modern Japanese Vol. 2</i>
Pre-intermediate	SJ200 (C1 & C2)	SJ200(R)	SJ200(L)	SJ200(G)	To Be Announced	
Intermediate I	SJ201 (C1 & C2)	SJ201(R)	SJ201(L)	SJ201(G)	『名古屋大学日本語コース中級I』	
Intermediate II	SJ202 (C1 & C2)	SJ202(R)	SJ202(L)	SJ202(G)	『名古屋大学日本語コース中級II』	
Pre-Advanced	SJ300(C1)	SJ300(C2)	SJ300(R)	SJ300(L)	SJ300(G)	To Be Announced
Advanced	SJ301(C)	SJ301(W1)	SJ301(W2)	SJ301(R)	SJ301(L)	To Be Announced

- NB.** 1. Students wishing to attend conversation classes at the pre-intermediate or intermediate levels (SJ200/SJ201/SJ202) must register for both C1 & C2
 2. Students may not take the same skill class at two different levels.

II. Intensive Course in Japanese

1. Elementary to Pre-intermediate Japanese (10 credits; 20 hours per week x 14 weeks)

Two comprehensive classes, Elementary Japanese I (covering elementary levels I and II) and Elementary Japanese II (covering the elementary II and pre-intermediate levels), are offered. They encompass all four skill areas.

2. Pre-intermediate to Intermediate Japanese II (2 credits per class <4 hours>, maximum five classes <20 hours> per week x 14 weeks)

At these higher levels, students are encouraged to devise their own Japanese language curriculum according to individual needs. Ten classes covering three levels are offered, which are divided amongst the skill areas of conversation (C), reading (R), listening (L), and grammar and discourse (G). Students may opt to take between one and five of these classes at a level determined by the result of their placement test.

Intensive Japanese Course Structure (Elementary I to Pre-intermediate)

Japanese Level	Class Name		Textbook
Elementary I	IJ111		<i>A Course in Modern Japanese Vol. 1</i>
Elementary II			<i>A Course in Modern Japanese Vol. 2</i>
Pre-intermediate		IJ112	To Be Announced

Intensive Japanese Course Structure (Pre-intermediate to Intermediate II)

Japanese Level	Class Name/Skill								Textbook
	Conversation 1	Conversation 2	Reading		Listening		Grammar/Discourse		
Pre-intermediate		IJ211 (C1 & C2)		IJ211 (R)		IJ211 (L)		IJ211 (G)	To Be Announced
Intermediate I	IJ212 (C1)		IJ212 (C2)		IJ212 (R)		IJ212 (L)		『名古屋大学日本語コース中級I』
Intermediate II									『名古屋大学日本語コース中級II』

- NB.** Students wishing to attend conversation classes at the pre-intermediate~intermediate I level (IJ211) must register for both C1 and C2.

3. 漢字<Kanji>1000

Courses in Japanese & Other Languages

This class is aimed at students who have mastered approximately 300 *kanji*, and concentrates on the 1000 *kanji* covered at levels N3~N2 of the Japanese Language Proficiency Test.

漢字300字程度を学習した学生を対象に、日本語能力試験N3-N2程度の漢字1000字を目標に学習する。

Textbook:

『漢字マスター Vol. 3 2級漢字1000』

4. Academic Japanese (Listening and Presentation) I <G30>

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 using presentation software while learning pertinent vocabulary and expressions. Class materials are designed for lower-level intermediary students.

Course material: *Saisbo no ippo kara hajimeru nibongogakushusha to nibonjingakusei no tame no akademikeku prezenteshon nyumon*, Hituzi Shobo KK

Assessment criteria: Attendance: 30%, participation: 30%, midterm: 20%, final: 20%

5. Academic Japanese (Reading and Writing) I <G30>

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. Class materials are designed for lower-level intermediary students.

Course material: 『大学・大学院 留学生の日本語①読解編』アルク
『大学・大学院 留学生の日本語②作文編』アルク

Assessment criteria: Attendance: 30%, participation: 30%, midterm: 20%, final: 20%

6. Academic Japanese (Listening and Presentation) III <G30>

In this course, students will practice listening to longer audio segments (in the form of lectures, TV programs, presentations, and the like), and formulate their opinion on these. The course also aims to teach students how to respond appropriately (agree, disagree) to opinions presented by fellow students. Class materials are designed for advanced students.

Course material: 『聴解・発表ワークブック —アカデミック・スキルを身につける』犬飼康弘著 スリーエーネットワーク
Chokai Happyo Workbook – Academic skill wo minitsukeru, 3A Corporation

Assessment criteria: Attendance: 30%, participation: 30%, midterm: 20%, final: 20%

7. Academic Japanese (Reading and Writing) III <G30>

In this course, students will acquire the skills to read reports in specialized fields and academic articles as well as write reports or dissertations related to their own research focus. The course aims to develop skills to comprehend the relationship between paragraphs, and comprehend and write longer coherent texts. Class materials are designed for higher-level intermediate to lower-level advanced students.

Course material: 『大学・大学院 留学生の日本語③論文読解編』アルク
『大学・大学院 留学生の日本語④論文作成編』アルク

Assessment criteria: Attendance: 30%, participation: 30%, midterm: 20%, final: 20%

8. Academic Japanese (Reading and Writing) V (漢字<Kanji>2000) <G30>

漢字1000字程度を学習した学生を対象に、日本語能力試験N2の上からN1程度の漢字約2000字およびその語彙を学習する。

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

Evaluation:

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

9. Business Japanese I <G30>

In this course, students will learn business Japanese starting from the fundamentals. Based on various themes, students will develop the communication styles and conversational ability required in Japanese business settings. The course also covers fundamental business expressions. The course is designed for upper-level beginner to lower-level intermediate students.

Course material: 『新装版 ビジネスのための日本語 初中級』スリーエーネットワーク

Assessment criteria: Attendance: 30%, participation: 30%, midterm: 20%, final: 20%

10. Business Japanese III <G30>

In this course, students will learn Japanese expressions required for business, as well as cultural elements inherent in Japanese business practices. Students will develop business manners and expressions by watching applicable footage and engaging in other activities that approximate real business situations. They will also read and write short business texts. The course is designed for upper-level intermediate to lower-level advanced students.

Course material: 『新装版 商談のための日本語 中級』米田隆介・藤井和子・重野美枝・池田広子共著スリーエーネットワーク

Assessment criteria: Attendance: 30%, participation: 30%, midterm: 20%, final: 20%

入門講義 <J> (Introductory Courses taught in Japanese)

NB. The following courses are taught in Japanese and require at least level N2 of the Japanese Language Proficiency Test (JLPT) or equivalent.

1. 国際関係論 I (Global Society I)

Co-ordinator: KIM Kyungmook

Class: Mondays, 13:00~14:30

Place: International Education & Exchange Centre, Rm. 207E

人間が暮らすどの共同体や社会においても争いは絶えない。そのような争いをなくすことは可能なのだろうか。紛争と和解を国際政治学的な視点から扱う。

Topics to be covered:

戦争の条件、平和の条件。戦争がなぜ終わらないのか。そして、どうすれば平和が実現するのかについて国際関係論、平和研究の視点から考える。

Topics to be covered:

1 戦争が必要なとき

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- 2 覇権国と国際関係
- 3 デモクラシーの国際政治
- 4 大国の凋落・小国の台頭
- 5 領土と国際政治
- 6 過去が現在を拘束する
- 7 ナショナリズムは危険思想か
- 8 平和の条件
- 9 平和の人類学
- 10 平和をつくる
- 11 平和を伝える
- 12 平和を問い直す
- 13 事例分析
- 14 事例分析
- 15 事例分析とまとめ

Reference Materials:

藤原帰一『戦争の条件』集英社新書、2013年。

Evaluation:

出席、小レポート、期末レポートなど

2. 日本文化論 I (Introduction to Japanese Society & Culture I)

Co-ordinator: UKIBA Masachika
Class: Thursdays, 13:00~14:30
Place: International Education & Exchange Centre, Rm. 207W

