Graduate School of Frontier BioSciences, The University of Osaka

AY2025 Subject List

・Course registration should be completed via KOAN (https://koan.osaka-u.ac.jp/) in the spring for courses offered in the Spring-Summer semester and in the fall for courses offered in the Fall-Winter semester.
・Please refer to the separate schedule for the schedule of "Group A" courses & Special Lectures.
・The "Group B: Special Lectures" offered in the Spring/Summer Semester will be held on July 31 and August 1 at the RIKEN BDR Kobe Campus (in Port Island).
In addition to course registration, advance application through a designated website is required.
For further details, please refer to the syllabus.
・The schedule for "Group B: Special Lectures" in the Fall/Winter Semester will be announced around September.
・For course contents and the most up-to-date schedule, please refer to the syllabus available on KOAN.

Required Credits

【D1-D2】 ※It is advisable to complete as many credits as possible during D1.

Category		D1	D2	Total	
Group A	ALA (Advanced Liberal Arts Educational Subjects)	1 credit ※Not required for those taking courses only in English.		16 credits	30 credits
Group A	AGL (Advanced Global Literacy Educational Subjects)	1 credit ※Those taking courses only in English need 2 credits.			
Group B	Seminar Subject	4 credits	4 credits		
Group B	Biomechanics	1 credit	1 credit		
Group B	Free Elective Courses ※1	2 credits			
Group A&B	Free Elective Courses ※2	2 credits			
Group C	Research Subject	7 credits	7 credits	14 credits	

【D3-D5】 ※It is advisable to complete as many credits as possible during D3.

Category		D3-D5	Total
Group D	Project Research Subject	2 credits	10 credits
Group E	Research Subject	8 credits	

※1 Group B Free Elective Courses…Earn a total of 2 credits from the following (a) and (b).
(a) Group B "Special Lectures" offered by FBS.
(b) "Advanced Liberal Arts Educational Subjects" and "Advanced Global Literacy Educational Subjects" offered by other graduate schools, etc.
*Please refer to "Subjects / Schedule / Syllabus" at the following link:
https://www.fbs.osaka-u.ac.jp/en/student/curriculum/

※2 Group A&B Free Elective Courses…Earn a total of 2 credits from above (a), (b), and the following (c)-(e).
(c) Group A "Advanced Liberal Arts Educational Subjects" and "Advanced Global Literacy Educational Subjects" offered by FBS.
(d) Group A "Lecture" subjects and "Excercise" subjects offered by FBS.
(e) The following subjects offered by other schools, etc.
<General Education> Mechanics I / Mechanics II / Electromagnetism I / Electromagnetism II
<School of Science> Optical Physics / Animal Physiology A / Plant Physiology
<School of Engineering> Instrumentation and Control Engineering / Optical Electronics
<School of Engineering Science> Electronic Circuit / Bio-Cybernetics / Neurophysiology

