研究科共通科目（博士後期課程）

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科目番号	科目名	授業方法	単位数	標準履修年次	実施学期	曜時限	教室	担当教員	授業概要	備考
02CA101	テクニカルライティング基礎	1	2.0	1 - 3	春AB	火5,6	総合B112-1	ミラー ニール	In this course students will develop skills for effective academic writing. Topics will include (1) writing in an appropriate academic style, (2) sentence and paragraph structure, (3) making a text 'flow' (cohesion), (4) writing definitions, and (5) describing processes. Students will learn how to produce a number of key text types including extended definitions and problem-solution texts. There will be a strong focus on vocabulary development using the Academic Word List. Outside class, each week, students will complete self-study vocabulary, grammar exercises and short writing tasks. Students will receive personalized feedback on assessed writing tasks.	* Class size is limited to 50 students. This class is the same contents as OAL0001, OAL0012, 02CA102 and 02CA117. For exchange students, only those enrolled in the SIE program are eligible to take this course. OAL0000と同一。英語で授業。対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.
02CA102	テクニカルライティング基礎	1	2.0	1 - 3	秋AB	火5,6	3B402	ミラー ニール	In this course students will develop skills for effective academic writing. Topics will include (1) writing in an appropriate academic style, (2) sentence and paragraph structure, (3) making a text 'flow' (cohesion), (4) writing definitions, and (5) describing processes. Students will learn how to produce a number of key text types including extended definitions and problem-solution texts. There will be a strong focus on vocabulary development using the Academic Word List. Outside class, each week, students will complete self-study vocabulary, grammar exercises and short writing tasks. Students will receive personalized feedback on assessed writing tasks.	* Class size is limited to 50 students. This class is the same contents as 02CA101 and 02CA117. 英語で授業。対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.

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02CA103	テクニカルライティング発展	1	2.0	1 - 3	春AB	木5,6	総合B108	ミラー ニール	In this course students will apply skills and knowledge developed in Introductory Technical Writing to construct a short research paper based an aspect of their own research. In the first class students will develop a plan for their research paper. In following classes students will learn how to construct the sections that typically make up a research article (Introduction, Methods, Results, Discussion). There will be a strong focus on analysing texts in order to understand the type of information contained in each of the sections, how it is organised, and the typical language features (e.g. vocabulary, grammar structures and phrases). In addition to simple generic texts, students will select and analyse a number of research articles from their own discipline. Students will also learn how to use text analysis tools to help them employ appropriate phraseology in their writing. Students will submit and receive detailed feedback drafts of each section of their paper before submitting a final version for assessment.	* Students wishing to take this course should have already completed Introductory Technical Writing. Class size is limited to 12 students. This class is the same contents as 0AL0003 and 02CA104. For exchange students, only those enrolled in the SIE program are eligible to take this course. 0AL0002と同一。英語で授業。対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.
02CA104	テクニカルライティング発展	1	2.0	1 - 3	秋AB	木5,6	総合B108	ミラー ニール	In this course students will apply skills and knowledge developed in Introductory Technical Writing to construct a short research paper based an aspect of their own research. In the first class students will develop a plan for their research paper. In following classes students will learn how to construct the sections that typically make up a research article (Introduction, Methods, Results, Discussion). There will be a strong focus on analysing texts in order to understand the type of information contained in each of the sections, how it is organised, and the typical language features (e.g. vocabulary, grammar structures and phrases). In addition to simple generic texts, students will select and analyse a number of research articles from their own discipline. Students will also learn how to use text analysis tools to help them employ appropriate phraseology in their writing. Students will submit and receive detailed feedback drafts of each section of their paper before submitting a final version for assessment.	* Students wishing to take this course should have already completed Introductory Technical Writing. Class size is limited to 12 students. This class is the same contents as 02CA103. 英語で授業。対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.

02CA109	アカデミック・プレゼンテーション 1	2	1.0	1 - 3	春AB	火2	総合B108	ミラー ニール	In this practical course students will develop skills to help them make English academic presentations with clarity and confidence. Students will learn about and make three types of presentations: (1) Academic Introductions; (2) Describing and Comparing Objects; and (3) Explaining a Process. In class, students will analyse and discuss sample presentations and learn useful techniques and language. There will be a strong focus on developing clear diction - e.g. pronunciation, word stress, sentence stress and pausing. There will be plenty of opportunities for students to practice presentation skills and to evaluate their own and other's work.	* Students who took 02CA105 or 02CA106 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 18 students. This class is the same contents as 02CA113. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.
02CA110	アカデミック・プレゼンテーション 2	2	1.0	1 - 3	秋AB	火2	総合B108	ミラー ニール	This course continues from Academic Presentations 1. In this practical course students will develop skills to help them present their research in English with clarity and confidence. The first part of the course, students will learn about two types of presentations: (1) Defining a Concept; and (2) Problem-Solution Speech. In class students will analyse and discuss sample presentations and learn useful techniques and language. In the second part, students will make a presentation based an aspect of their research. This will involve applying skills and knowledge that they have learnt in both courses.	* Students who took 02CA105 or 02CA106 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 18 students. This class is the same contents as 02CA114. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.