まず、はっきり言いますが、茶道、歌舞伎、武士道などいわゆる「日本文化」(つまり、日本にしか無いもの)はありません。「日本文化」という言葉は「日本人の生活様式」という広い意味でとらえてください。「文化」という言葉は私はある集団が世代を越えて伝えていく<癖(くせ)>のようなものだと考えています。

この講義では、家族、学校という現代の日本社会を理解するうえで重要な二つのトピックを取り上げ、そこに見られる日本人の<癖(くせ)>を考えていきます。また、時間に余裕があれば、皆さんがあまり目にする事が出来ない田舎の生活についても、紹介していきたいと思えます。

この講義を通して、皆さんが日本や日本人に対するイメージを少しでも広げることが出来ればと考えています。

Topics to be covered:

1. オリエンテーション:「文化」という言葉をめぐって
2. 家族は会社、学校を両立するのか:映画『毎日の夏休み』に見る新しい家族像
3. 結婚しても入籍できない!?:夫婦別姓と国際結婚(戸籍制度と日本社会)
4. 学校に行かない子どもたち:いじめ、不登校、フリースクールなど
5. 働かなくちゃだめですか:フリーター、パラサイト・シングルなど
6. 田舎に行ってみよう:貴方の知らない日本の素顔

Reference Materials:

ハンドアウト随時配布

Evaluation:

出席と授業態度 40%
レポート 60%

3. 日本語学・日本語教育学 I (Introduction to Japanese Linguistics I)

Courses in Japanese & Other Languages

Co-ordinator: LEE Tack Ung
Class: Mondays, 14:45~16:15
Place: International Education & Exchange Centre, Rm. 207E

前半の講義では、日本教育で主に問題となる文法項目を取り上げ、整理・検討することによって、基礎的な文法知識を身につけることを目指す。毎回、簡単な課題を取り上げ、みんなで考える時間を設ける。そのため、受講者の積極的な参加が要求される。

後半の講義では、日本語教育の基礎知識を身につけることを目標とする。日本語教育の現状を概観し、コース・デザイン、教材、誤用分析などを紹介する予定である。

この講義で学んだことがこれから日本語教育者(あるいは言語学者)を目指す人に少しでも役に立てることを願っている。

Topics to be covered:

1. 日本語学(前半)
 - (1) 品詞
 - (2) 活用
 - (3) 格助詞
 - (4) ヴォイス
 - (5) 人称
2. 日本語教育学(後半)
 - (1) コース・デザインと教材の紹介
 - (2) 誤用分析

Reference Materials:

ハンドアウト配布

Evaluation:

- | | |
|------------------|-----|
| 1. 授業への参加度(授業態度) | 30% |
| 2. テスト | 70% |

4. 言語学入門 I (Introduction to Linguistics I)

Co-ordinator: MOMIYAMA Yosuke
Class: Fridays, 13:00~14:30
Place: International Education & Exchange Centre, Rm. 201

Focusing on Japanese, this lecture attempts to provide a basic knowledge of linguistics, including methodology. It focuses on selected fundamental characteristics of human language, semantics (linguistic meaning), sociolinguistics, and linguistic typology.

Topics to be covered:

1. 言語学の基本的な考え方: 日常見られる言葉に対する見方との違い
2. 人間の言葉の一般的特徴: 他の動物のコミュニケーションの手段と比較して
3. 言葉の意味: 認知意味論(cognitive linguistics)を中心に
4. 言葉と社会: 社会方言(social dialects)の諸相
5. 世界の言語と日本語: 言語類型論(linguistic typology)における日本語の位置づけ

Textbook:

ハンドアウトを配布する

Reference Materials:

町田健・榎山洋介『よくわかる言語学入門』バベル・プレス
町田健・榎山洋介他『言語学大問題集 163』大修館書店
榎山洋介『認知意味論のしくみ』研究社
(授業の際に、より詳しい参考文献を紹介する)

Courses in Japanese & Other Languages

Evaluation:

1. 出席
2. 授業への貢献度・積極性
3. レポートまたはテスト

5. 日本文学 I (Japanese Literature I)

Co-ordinator: TOKUHIRO Yasuyo
Class: Thursdays, 14:45~16:15
Place: International Education & Exchange Centre, Rm. 207E

日本の詩歌について時代を追って鑑賞します。日本文学 I では、奈良時代から江戸時代までの和歌、俳句などをとりあげます。

Topics to be covered:

1. 日本の詩歌について
 2. ふじのたかねに
 3. あかねさす
 4. 生きとし生けるもの
 5. からころも
 6. 唯見る長江の天際に流るるを
 7. はなももみじも
 8. 願はくは花の下にて
 9. せをはやみ
 10. むべ山風を嵐と
 11. ほのかにゆめに
 12. 星崎の闇を見よとや
 13. 月は東に日は西に
 14. テスト(時間内に作文)
- ・『万葉集』1 長歌、短歌
 - ・『万葉集』2 雑歌、相聞、挽歌
 - ・『古今和歌集』和歌の修辞 1
 - ・『伊勢物語』歌物語
 - ・唐詩(李白、杜甫他)
 - ・『新古今和歌集』和歌における美意識
 - ・他の歌集から
 - ・『百人一首』
 - ・歌会 和歌の修辞 2
 - ・歌謡、連歌
 - ・俳句 1 芭蕉
 - ・俳句 2 蕪村、一茶他

Reference Materials:

ハンドアウト随時配布

Evaluation:

出席 20%
授業内提出物 60%
テスト 20%

Graduate School of Languages & Cultures (GSLC)

The Graduate School of Languages and Cultures offers a variety of language courses (Chinese, Dutch, English, French, German, Italian, Korean, Russian, Portuguese, Spanish), which are, for the most part, open to NUPACE students. Students who are interested in taking any of these courses can enquire about the class content and time-table at the Office of the Graduate School of Languages and Cultures, NUPACE Student Helpdesk (IEEC Lobby), or NUPACE Office.

Course Registration – English

1. Continuing Students

Registration Period:

Tue, Sep 15~Fri, Sep 18 at 09:00~17:00

Class Placement:

Notice-board <university-wide courses>, 1F, Liberal Arts & Sciences – Main Bldg (School of Informatics & Sciences) as well as Graduate School of Languages & Cultures (GSLC) counter, Office, 1F, IRB Humanities & Social Sciences, from 9:00 on Fri, Sep 25.

Courses in Japanese & Other Languages

2. Newly-Arrived Students Only

- 1) On **Thu, Oct 1**, check the relevant announcement 「とくべつえいごせみならあきくらすいちらん特別英語セミナー空きクラス一覧」 on the “university-wide courses” (ぜんがくむけじゅぎょう全学向け授業) notice-board of the Liberal Arts & Sciences – Main Bldg. (School of Informatics & Sciences) (1F) for any English course vacancies. Please note that a class of 20 students is considered full, and that you cannot apply for it.
- 2) Students interested in taking a course, should obtain a yellow course registration form at the Graduate School of Languages & Cultures (GSLC) counter (Office, 1F, IRB Humanities & Social Sciences).
- 3) After filling out the form, submit it to the same counter during the following period: Thu, Oct 1~Tue, Oct 6 (09:00~12:00; 13:00~17:00), making sure also to take along your original TOEFL/TOEIC/IELTS score-sheet. The minimum requirement is TOEFL 527 (iBT 71)/TOEIC 663/IELTS 5.5.
- 4) Class allocation is based upon the course registration form data submitted by students. Due to oversubscription of certain classes, not all students can be guaranteed a place.
- 5) Class placement announcement: Wed, Oct 7 at from 09:00 on the “university-wide courses” notice-board, 1F, Liberal Arts & Sciences – Main Bldg (School of Informatics & Sciences) as well as Graduate School of Languages & Cultures (GSLC) counter, Office, 1F, IRB Humanities & Social Sciences.