Category		Semester	Subject Code	Course Name	Instructor	Language	Student Year	Credits	Required/Elective	Note
A	ALA	Spring	328002	Introduction to Nanobiology II	UEDA Masahiro	Japanese	1, 2	0.5	1 credit (2 courses) required. ※Not required for international students taking only English-taught courses.	・Lecture-style subject. ・If you earn more than 1 credit, the extra credits can be counted as "Group A&B Free Elective Courses."
A	ALA	Spring	328004	Introduction to Biomolecular Networks I	MATSUMOTO Tomonori	Japanese	1, 2	0.5		
A	ALA	Spring	328006	Introduction to Biomolecular Networks III	FUKAGAWA Tatsuo	Japanese	1, 2	0.5		
A	ALA	Spring	328008	Introduction to Biomolecular Networks V	TACHIBANA Makoto	Japanese	1, 2	0.5		
A	ALA	Spring	328011	Introduction to Integrated Biology II	IKEDA Fumiyo	Japanese	1, 2	0.5		
A	ALA	Spring	328014	Introduction to Integrated Biology V	KAI Toshie	Japanese	1, 2	0.5		
A	ALA	Spring	328015	Introduction to Organismal Biosystems I	TSUMAKI Noriyuki	Japanese	1, 2	0.5		
A	ALA	Spring	328016	Introduction to Organismal Biosystems II	ISHII Masaru	Japanese	1, 2	0.5		
A	ALA	Spring	328018	Introduction to Organismal Biosystems IV	NAGASAWA Takashi	Japanese	1, 2	0.5		
A	ALA	Spring	328021	Introduction to Neuroscience III	SUZUKI Mototaka	Japanese	1, 2	0.5		
A	ALA	Spring	328022	Introduction to Neuroscience IV	KITAZAWA Shigeru	Japanese	1, 2	0.5		
A	ALA	Spring	328024	Introduction to Biophysical Dynamics II	INOUE Yasushi	Japanese	1, 2	0.5		
A	ALA	Spring	328026	Introduction to Biomedical Engineering I	TAKAKURA Nobuyuki	Japanese	1, 2	0.5		
A	ALA	Spring	328028	Introduction to Biomedical Engineering III	NAKAGAWA Atushi	Japanese	1, 2	0.5		
A	AGL	Fall	329001	Introduction to Nanobiology I	ISHIJIMA Akihiko	English	1, 2	0.5	1 credit (2 courses) required. ※International students taking only English-taught courses must earn 2 credits (4 courses).	・Lecture-style subject. ・If you earn more than 1 credit, the extra credits can be counted as "Group A&B Free Elective Courses." ※If international students take only English-taught courses, any extra credits beyond 2 credit can be counted as "Group A&B Free Elective Courses."
A	AGL	Fall	329005	Introduction to Biomolecular Networks II	TAKASHIMA Seiji	English	1, 2	0.5		
A	AGL	Fall	329007	Introduction to Biomolecular Networks IV	OKAMOTO Koji	English	1, 2	0.5		