02CA111	アカデミック・スピーキング 1	2	1.0	1 - 3	春AB	木2	総合B108	ミラー ニール	This course aims to help students improve their speaking skills for communicating in both academic and general contexts. Each lesson is based around a written text or video related a current general science topic (e.g. vaccines, space exploration, robotics, artificial intelligence). Students will learn related vocabulary, practice a selected language function or form and discuss the topic in groups. While the course integrates all four skills areas (speaking, listening, reading and writing), there is a stronger focus on speaking. Each week students will record and submit a spoken homework assignment related to the topic studied in class.	* Students who took 02CA107 or 02CA108 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 24 students. This class is the same contents as 02CA115. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.
02CA112	アカデミック・スピーキング 2	2	1.0	1 - 3	秋AB	木2	総合B108	ミラー ニール	This course aims to help students develop academic skills that they will need when studying in English. The lessons are based around general (but non-specialised) academic themes, including health and medicine, science and robots, alternative energy and genetic engineering. The course integrates all four skills areas (speaking, listening, reading and writing), with a stronger focus on speaking. Each week students will record and submit a spoken homework assignment related to the topic studied in class.	* Students who took 02CA107 or 02CA108 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 24 students. This class is the same contents as 02CA116. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.

02CA113	アカデミック・プレゼンテーション 1	2	1.0	1 - 3	春AB	火3	総合B108	ミラー ニール	In this practical course students will develop skills to help them make English academic presentations with clarity and confidence. Students will learn about and make three types of presentations: (1) Academic Introductions; (2) Describing and Comparing Objects; and (3) Explaining a Process. In class, students will analyse and discuss sample presentations and learn useful techniques and language. There will be a strong focus on developing clear diction - e.g. pronunciation, word stress, sentence stress and pausing. There will be plenty of opportunities for students to practice presentation skills and to evaluate their own and other's work.	* Students who took 02CA105 or 02CA106 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 18 students. This class is the same contents as 02CA109. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.
02CA114	アカデミック・プレゼンテーション 2	2	1.0	1 - 3	秋AB	火3	総合B108	ミラー ニール	This course continues from Academic Presentations 1. In this practical course students will develop skills to help them present their research in English with clarity and confidence. The first part of the course, students will learn about two types of presentations: (1) Defining a Concept; and (2) Problem-Solution Speech. In class students will analyse and discuss sample presentations and learn useful techniques and language. In the second part, students will make a presentation based an aspect of their research. This will involve applying skills and knowledge that they have learnt in both courses.	* Students who took 02CA105 or 02CA106 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 18 students. This class is the same contents as 02CA110. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.

02CA115	アカデミック・スピーキング 1	2	1.0	1 - 3	春AB	木3	総合B108	ミラー ニール	This course aims to help students improve their speaking skills for communicating in both academic and general contexts. Each lesson is based around a written text or video related a current general science topic (e.g. vaccines, space exploration, robotics, artificial intelligence). Students will learn related vocabulary, practice a selected language function or form and discuss the topic in groups. While the course integrates all four skills areas (speaking, listening, reading and writing), there is a stronger focus on speaking. Each week students will record and submit a spoken homework assignment related to the topic studied in class.	* Students who took 02CA107 or 02CA108 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 24 students. This class is the same contents as 02CA111. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.
02CA116	アカデミック・スピーキング 2	2	1.0	1 - 3	秋AB	木3	総合B108	ミラー ニール	This course aims to help students develop academic skills that they will need when studying in English. The lessons are based around general (but non-specialised) academic themes, including health and medicine, science and robots, alternative energy and genetic engineering. The course integrates all four skills areas (speaking, listening, reading and writing), with a stronger focus on speaking. Each week students will record and submit a spoken homework assignment related to the topic studied in class.	* Students who took 02CA107 or 02CA108 cannot take this course for credit - however, they are welcome to audit it. Class size is limited to 24 students. This class is the same contents as 02CA112. 英語で授業。 対面 * To enroll, please sign up on TWINS and come to the first class. During the first two weeks, priority will be given to students from Systems and Information Engineering. During this time, students from other graduate schools can register and attend. However, this does not guarantee enrollment. After week 2, if there is space, students from other graduate schools can enroll.