Course Registration – Other Languages

Pick up a blue course registration card at the Graduate School of Languages & Cultures (GSLC) counter (Office, 1F, IRB Humanities & Social Sciences). After filling the form in, and writing NUPACE in capital letters on it, submit one part of the divisible form to the relevant course instructor on the first day of class. If you are deemed eligible to participate in the course, insert another section of the registration form, labelled ‘For Office Use’, into the “course application box” at the GSLC counter between Thu, Oct 1~Tue, Oct 20 (9:00~17:00).

NB. English language classes commence on Thu, Oct 1, 2015 (Wed, Oct 8 for newly-arrived students). Classes in languages other than English commence on Thu, Oct 1. Students who miss the first class of any language course are rendered ineligible to enrol.

Institute of Liberal Arts and Sciences (ILAS)

1. Personal Transformation

Co-ordinator: Go YOSHIDA (go.yoshida@d.mbox.nagoya-u.ac.jp)
Class: Tuesdays, 10:30~12:00
Place: Liberal Arts and Sciences – Main Building, 2F, Room S21
Maximum Capacity 1~2 NUPACE Students

NB: This course may be open to undergraduates. Contact the course instructor if you are interested.

Wherever we are in life, whether going over a crest or through a trough, there are issues in our lives that we could improve if not address. This class will help students get rid of some of the noise, weights, and distractions in your lives—procrastination, blame, resentment grudges and bitterness, meaninglessness, and/or your unhealthy habits—that are holding you back from the person you desire to be. Through initiative, reflection, sharing, learning, and action, students in this class will be challenged to be honest with themselves, transparent with others, open to feedback, and with a thirst for betterment for sustainable change—transformation—to take shape. This class is for the individual who is highly motivated to change him/herself, to be better prepared for the next stage after university, as a responsible adult in society.

My classes go beyond the ‘academics’ and are designed to develop life skills (いきる力)— skills needed in life regardless of major, profession, or aspiration— by stimulating both mind and heart. This takes shape in the form of a three-way approach to teaching— through class time, assignments, and individual meetings. Through these classes, engaged students will be better prepared for life after university, through the transformation of the mind.

Desired Learning Outcomes:

1. Self-Awareness
2. Self-Discipline
3. Courage
4. Leadership

Topics to be covered:

1. Mental Training
2. Decision Making
3. Blame
4. Courage
5. Forgiveness
6. Personal Finance
7. Time Management
8. Physical Management
9. Relational Management
10. Life Purpose

References:

Brown, Brene (2010). *The Gifts of Imperfection: Let Go of Who You Think You're Supposed to Be and Embrace Who You Are*. Hazeldon.
Gordon, Jon (2009). *Training Camp: What the Best Do Better Than Everyone Else*. Wiley.
Note book.

Evaluation:

Assignments 25%
Mini Tests 25%
Final Project 50%

International Education and Exchange Center (IEEC)

1. A Multicultural Approach to Contemporary Issues

Co-ordinator: Michelle HENAULT-MORRONE
Class: Fridays, 16:30~18:00
Place: International Education & Exchange Centre, Room 207W

This course begins with an overview of Japanese education with particular emphasis on social development influencing education from the post-war period to the present time. It is hoped that an examination of certain patterns that occur in Japanese society (early education, etc.) will shed light on an environment where the dynamics of “tradition” and “change” coexist, upsetting yet renewing, the current social milieu.

Topics to be covered:

Assigned readings relating to the discussion topics are to be read prior to class. Movies/documentaries provide supplemental materials in order to enrich the student's understanding of the subject of analysis. Topics to be discussed include:

1. Introduction
2. Culture and Society
3. *Amae*
4. The Japanese Self
5. Preschool – Preparation for Life
6. Preschool in Three Cultures
7. Elementary education – Initiation Due
8. Returnees, Dropouts and Bullies
9. Safety Concerns
10. Gender Issues
11. Presentation Preparation
12. Presentation Preparation
13. Presentation Preparation (outside class)
14. Presentations
15. Presentations and Final Individual Reports

Reference Materials:

Copies prepared by instructor. Check for reserved readings.

Evaluation:

Participation, in-class assignments, and attendance: 30%
Final Assignment: 35%
Final Group Presentation: 35%

2. Teaching Practice in the Japanese Community

Co-ordinator: Claudia ISHIKAWA (k46189a@cc.nagoya-u.ac.jp)
Class: Teaching Practice Sessions: 16:30~18:00 once per week (Wednesdays) from November 4, 2015 to January 13, 2016 (8 times). Each class will consist of 60 minutes of teaching time, and 30 minutes of interaction with the children.
Place: Teaching Practice Sessions: Nagoya University Poppins After-School
Maximum Capacity: 6 Students

Prerequisites: Native English-speaker or TOEFL score of 600 PBT/100 iBT, or equivalent.

Students interested in registering for this programme should contact Claudia Ishikawa at

Courses in the Student's Major

k46189a@cc.nagoya-u.ac.jp or in IEEC Rm. 205 by Monday, October 5, 2015. Admission to the course is generally on a first-come-first-served basis.

This course involves teaching English to, and developing a rapport/playing with approximately fifteen elementary school-aged children (aged six to twelve) at Nagoya University's childcare centre, "Poppins-After-School". Students will be required to devise an English-language curriculum (which may include the teaching of basic theme-oriented vocabulary using visual aids; playing educational games and simple sports, etc.), and then, in accordance with the curriculum, teach the pupils rudimentary-level English. Those students, who at the end of the semester submit a report describing their teaching practice experience, will receive 2 credits.

A brief orientation will be held for participants at 16:30 on Wednesday, October 7 in IEEC Room 207W, and a site-visit to Poppins-After-School will be arranged before the teaching sessions commence.

Evaluation:

1. English-Language Lesson Plan: 20% (2 sides A4-sized paper + Poppins prescribed lesson plan form; submission deadline: Wednesday, October 21, 2015.)
2. Final Report: 80% (4~6 sides of A4-sized paper; submission deadline: Wednesday, January 20, 2016.)

School of Agricultural Sciences

Agricultural Science

Co-ordinator: INOUE Naoko
Class: Wednesdays, 16:30~18:00
Place: School of Agricultural Sciences, Lecture Room 6

We are beset by an array of global concerns such as the depletion of food and energy resources, poverty and health problems, and the destruction of the natural- and living environment. This course, by taking as its base recent developments in the field of life sciences, aims to propose possible solutions to the above, through the analysis of biological production, symbiosis, and frontier technology in the field of bioscience.

Topics to be covered:

- | | |
|-------------------------------------|--|
| 1. Introduction | (INOUE Naoko) |
| 2. Ecology of irrigated rice fields | (MURASE Jun) |
| 3. International cooperation | (ITO Kasumi) |
| 4. Basic reproductive endocrinology | (TSUKAMURA Hiroko, INOUE Naoko) |
| 5. Molecular insect sciences | (MINAKUCHI Chieka) |
| 6. Genetically modified crops | (TANIGUCHI Mitsutaka/ Joyce CARTAGENA) |
| 7. Enzyme engineering | (IWASAKI Yugo) |
| 8. Basic Crop Science | (YAMAUCHI Akira) |
| 9. Group discussion | (INOUE Naoko) |
| 10. Remarks | (INOUE Naoko) |

Evaluation:

Evaluation is based on in-class participation and assignments

School of Engineering

1. Academic, Scientific, and Technical English

Co-ordinator: Laurence DRYDEN (dryden51@me.com)

Courses in the Student's Major

Class: Fridays, 14:45~16:15 (seven sessions in total, usually every other week)
Place: School of Engineering Building 1, 2F, Room 121

NB. This class commences on Friday, October 9.

This series of special lectures, conducted entirely in English, provides guided practice in written and spoken English in academic, scientific, and technical contexts. Lectures include illustrated presentations and activities for students to apply their learning. The series is open to native speakers and non-native speakers of English.

Topics to be covered:

1. Course Overview: Major themes: why writing & speaking skills matter; self-introductions, Q&A
2. Grammar & Usage: Noun phrases and articles; verb phrases and the passive voice
3. Style: Parallelism; nominalization; differences between formal and informal word choice
4. Structure: Sentences and paragraphs; editing for readability
5. Audience & Purpose in Writing: The language of academic and scientific papers
6. Audience & Purpose in Speaking: Making presentations in seminars and conferences
7. Sayonara: CVs, job applications, and job satisfaction

Reference Materials:

Students receive all printed materials for each lecture from the instructor. They also receive extensive annotated bibliographies of resources for academic, scientific, and technical English.