A	AGL	Fall	329009	Introduction to Biomolecular Networks VI	HIROSE Tetsuro	English	1, 2	0.5		
A	AGL	Fall	329010	Introduction to Integrated Biology I	MORITA Ritsuko	English	1, 2	0.5		
A	AGL	Fall	329013	Introduction to Integrated Biology IV	INOUE Daichi	English	1, 2	0.5		
A	AGL	Fall	329017	Introduction to Organismal Biosystems III	SASAKI Hiroshi	English	1, 2	0.5		
A	AGL	Fall	329019	Introduction to Neuroscience I	NISHIMOTO Shinji	English	1, 2	0.5		
A	AGL	Fall	329020	Introduction to Neuroscience II	YAGI Takeshi	English	1, 2	0.5		
A	AGL	Fall	329023	Introduction to Biophysical Dynamics I	KURAHASHI Takashi	English	1, 2	0.5		
A	AGL	Fall	329025	Introduction to Biophysical Dynamics III	KIMURA Shin-ichi	English	1, 2	0.5		
A	AGL	Fall	329027	Introduction to Biomedical Engineering II	HARA Eiji	English	1, 2	0.5		
A	AGL	Fall	329029	Introduction to Biomedical Engineering IV	KURODA Syunichi	English	1, 2	0.5		
A	Lecture	Spring	320001	Introduction to Physics I	KIMURA Shin-ichi	Check syllabus	1, 2	2	Free Elective Courses	・Lecture or exercise-based subject. ・Earned credits can be counted as "Group A&B Free Elective Courses." ※"Exercise in Computer Science has limited capacity (first come, first served). See the syllabus for details.
A	Lecture	Spring	320523	Protein Structure and Chemistry	NAKAGAWA Atushi	Check syllabus	1, 2	1		
A	Exercise	Summer	320011	Exercise in Physics	KIMURA Shin-ichi	Check syllabus	1, 2	1		
A	Exercise	Summer	320015	Exercise in Computer Science	ISHIJIMA Akihiko	Check syllabus	1, 2	1		
B		Spring-Summer	320205	Special Lectures VI	OKADA Yasushi	Check syllabus	1, 2	1	Free Elective Courses	・Lecture-style subject. ・Earned credits can be counted as "Group B Free Elective Courses." or "Group A&B Free Elective Courses."
B		Fall-Winter	320078	Special Lectures I	YAMASHITA Okito	Check syllabus	1, 2	1		
B		Fall-Winter	320079	Special Lectures II	KASHIOKA Hideki	Check syllabus	1, 2	1		
B		Fall-Winter	320080	Special Lectures III	UCHIMURA Motoaki	Check syllabus	1, 2	1		
B		Fall-Winter	320081	Special Lectures IV	IWAMOTO Ryo	Check syllabus	1, 2	1		
B		Fall-Winter	320082	Special Lectures V	ITO Jumpei	Check syllabus	1, 2	1		
B		Fall-Winter	320206	Special Lectures VI	KAWAGUCHI Shin-ichi	Check syllabus	1, 2	1		
B		Fall-Winter	320207	Sepcial Lectures VII	ISHIHARA Naotada	Check syllabus	1, 2	1		

Category	Semester	Subject Code (April entrants)	Subject Code (October entrants)	Course Name	Laboratory	Student Year	Credits	Required/Elective	Note
B	Full-year	No registration required	No registration required	Nanobiology IC	ISHIJIMA Akihiko	1	4	Required (4 credits)	・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). Course content includes the following: -Participation in journal clubs, research progress meetings, and seminars held within the home lab. -Attendance at various seminars inside and outside the university, with the submission of five reports to your supervisor.
B	Full-year			Nanobiology ID	UEDA Masahiro	1	4		
B	Full-year			Biomolecular Networks IA	TAKASHIMA Seiji	1	4		
B	Full-year			Biomolecular Networks IB	FUKAGAWA Tatsuo	1	4		
B	Full-year			Biomolecular Networks IC	OKAMOTO koji	1	4		
B	Full-year			Biomolecular Networks ID	MATSUMOTO Tomonori	1	4		
B	Full-year			Biomolecular Networks IE	TACHIBANA Makoto	1	4		
B	Full-year			Biomolecular Networks IF	HIROSE Tetsuro	1	4		
B	Full-year			Integrated Biology IA	INOUE Daichi	1	4		
B	Full-year			Integrated Biology IB	MORITA Ritsuko	1	4		
B	Full-year			Integrated Biology IC	IKEDA Fumiyo	1	4		
B	Full-year			Integrated Biology IE	KAI Toshie	1	4		
B	Full-year			Organismal Biosystems IA	ISHII Masaru	1	4		
B	Full-year			Organismal Biosystems IB	NAGASAWA Takashi	1	4		
B	Full-year			Organismal Biosystems IC	SASAKI Hiroshi	1	4		
B	Full-year			Neuroscience IA	NISHIMOTO Shinji	1	4		
B	Full-year			Neuroscience IC	YAGI Takeshi	1	4		
B	Full-year			Neuroscience ID	SUZUKI Mototaka	1	4		
B	Full-year			Neuroscience IF	KITAZAWA Shigeru	1	4		
B	Full-year			Biophysical Dynamics IA	KURAHASHI Takashi	1	4		
B	Full-year			Biophysical Dynamics IB	KIMURA Shin-ichi	1	4		
B	Full-year			Biophysical Dynamics ID	INOUE Yasushi	1	4		
B	Full-year			Biomedical Engineering IA	NAKAGAWA Atsushi	1	4		
B	Full-year			Biomedical Engineering IB	TAKAKURA Nobuyuki	1	4		
B	Full-year			Biomedical Engineering IC	HARA Eiji	1	4		
B	Full-year			Biomedical Engineering IF	KURODA Syunichi	1	4		
B	Full-year			Biomedical Engineering IS	Supervisors of Adjunct Faculties' Labs and	1	4		
B	Full-year	No registration required	No registration required	Biomechanics I	Each student's sub-supervisor	1	1	Required (1 credit)	・Course registration will be handled by the Educational Affairs Section around August for April entrants (around February for October entrants). ・The course consists of two meetings with the sub-supervisor, with the submission of the interview report.
B	Full-year	No registration required	No registration required	Nanobiology IIC	ISHIJIMA Akihiko	2	4	Required (4 credits)	・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). Course content includes the following: -Participation in journal clubs, research progress meetings, and seminars held within the home lab. -Attendance at various seminars inside and outside the university, with the submission of five reports to your supervisor.
B	Full-year			Nanobiology IID	UEDA Masahiro	2	4		
B	Full-year			Biomolecular Networks IIA	TAKASHIMA Seiji	2	4		
B	Full-year			Biomolecular Networks IIB	FUKAGAWA Tatsuo	2	4		
B	Full-year			Biomolecular Networks IIC	OKAMOTO koji	2	4		
B	Full-year			Biomolecular Networks IID	MATSUMOTO Tomonori	2	4		
B	Full-year			Biomolecular Networks IIE	TACHIBANA Makoto	2	4		
B	Full-year			Biomolecular Networks IIF	HIROSE Tetsuro	2	4		
B	Full-year			Integrated Biology IIA	INOUE Daichi	2	4		
B	Full-year			Integrated Biology IIB	MORITA Ritsuko	2	4		
B	Full-year			Integrated Biology IIC	IKEDA Fumiyo	2	4		
B	Full-year			Integrated Biology IIE	KAI Toshie	2	4		
B	Full-year			Organismal Biosystems IIA	ISHII Masaru	2	4		
B	Full-year			Organismal Biosystems IIB	NAGASAWA Takashi	2	4		
B	Full-year			Organismal Biosystems IIC	SASAKI Hiroshi	2	4		
B	Full-year			Neuroscience IIA	NISHIMOTO Shinji	2	4		
B	Full-year			Neuroscience IIC	YAGI Takeshi	2	4		
B	Full-year			Neuroscience IID	SUZUKI Mototaka	2	4		
B	Full-year			Neuroscience IIF	KITAZAWA Shigeru	2	4		
B	Full-year			Biophysical Dynamics IIA	KURAHASHI Takashi	2	4		
B	Full-year			Biophysical Dynamics IIB	KIMURA Shin-ichi	2	4		
B	Full-year			Biophysical Dynamics IID	INOUE Yasushi	2	4		
B	Full-year			Biomedical Engineering IIA	NAKAGAWA Atsushi	2	4		
B	Full-year			Biomedical Engineering IIB	TAKAKURA Nobuyuki	2	4		
B	Full-year			Biomedical Engineering IIC	HARA Eiji	2	4		
B	Full-year			Biomedical Engineering IIF	KURODA Syunichi	2	4		
B	Full-year			Biomedical Engineering IIS	Supervisors of Adjunct Faculties' Labs and	2	4		
B	Full-year	No registration required	No registration required	Biomechanics II	Each student's sub-supervisor	2	1	Required (1 credit)	・Course registration will be handled by the Educational Affairs Section. ・The course consists of two meetings with the sub-supervisor, with the submission of the interview report.