Evaluation:

Attendance and participation: Students who attend five or more lectures and participate earnestly in activities receive one credit. More detailed information will be given at the first lecture.

2. Civil Engineering and Policies for Developing Countries I

Co-ordinator: HAYASHI Kiichiro (maruhaya@esi.nagoya-u.ac.jp)
Class: Wednesdays, 13:00~16:15
Place: School of Engineering, Building 9, 1F, Room 911

NB. This course is only open to students specialising in civil engineering. An orientation, at which a detailed course schedule will be distributed, is to be held on Wednesday, Oct 7, 2015

The objective of this course is to study various issues, including sustainable development, environmental management, and international co-operation to acquire a fundamental knowledge of civil engineering in developing countries.

Topics to be covered:

1. The concept of sustainable development
2. Environment and resource issues in developing countries
3. International environmental management I (multilateral environmental agreements)
4. International environmental management II (international organisations)
5. International co-operation

Reference Materials:

To be distributed in class

Evaluation:

Students will be evaluated on attendance and written reports after each lecture.

3. Introduction to Civil Engineering & Architecture

Co-ordinator: MIZUTANI Norimi (mizutani@civil.nagoya-u.ac.jp)
Class: Fridays, 13:00~16:15 (Lessons will be held two to three times a month)

Courses in the Student's Major

Place: School of Engineering, Building 8, Room 8-102

The objectives of this course are (1) to establish scenarios for certain social infrastructure projects, and thereby introduce relevant civil engineering theories and construction technology, as well as conduct site-visits; (2) to survey, through technical site visits, various aspects of urban and architectural studies, including building material experiments, energy conservation, and the recent development of regional disaster mitigation activities.

Topics to be covered:

- Oct 2 Orientation (N.Mizutani)
Oct 30 Lecture & Site-visit 1: Architecture and culture – Nagoya Castle Hommaru Place
(H. Shimizu)
Nov 6 Lecture & Site-visit 2: Architecture and culture – Nagakute Culture Center (H. Shimizu)
Nov 13 Lecture 1: Social infrastructure and civil engineering (1)
(Y. Matsui <Central Nippon Expressway Co., Ltd>)
Nov 20 Site-visit 3: Construction of new expressway (Central Nippon Expressway Co., Ltd)
Nov 27 Site-visit 4: Highway Traffic Control Center and Highway
(Central Nippon Expressway Co., Ltd)
Dec 4 Lecture and Site-visit 5: Nagoya University Disaster Mitigation & Management Office
(J. Tobita)
Dec 18 Lecture 2: Social infrastructure and civil engineering (2)
(Y. Matsui <Central Nippon Expressway Co., Ltd>)

Evaluation:

Students will be evaluated on attendance and written reports.

4. Overview of Advanced Electrical, Electronic & Information Engineering

Co-ordinator: ISHIKAWA Yoshiharu (ishikawa@is.nagoya-u.ac.jp)
Class: Tuesdays, 13:00~14:30, †13:00~15:30, *13:00~17:15
Place: School of Engineering, Building 3, Room 342

This course comprises lectures and visits to technical plants in the Tokai area. In the lectures, current topics in advanced electrical, electronic and information engineering will be taught. The plant visits introduce students to advanced practices in vehicular, electronic power, and communication technologies.

Topics to be covered:

- Oct. 6‡ Course Overview / Automatic Analysis of Human Activity (Jien KATO: Nagoya University)
Oct. 13* Advanced Technologies at E-commerce Service
(Yoichi YOSHIMOTO and Yu HIRATE: Rakuten Institute of Technology)
Oct. 20* Spoken Language Processing for Online Learning Systems
(Go KAWAI: Hokkaido University)
Oct. 27* Introduction to Multiagent Systems and Collective Intelligence
(Takayuki ITO: Nagoya Institute of Technology)
Nov. 10‡ Introduction to the Super Alloy for the Jet Engine Turbine (1)
(Yoshiharu ICHIKAWA: Tateyama Machine Co., Ltd.)
Nov. 17‡ Introduction to the Super Alloy for the Jet Engine Turbine (2)
(Yoshiharu ICHIKAWA: Tateyama Machine Co., Ltd.)
Jan. 12* Introduction to Pattern Recognition and Media Information Processing
(Simon CLIPPINGDALE: NHK Science & Technology Research Laboratory)

Evaluation:

Written reports after each lecture and plant visit.

Courses in the Student's Major

5. Science & Technology in Japan

Co-ordinator: ZENG Gang (sogo@ertl.jp)
Class: Wednesdays, 13:00~14:30
Place: School of Engineering, Bldg. 1, Room 131

This course introduces the history, the current state and future prospects of R&D (research and development) in various sectors related to the field of engineering in Japan. It consists of “omnibus-style” lectures, all provided in English.

Topics to be covered:

1. Innovative factors of technologies in Japan (NISHIYAMA Kiyohisa)
 - These lectures introduce participants to the concept of 40 innovation principles. Some Japanese technologies are broken down into a combination of the principles as examples.
 - Students are asked to analyse a technology of interest in Japan, and should be able to grasp the concepts of any technological innovations after completing these lectures.
2. Science, Technology and Innovations in Disaster Risk Reduction (Emanuel LELEITO)
 - These lectures give an overview of the Scientific and Technology Innovations that have contributed Japan's leading role in Disaster Risk Reduction (DRR). Building on the information and knowledge gained in topic 1 and 2, students will have a chance to sharpen their innovative skills through discussions and presentation of novel ideas that contribute to DRR.
3. Science, Technology and Innovations in Embedded Computing Systems (ZENG Gang)
 - These lectures give an overview of the embedded computing systems related technologies in Japan. In particular, the latest innovations on the low-energy and automotive applications will be introduced.
 - Students are asked to participate in group discussions to share their ideas and thoughts about energy conservation and future automobiles.

Textbook:

Lecture materials will be distributed during at each lecture.

References:

Michael Barr and Anthony Massa, *Programming Embedded Systems, Second Edition*, O'Reilly Media, 2006.
Henkel, Jeorg and Sri Parameswaran, *Designing Embedded Processors: A Low Power Perspective*, Springer, 2007.
Disaster Management in Japan, Cabinet Office, Government of Japan (available online)
<http://www.bousai.go.jp/1info/pdf/saigaipanf.pdf>
Mohamed Gad-el-Hak (ed.), *Large-Scale Disasters: Prediction, Control, and Mitigation*, Cambridge University Press (2008/6/23), ISBN-10: 0521872936.

Evaluation:

Attendance	30%
One report per lecture:	40%
Final presentation:	30%

Graduate School of Environmental Studies

1. Climate Change Policies

Co-ordinator: SUGIYAMA Noriko (n.sugiyama@nagoya-u.ac.jp)
Class: Mondays, 13:00~14:30
Place: Graduate School of Environmental Studies, Lecture Room 2

Courses in the Student's Major

The objective of the course is to provide students with basic facts and knowledge on policy measures pertaining to climate change. Distinguished external lecturers will give lectures, in addition to lectures by the course coordinator. The basic facts that the students should know are contents of the United Nations Framework Convention on Climate Change and the Kyoto Protocol. Furthermore, other related matters such as climate change and cities, and energy policy will be explained.

This course has a unique style. The course looks forward to the 21st Conference of the Parties (COP21) to the United Nations Framework Convention on Climate Change (UNFCCC) and will simulate the conference negotiations. All students are required to participate in a model UNFCCC COP21, assuming hypothetical roles of delegation parties, and make presentations on the parties' policies. Some lectures will be scheduled irregularly. Hence, kindly be advised to attend the first lecture/orientation.

Topics to be covered:

1. Introduction: Plan of the course
2. Science of Climate Change
3. History of Climate Policy
4. Climate Agreements
5. Climate Policy of Japan
6. Presentation by students and discussion 1
7. Presentation by students and discussion 2
8. Presentation by students and discussion 3
9. Presentation by students and discussion 4
10. Renewable Energy Policy
11. International Climate negotiation
12. Model UNFCCC COP21 negotiation 1
13. Model UNFCCC COP21 negotiation 2
14. Model UNFCCC COP21 negotiation 3
15. Model UNFCCC COP21 negotiation 4

Reference Materials:

UNFCCC website: <http://unfccc.int/2860.php>

IPCC website: <http://www.ipcc.ch>

IPCC (2014). *Fifth Assessment Report (AR5)* <http://www.ipcc.ch/report/ar5>

(Other references will be specified at each lecture.)

Evaluation:

Presentation: 50%

Reports: 50%.

NB. Credits will not be awarded where the student's attendance is less than 80%.

2. Ecosystem Management

Co-ordinator: NATSUHARA Yoshihiro (natuhara@nagoya-u.ac.jp)

Class: Wednesdays, 13:00~14:30

Place: Liberal Arts & Sciences – Main Building, 3F, Room SIS5

The objective of this class is to provide students with fundamental concepts of ecology for ecosystem management, which integrates scientific knowledge toward a goal of protecting ecosystem integrity without damaging its resilience. This class focuses on the ecological concepts and methods to realise societies in harmony with nature. Students are expected to learn methodology of ecosystem management for sustainable use of ecosystem services by integrating multiple disciplines.

Topics to be covered:

- 1 Ecosystem with evolutionary process
- 2 Population models and sustainable resource management

Courses in the Student's Major

- 3 Inter-specific interaction
- 4 Uncertainty and non-equilibrium of ecosystems
- 5 Risk and adaptive management
- 6 Geographic Information System and landscape planning
- 7 Promotion of biodiversity by multi-stakeholders

Reference Materials:

Readings in Ecology, Oxford University Press
Essentials of Conservation Biology, Fifth Edition, Sinauer
Some basic references will be distributed in class.

Evaluation:

Report 50%, Class attitude 20%, Presentation 30%

3. Environmental Industry Systems

Co-ordinator: TANIKAWA Hiroki (tanikawa@nagoya-u.ac.jp)
Class: Thursdays, 10:30~12:00
Place: Graduate School of Environmental Studies, Lecture Room 1

The course consists of, 1) lectures by environmental industries located in the Chubu area; 2) presentations and/or discussions amongst students, 3) discussions between students and industry representatives. The industries are prominent companies mainly in the field of manufacturing. Note that the students are strongly recommended to take "Theory of Environmental Resources Management".

Topics to be covered:

1. Introduction to the course
2. Lecture by Brother Industries, Ltd.
3. Lecture by Mitsubishi UFJ Research and Consulting Co., Ltd.
4. Lecture by Katahira & Engineers Inc.
5. Lecture by JICA Chubu
6. Lecture by Toho Gas Co., Ltd.
7. Lecture by Seiko Epson Corporation
8. Lecture by Sumitomo Mitsui Banking Corporation
9. Lecture by Saraya Co., Ltd.
10. Lecture by Kasahara-Mokuzai/Somneed
11. Lecture by the City of Nagoya
12. Lecture by Denso Corporation
13. Group presentations and discussions

Reference Materials:

References will be specified in each lecture.

Evaluation:

Presentations and/or discussions: 100%

NB. Credits will not be awarded where the student's attendance is less than 80%.

4. Planning and Design Studio for Historical Environment

Co-ordinator: NISHIZAWA Yasuhiko (nisizawa@corot.nuac.nagoya-u.ac.jp)
Class: Thursdays, 13:00~16:15 (2nd Quarter: 19 November 2015~)
Place: Engineering and Science Building (ES), 4F, Room 435, Graduate Student Studio
Class Capacity: Maximum of 2 NUPACE students

NB. This is an advanced studio workshop for graduate students with experience of architectural or

Courses in the Student's Major

urban design studios.

This design studio aims to teach design theory, methods of preservation of historical heritages, and urban planning in historical districts. In practice, this year students will be requested to draw up proposals for the preservation and renewal of an old reinforced concrete building, "Nagoya Ceramic Center", completed in 1932. Students may propose to convert this building into a community centre, providing new facilities for owners, neighbours, visitors, and Nagoya citizens.

Grading Criteria:

Evaluation is based on the following three points:

1. Conception
2. Programme and planning
3. Presentation

Evaluation:

Presentation of work in final review: 100%

5. Studio Workshop of Architectural Design

Co-ordinators: KATAGI Atsushi (katagi@corot.nuac.nagoya-u.ac.jp)
Class: Thursdays, 8:45~12:00 (1st Quarter: 1 October 2015 ~ 19 November 2015)
Place: Engineering and Science Building (ES), 4F, Room 435, Graduate Student Studio
Class Capacity: Maximum of 2 NUPACE students

NB. This is an advanced studio workshop for graduate students enrolled in architectural courses. Students with no experience of architectural studio workshops will not be admitted.

This design studio workshop is conceived of as a basic component of an architect's professional training. Through man-to-man teaching of the student's esquisse in a studio setting, it aims to, 1) develop the ability to read a site and its surrounding urban context, 2) to understand the given conditions of a project and its regulations, and 3) to propose a design concept and to develop a physical form of architecture.

This academic year's subject comprises a traffic terminal complex in the Nagoya metropolitan area. Students are requested to propose a project taking into consideration physical and social contexts, as based on the findings of a field survey, and develop the architectural design. Details of the subject and schedule will be announced at the beginning of the design studio.

Reference Materials:

Barrie Shelton (2012). *Learning from the Japanese Cities: Looking East in Urban Design*, Routledge.

Evaluation:

Submission of required drawings and model (90%) and oral presentation at the jury (10%).

6. Sustainability and Environmental Studies

Co-ordinator: TANIKAWA Hiroki (tanikawa@nagoya-u.ac.jp)
Class: Fridays, 10:30~12:00
Place: Graduate School of Environmental Studies, Lecture Room 2

The objective of the course is to provide students with several definitions, views, interpretations, and analyses of the notion of sustainability. The lectures are to be given by several lecturers, who may include external guest researcher(s). Sustainability covers broad areas. It is therefore inevitable that the course consists of various topics. The course tries to clarify the topics from three viewpoints, namely, 1) society and/or social sciences, 2) observation and data by natural sciences, and 3) an urban and spatial

Courses in the Student's Major

perspective. One common element that should be noted here is 'safety'.

Topics to be covered:

1. Orientation
2. What is "Sustainability" and "Sustainable Development"?
3. Sustainable Transport Systems
4. Global Change Monitoring by Remote Sensing
5. Safe Production and Consumption of Chemical Products
6. Creating Urban Green Infrastructure
7. Present Status of Scientific Understanding of Global Warming
8. Natural Disasters and Society: Case-study of the 2004 Tsunami and its Effects on Aceh, Indonesia
9. Kosa and Desertification
10. Sustainable Material Use and Low-carbonisation Society
11. Open Discussion
12. Open Discussion
13. Open Discussion
14. Report Submission and Wrap-Up Discussion

Reference Materials:

References will be introduced at the beginning of the course, and distributed at each lecture.

Evaluation:

Reports: 100%

7. Water and Waste Management Engineering

Co-ordinator: Victor MUHANDIKI (victor@urban.env.nagoya-u.ac.jp)

Class: Thursdays, 08:45~10:15

Place: Graduate School of Environmental Studies, Lecture Room 1

Water pollution and solid waste are some of the major environmental problems facing our society today. In this class we will learn about various technologies and measures applied in drinking water supply, control of pollution of water bodies, and solid waste management.

Topics to be covered:

1. The hydrologic cycle
2. Water treatment and water supply systems
3. Operation and management of water supply systems
4. Discussion: Should water supply be privatised?
5. Domestic wastewater treatment systems
6. Cost of domestic wastewater treatment systems
7. Point and non-point sources of pollution
8. Estimation of point and non-point source pollution load
9. Point and non-point source pollution control measures
10. Design of solid waste handling facilities (I)
11. Design of solid waste handling facilities (II)
12. Solid waste treatment facilities in Nagoya
13. Open Discussion
14. Presentation (about water and/or waste issues in home country)
15. Presentation (about water and/or waste issues in home country)

Reference Materials:

Reference materials will be distributed during class.

Davis, M.L. and D.A. Cornwell (1998). *Introduction to Environmental Engineering*. McGraw-Hill, Inc., New York, USA.

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- Dixon J.A., L.F. Scura, R.A. Carpenter and P.B. Sherman (1994). *Economic Analysis of Environmental Impacts*. Earthscan, London, UK. (also available in Japanese)
- Helmer, R. and I. Hespanhol (1997). *Water Pollution Control: A Guideline for the Use of Water Quality Management Principles*. E&FN Spon, London, UK.
- Hester, R.E. and R.M. Harrison (2002). *Environmental and Health Impact of Solid Waste Management Activities*. The Royal Society of Chemistry, Cambridge, UK.
- International Lake Environment Committee Foundation, ILEC (2007). *Integrated Lake Basin Management: An Introduction*. International Lake Environment Committee Foundation, Kusatsu, Japan. (available online at <http://www.ilec.or.jp>) (also available in Japanese)
- International Lake Environment Committee Foundation, ILEC (2005). *Managing Lakes and their Basins for Sustainable Use: A Report for Lake Basin Managers and Stakeholders*. International Lake Environment Committee Foundation, Kusatsu, Japan. (available online at <http://www.ilec.or.jp>) (also available in Japanese)
- International Lake Environment Committee Foundation, ILEC (2003). *World Lake Vision: A Call to Action*. International Lake Environment Committee Foundation, Kusatsu, Japan. (available online at <http://www.ilec.or.jp>) (also available in Japanese)
- Metcalf & Eddy, Inc. (1991). *Wastewater Engineering: Treatment and Reuse*. McGraw-Hill, Inc., New York, USA.
- Ministry of the Environment, Japan (2003). *Annual Report on the Environment in Japan 2003: Local Communities Leading the Transition to a Sustainable Society*. Ministry of the Environment, Japan, Tokyo, Japan. (available online at: <http://www.env.go.jp>)
- Novotny, V. and P. Brown, eds. (2007). *Cities of the Future: Towards Integrated Sustainable Water and Landscape Management*. IWA Publishing, London, UK.
- Novotny, V. (2003). *Water Quality: Diffuse Pollution and Watershed Management*. John Wiley & Sons, Inc., New York, USA.
- Okada, M. and S.A. Peterson (1999). *Water Pollution Control Policy and Management: The Japanese Experience*. Gyosei, Tokyo, Japan. (also available in Japanese)
- Tchobanoglous G., H. Theisen and R. Eliassen (1977). *Solid Wastes: Engineering Principles and Management Issues*. McGraw-Hill, Inc., New York, USA.
- World Commission on Dams, WCD (2000). *Dams and Development: A New Framework for Decision-Making, The Report of the World Commission on Dams*. World Commission on Dams. (available online at <http://www.dams.org/>)
- World Water Council, WWC (2000). *World Water Vision Commission Report: Vision for Water, Life and the Environment*. (available online at <http://www.worldwatercouncil.org>)

Evaluation:

- Reports: 50%
- Examination: 50% (Students with an attendance rate exceeding 80% are eligible for the exam)

Graduate School of International Development (GSID)

1. Educational Development and Co-operation (教育開発・協力論)

- Co-ordinator: YONEZAWA Akiyoshi (yonezawa@gsid.nagoya-u.ac.jp)
- Class: Tuesdays, 08:45~10:15
- Place: Grad. School of International Development (GSID), Seminar Room 6 (515)

This course is intended to generate a comprehensive understanding of theories and practices in educational development and co-operation. The course is divided into two parts: Part one is aimed at fostering the acquisition of basic knowledge and skills necessary when approaching issues in educational development and cooperation. The class covers major methodologies in social sciences, as research in

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educational development and cooperation inevitably requires an interdisciplinary approach. Part two provides an overview of practices in international cooperation in education. Starting with an introduction to basic governance structures and organisations of international co-operation, the class covers major issues in the practices of educational development and co-operation at various levels in education.

2. Japan's Development Experience (日本の開発経験)

Co-ordinators: YONEZAWA Akiyoshi & SHIMADA Yuzuru (yonezawa@gsid.nagoya-u.ac.jp)
Class: Wednesdays, 13:00~14:30
Place: Graduate School of International Development (GSID), 8F, Auditorium

This course examines the development and modernisation process of Japan from various perspectives, including both positive and negative. Lecturers from different disciplines deal with issues such as the economy, law, governments, rural areas, social security systems, education, peace-building, etc. Participants will understand the crucial issues pertaining to Japan's development experience, and consider the adaptability of this experience to other countries.

Topics to be covered*:

1. Introduction
- 2-3. Economics
4. Governance and Law
- 5-6. Education
- 7-8. Social Development
- 9-10. Agricultural/Rural Development
- 11-12. Peace-building
13. Wrap-up Session

*More details will be provided during the first session on October 7.

Reference Materials:

Relevant materials will be introduced in each class.

Evaluation:

Class participation and weekly comment papers.

3. Lect. on Int'l Development 1: International Migration Theory (国際人口移動論)

Co-ordinator: ASAKAWA Akihiro (asakawa@gsid.nagoya-u.ac.jp)
Class: Thursdays, 14:45~16:15
Place: Grad. School of International Development (GSID), 6F, Lecture Room 1 (607)

In this class, various aspects of the current phenomenon on international migration will be considered. Topics covered include immigration control, social integration, remittances, impact for accepting and sending countries, refugee recognition, etc. To understand current immigration issues, Australian radio news on immigration related topics will be introduced in every class.

Topics to be covered:

1. Introduction
2. Basic theory of international migration
3. Education and migration
4. South-south migration
5. Governance of migration policy
6. Unskilled migration
7. Student migration

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8. Irregular migration
9. Demography and migration
10. Asylum (refugee) migration
11. "Migration" from Japan to North Korea
12. Demographic change and migration
13. Migration and the role of remittances
14. Women and international migration
15. Conclusion

Reference Materials:

Relevant materials will be introduced during the course.

Evaluation:

Participation: 30%

Presentation and Discussion: 70%

4. The Law of the United Nations (国連法)

Co-ordinator: YAMAGATA Hideo (yamagata@gsid.nagoya-u.ac.jp)

Class: Tuesdays, 16:30~18:00

Place: Graduate School of International Development (GSID), Lecture Room 3 (613)

The objective of this course is to have students understand the security issues in the framework of the Charter of the United Nations. First, the collective security system is dealt with in comparison with the old balance of powers policy. Second, the changing system of the UN collective security after 1990 will be addressed. Finally, a moot court competition will be carried out by students, who will play, 1) the role of agent for the plaintiff or defendant, or 2) the role of judge. This is a law course. If you have no knowledge of international law, you are strongly advised to take *International Co-operation Law* in the spring semester first.

Topics to be covered:

1. An Overview of the UN Collective Security System
2. The Principle of Non-Use of Force
3. The Right of Self-Defence
4. Humanitarian Intervention
5. UN Collective Security during the Cold War
6. Legal Effects of Resolutions
7. PKO and the Uniting for Peace Resolution
8. Authorisation to Use Force in the Gulf War
9. Developments of UN Collective Security
10. Responsibility to Protect and Human Security
11. Writing Pleadings for Moot Court 1.
12. Writing Pleadings for Moot Court 2.
13. Moot Court Competition 1.
14. Moot Court Competition 2.
15. Moot Court Competition 3.

Reference Materials:

Materials to be used for this course will be supplied.

Evaluation:

Grades will be assessed on the basis of active participation in discussions (40%) and a report based on the pleading or judgement (60%).

Graduate School of Languages and Cultures (GSLC)

1. North American Cultural Studies b: F. Scott Fitzgerald and the 1920s

Co-ordinator: Christopher J. ARMSTRONG (cjarms@lets.chukyo-u.ac.jp)
Class: Fridays, 10:30~12:00
Place: IRB Humanities and Social Sciences, Room 623

The course will focus on F. Scott Fitzgerald and the 1920s, through a careful study of his masterpiece *The Great Gatsby* as well as related short stories and essays by both Scott and Zelda Fitzgerald. The skills component of the course will focus on developing academic skills specific to literary studies, with a conference paper and presentation as the main projects in the course. Students will learn how to draft a proposal, conduct correspondence by email; plan, research and compose a short essay; and develop their skills for academic presentations. In addition to issues of academic format and style, attention will also be given to the use of critical and historical sources in developing the argument of a literary essay.

Reference Materials:

Fitzgerald, F. Scott. *The Great Gatsby*. Ed. Ruth Prigozy. Oxford UP, 2008.

In addition to the text, students may find the following critical sources useful (not required):

Beuka, Robert. *American Icon: Fitzgerald's The Great Gatsby in Critical and Cultural Context*. Camden House, 2011.

Curmutt, Kirk. ed. *A Historical Guide to F. Scott Fitzgerald*. Oxford UP, 2004.

A list of other readings will be distributed in the first few weeks of class.

Evaluation:

Preparation and discussion: 50%

Presentation and Essay: 50%

2. Pragmatics of Verbal Expression b: Innovative writing and translation

Co-ordinator: NAGAHATA, Akitoshi (e43479a@nucc.cc.nagoya-u.ac.jp)
Class: Fridays, 16:30~18:00
Place: IRB Humanities and Social Sciences, Room 623

The primary aims of this course are (1) to learn how innovative writers and poets in the Modernist tradition have utilised translation in their works and what kinds of thoughts on translation can be derived from their innovation; and (2) learn various ways to analyse and appreciate innovative literary texts and cultural products.

In this course, students will learn and discuss how innovative poets and writers in the Modernist tradition have utilised translation and expressions in foreign languages in their works. The special focus will be on Ezra Pound, especially his translation and use of Japanese and Chinese literature, but we will also pay attention to other poets and writers, including Kenneth Rexroth, Rosmarie Waldrop, Theresa Hak Kyung Cha, Yoko Tawada and Caroline Bergvall, and discuss how they use translation and expressions in foreign languages and what kinds of meanings -- literary, linguistic, sociological and political -- can be found in each of the examples. A more detailed class schedule will be provided on the class website: <http://www.lang.nagoya-u.ac.jp/~nagahata/lectures15/modernism/modernism15.html>

Reference Materials:

Internet resources. Ezra Pound, *New Selected Poems and Translations (2nd ed.)* (New Directions, 2010 [ISBN: 978-0811217330]) is recommended.

Evaluation:

Class Participation: 10%

Oral presentations and position papers: 20%

Mid-term paper: 30%

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Final paper: 40%

3. Topics in the Geography of Culture I: Ethics in major religious traditions

Co-ordinator: Simon POTTER (potter@lang.nagoya-u.ac.jp)
Class: Tuesdays, 16:30~18:00
Place: IRB Humanities and Social Sciences, Room 522

The principal objective of the class is to do some projects connected to the subject of ethics, especially in regard to major religions in the world. The class meetings will be devoted to discussing the sections in the textbook which deal with ethics in regard to Hinduism (under the rubric of rāja yoga), Buddhism, Judaism, Christianity, Islam, Confucianism, and Taoism. Each week, students will be expected to write a short essay of approximately 500 words related to the assigned section, and these essays might be integrated into the class discussions. Besides the weekly assignments, students will be required to do a longer, individual research-based project that will be due in the penultimate week of term; this will be a "term paper" of 2000 to 3000 words of text, supplemented by notes and references, and each student's theme will need to be approved after consultation with the professor early in the term.

Reference Materials:

An Interview with Prānavichāra about the Subject of Ethics (2014 version, ¥1200), which will be made available by the professor from the first class meeting.

Evaluation:

Weekly activities (principally written essays): 60%
Term paper: 40%

Graduate School of Law

1. Comparative Studies in Jurisprudence II: Uses of the Public Sphere - Good Practice vs. Corruption

Co-ordinator: MORIGIWA Yasutomo (morigiwa@law.nagoya-u.ac.jp)
Class: Fridays, 13:00~14:30
Place: School of Law, Seminar Room 905

This seminar will combine the theory of legal and business ethics with the practicalities of developing nations. Students will wrestle with questions such as how one can be ethical when working in a system that has corruption. The course, on the one hand, will draw upon theory of liberal democracy and the constitutional state. On the other, it will ask students to address scenarios testing their practical knowledge and rectitude. We will have participation from practitioners and experts as necessary. Students will give oral presentation of assigned topics during the course. A short research paper is also required as the final essay. International and Japanese students are invited to attend.

Course objectives comprise:

- Better understanding of the social responsibilities of the legal profession, government officials and the business person.
- Better appreciation of the functions of the public sector and the role of public administration and the judiciary.
- Based on theoretical understanding of the situation and practical, visceral uptake through role-playing, skill in dealing with difficult moral situations.

Reference Materials:

To be announced.

Evaluation:

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Participation (oral country report and other class activities): 15%
Assignments: 60%
Final essay: 25%

2. Professional Studies in International Economic Law II: Problems of Int'l Economic Law

Co-ordinator: MIZUSHIMA Tomonori (t.mizushima@law.nagoya-u.ac.jp)
Class: Mondays, 13:00~14:30
Place: Graduate School of International Development, Seminar Room 9 (710)

Prerequisites: Some prior knowledge of international law is useful but not essential.

This course is designed to examine some problems of international economic law, including the World Trade Organisation legal system and international investment law. The course topics will be chosen in consultation with students. In 2013, we took up various articles in *International Investment Law and General International Law: From Clinical Isolation to Systemic Integration?* (Rainer Hofmann & Christian J. Tams (eds.), 2011). Students are expected to undertake presentations on assigned topics and make positive contributions to class discussion.

Reference Materials:

Christian J. Tams & Christian Tietje (eds.), *Documents in International Economic Law: Trade, Investment, and Finance* (Oxford UP, 2012).

Evaluation:

Students will be assessed by a report, as well as their presentations and contributions to class discussion.

3. Professional Studies in International Human Rights Law II: Seminar on Human Rights and Refugee Law

Co-ordinator: OBATA Kaoru (obata@law.nagoya-u.ac.jp)
Class: Tuesdays, 13:00~14:30
Place: School of Law, Seminar Room 905

NB. This class is open only to students majoring in law.

In this seminar, we will select some topics related to current problems International Human Rights Law or Refugee Law, and read relevant textbooks and articles. In each class, a student will act as 'reporter', and make a presentation on the assigned subject matter. This will be followed by discussion amongst class members. Participants should have a basic knowledge of International Law in general and Human Rights Law.

Evaluation:

Presentation: 40%
Class Discussion: 30%
Attendance: 30% (an attendance rate of 80% is mandatory)

4. Special Lecture & Seminar: Workshop on International Negotiation

Co-ordinator: Frank BENNETT
Class: Thursdays, 8:45~12:00 (once every two weeks)
Place: School of Law, Seminar Room 911

This special subject will cover negotiation and debating skills relevant to international business transactions. The course will be divided into two parts. In a series of practical exercises, members of the class will be divided into teams, and attempt to negotiate on the basis of facts given in the materials for the exercise. In most class sessions, half of class time will be assigned to the negotiation exercise, and

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half to discussion of the outcome. For more information about this course see:

<http://sam3.pbworks.com/w/page/8850551/2007%20International%20Business%20Negotiation>

Reference Materials:

Fisher, Ury & Patton, *Getting to Yes: negotiating agreement without giving in* (2nd ed. 1991)
(Negotiation and arbitration problems to be distributed.)

Evaluation:

Statement of objectives:	10%
Class attendance & participation:	40%
Final report:	50%

5. Special Lecture & Seminar: Yomiuri Shimbun Special Lecture - Comparative Asian Corporate Theory

Co-ordinator: HARADA Ayako (aharada@law.nagoya-u.ac.jp)
Instructors: Journalists from the *Yomiuri Shimbun's* Tokyo Office
Class: Wednesdays, 14:45~16:15 (~18:00)
Place: School of Law, Seminar Room 911

Journalists from the Tokyo Office of The Yomiuri Shimbun will conduct this course in English, based on their on-the-spot news covering activities in Japan and many other countries, including the United States, as well as teaching experiences in California. A series of topics related to Japan and other Asian countries will be included in the lecture. The objective of this course is not only to provide students with global visions and to prepare themselves as future leaders of their respective countries, but also to promote their interests in the task of news reportage.

Evaluation:

Participation (attendance) and submission of a report at the end of the course.

6. Studies in Jurisprudence: Law as Political Theory I B

Co-ordinator: MORIGIWA Yasutomo (morigiwa@law.nagoya-u.ac.jp)
Class: Thursdays, 14:45~16:15 (class held every two weeks)
Place: IRB Humanities and Social Sciences, Rooms 404/405

This bi-weekly course, with one credit given for each semester, introduces students to the world of legal and political theory, especially that of liberal democracies. Burning questions students have on political power and public order will be examined, and the role of the law therein explained. To facilitate the inquiry, theories of law and state by Hobbes, Locke, Rousseau, Kant, Hegel and Marx, as well as their contemporary counterparts developed by Hart, Dworkin, Raz and Rawls may be discussed. The course will be taught in English, with summaries in Japanese as necessary. International and Japanese students are welcome. The day and time of class is subject to change upon discussion with the participants.

Reference Materials:

John Rawls - *Lectures on the History of Political Philosophy*
John Rawls - *Lectures on the History of Moral Philosophy*

Evaluation:

Participation:	30%
Oral Presentation:	30%
Final Essay:	40%

School of Letters

Courses in the Student's Major

1. 日本語文化入門 II (Introduction to Japanese Language & Culture II)

Co-ordinator: SAITO Fumitoshi
Class: Tuesdays, 16:30~18:00
Place: School of Letters, Lecture Room 237

NB. Course taught in Japanese and which requires at least level N2 (or 2) of the Japanese Language Proficiency Test (JLPT) or equivalent.

この講義は、日本語文化に対する理解を深めることを目的とする。特に、語彙(単語)に焦点が当てられる。また、講義、クラス討論、レポート、グループ発表の様々な形式をとる。

Topics to be covered:

1. 「昨日頭を切ってきたよ」「昨日頭をカットしてきたよ」は言えるのに、「昨日頭を切断してきたよ」だとおきみになってしまうのはなぜ？
2. 「今日は11月3日、祝日でちょうど日曜日にあたります」の中の5個の「日」、なんでみんな読み方が違うの？
3. 「見上げてごらん、星がキラキラまたたいているよ」はなぜロマンチックじゃないの？
4. 「ホーカにケッタマシンで郵便局行ったら、どえりゃあ疲れてまった」ってどんな意味？

Reference Materials:

必要に応じてプリントを配布。

Evaluation:

出席: 30%
授業への貢献度: 30%
レポート: 40%

Graduate School of Mathematics

Perspectives in Mathematical Sciences II (Graduate)/IV (Undergraduate)

Co-ordinators: SHIROMIZU Tetsuya (shiromizu@math.nagoya-u.ac.jp)
TERASAWA Yutaka (yutaka@math.nagoya-u.ac.jp)
SASAHIRA Hirofumi (hsasahira@math.nagoya-u.ac.jp)
Class: Tuesdays, 13:00~14:30
Place: Graduate School of Mathematics Building, Room 109

This course is designed as one of the English courses which the Graduate School of Mathematics provides for graduate and undergraduate students not only from foreign countries but also domestic students who have a strong intention to study abroad or to communicate with foreign scientists in English. All course activities including lectures, homework assignments, questions and consultations are conducted in English. The purpose of this course is to introduce and explain various methods in mathematical science.

Prerequisites: Knowledge of basic undergraduate mathematics including calculus and linear algebra.

Topics to be covered:

A. SHIROMIZU Tetsuya: Introduction to Riemann Geometry and General Relativity

General relativity is based on Riemann geometry and describes warped space times. Through concrete images for space times, one can learn the basics of Riemann geometry.

1. Riemann geometry
2. Einstein equation
3. Exact solutions
4. (1+3) decomposition

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Reference Materials:

R. M. Wald, *General Relativity*, Chicago Univ. Press (1984).

B. TERASAWA Yutaka: Introduction to Convergence Problem of Fourier Series

The goal is to understand when Fourier Series of functions converge or diverge in an appropriate way on the n -dimensional torus. We first discuss pointwise convergence and almost everywhere divergence of Fourier Series on the torus. Then we discuss L^p norm convergence of Fourier Series and its relation to Fourier transform multipliers. Finally, we discuss the relation between Fourier transform multiplier on the torus and the Euclidean space.

Reference Materials:

L. Grafakos, *Classical Fourier Analysis*, chapter III.

C. SASAHIRA Hirofumi: Applications of the Instanton Equation to Topology

The purpose of this course is an introduction to the Donaldson theory. In 1983, S. K. Donaldson discovered that the instanton equation, which comes from particle physics (Yang-Mills theory), is a very powerful tool to study 4-dimensional topology and proved unexpected and remarkable theorems using the instanton equation. Donaldson theory revealed that the topology of smooth 4-manifolds is highly different from that of higher dimensional manifolds. In this course, we will learn some results on 4-dimensional topology proved by using the instanton equation.

Lectures will be held on Dec 22, Jan 12, Jan 19, and Jan 26. First we will review the manifolds theory, differential geometry and topology briefly, and introduce the instanton equation on a 4-manifold. Then we will see some applications of the instanton equation to topology and outline of the proofs.

Reference Materials:

- [1] S. K. Donaldson and P. B. Kronheimer, *The geometry of four-manifolds*, Oxford University Press, 1990.
- [2] S. K. Donaldson, *Floer homology groups in Yang-Mills theory. With the assistance of M. Furuta and D. Kotschick*. Cambridge University Press, 2002.
- [3] 深谷賢治, ゲージ理論とトポロジー, シュプリンガー・フェアラーク東京
- [4] 橋本義武, ゲージ理論の基礎数理, サイエンス社

Evaluation:

Attendance and report problems, as assigned by each instructor. The final grade will be decided according to the totality of the scores

School of Science

Advanced Quantum Chemistry

Co-ordinator: YOKOGAWA Daisuke (052-789-2851)
Class: Wednesdays, 10:30~12:00
Place: School of Science Building B, Lecture Room 3 <B-116>

Prerequisites: Basic knowledge of quantum chemistry and some familiarity with electronic-structure theory and/or molecular dynamics techniques..

Topics to be covered:

In chemical reactions in solution, solute molecules are surrounded by a large number of solvent molecules. To elucidate such a system theoretically, we have to perform quantum mechanical (QM) calculation with solvation effect. In this class, theoretical concepts important for QM methods coupled with solvation theories will be covered.

Courses in the Student's Major

1. Born-Oppenheimer approximation
2. LCAO-MO theory; Hartree-Fock theory
3. Electron correlation problem
4. Basis sets in quantum chemical calculations
5. Density-based methods: Kohn-Sham theory, density functional theory (DFT)
6. Molecular mechanics
7. Solvation theories: How to treat large number of particles (PCM, QM-MM/MD, and RISM)

Textbook:

Self-made scriptum

Reference Materials:

Modern Quantum Chemistry: Introduction to Advanced Electronic Structure Theory (A. Szabo and N.S. Ostlund),
Dover Publications, Inc.

Computer Simulation of Liquids (M. P. Allen and D. J. Tildesley), Oxford University Press

Evaluation:

Final examination and attendance.

Nagoya University Program for Academic Exchange (NUPACE)

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nupace@iee.nagoya-u.ac.jp
<http://nupace.iee.nagoya-u.ac.jp/en/>