Category	Semester	Subject Code (April entrants)	Subject Code (October entrants)	Course Name	Laboratory	Student Year	Credits	Required/Elective	Note
C	Full-year	No registration required	No registration required	Seminar in Nanobiology IC	ISHIJIMA Akihiko	1	7	Required (7 credits)	・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). Course content includes the following: -Conduct daily research activities in the home lab. -Completion of the "Research Ethics" e-learning course is required. Details will be provided via email separately.
C	Full-year			Seminar in Nanobiology ID	UEDA Masahiro	1	7		
C	Full-year			Seminar in Biomolecular Networks IA	TAKASHIMA Seiji	1	7		
C	Full-year			Seminar in Biomolecular Networks IB	FUKAGAWA Tatsuo	1	7		
C	Full-year			Seminar in Biomolecular Networks IC	OKAMOTO koji	1	7		
C	Full-year			Seminar in Biomolecular Networks ID	MATSUMOTO Tomonori	1	7		
C	Full-year			Seminar in Biomolecular Networks IE	TACHIBANA Makoto	1	7		
C	Full-year			Seminar in Biomolecular Networks IF	HIROSE Tetsuro	1	7		
C	Full-year			Seminar in Integrated Biology IA	INOUE Daichi	1	7		
C	Full-year			Seminar in Integrated Biology IB	MORITA Ritsuko	1	7		
C	Full-year			Seminar in Integrated Biology IC	IKEDA Fumiyo	1	7		
C	Full-year			Seminar in Integrated Biology IE	KAI Toshie	1	7		
C	Full-year			Seminar in Organismal Biosystems IA	ISHII Masaru	1	7		
C	Full-year			Seminar in Organismal Biosystems IB	NAGASAWA Takashi	1	7		
C	Full-year			Seminar in Organismal Biosystems IC	SASAKI Hiroshi	1	7		
C	Full-year			Seminar in Neuroscience IA	NISHIMOTO Shinji	1	7		
C	Full-year			Seminar in Neuroscience IC	YAGI Takeshi	1	7		
C	Full-year			Seminar in Neuroscience ID	SUZUKI Mototaka	1	7		
C	Full-year			Seminar in Neuroscience IF	KITAZAWA Shigeru	1	7		
C	Full-year			Seminar in Biophysical Dynamics IA	KURAHASHI Takashi	1	7		
C	Full-year			Seminar in Biophysical Dynamics IB	KIMURA Shin-ichi	1	7		
C	Full-year			Seminar in Biophysical Dynamics ID	INOUE Yasushi	1	7		
C	Full-year			Seminar in Biomedical Engineering IA	NAKAGAWA Atsushi	1	7		
C	Full-year			Seminar in Biomedical Engineering IB	TAKAKURA Nobuyuki	1	7		
C	Full-year			Seminar in Biomedical Engineering IC	HARA Eiji	1	7		
C	Full-year			Seminar in Biomedical Engineering IF	KURODA Syunichi	1	7		
C	Full-year			Seminar in Biomedical Engineering IS	Supervisors of Adjunct Faculties' Labs and Cooperating Institutes	1	7		
C	Full-year	No registration required	No registration required	Seminar in Nanobiology IIC	ISHIJIMA Akihiko	2	7	Required (7 credits)	・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). ・Course content includes the following: -Conduct daily research activities in the home lab.
C	Full-year			Seminar in Nanobiology IID	UEDA Masahiro	2	7		
C	Full-year			Seminar in Biomolecular Networks IIA	TAKASHIMA Seiji	2	7		
C	Full-year			Seminar in Biomolecular Networks IIB	FUKAGAWA Tatsuo	2	7		
C	Full-year			Seminar in Biomolecular Networks IIC	OKAMOTO koji	2	7		
C	Full-year			Seminar in Biomolecular Networks IID	MATSUMOTO Tomonori	2	7		
C	Full-year			Seminar in Biomolecular Networks IIE	TACHIBANA Makoto	2	7		
C	Full-year			Seminar in Biomolecular Networks IIF	HIROSE Tetsuro	2	7		
C	Full-year			Seminar in Integrated Biology IIA	INOUE Daichi	2	7		
C	Full-year			Seminar in Integrated Biology IIB	MORITA Ritsuko	2	7		
C	Full-year			Seminar in Integrated Biology IIC	IKEDA Fumiyo	2	7		
C	Full-year			Seminar in Integrated Biology IIE	KAI Toshie	2	7		
C	Full-year			Seminar in Organismal Biosystems IIA	ISHII Masaru	2	7		
C	Full-year			Seminar in Organismal Biosystems IIB	NAGASAWA Takashi	2	7		
C	Full-year			Seminar in Organismal Biosystems IIC	SASAKI Hiroshi	2	7		
C	Full-year			Seminar in Neuroscience IIA	NISHIMOTO Shinji	2	7		
C	Full-year			Seminar in Neuroscience IIC	YAGI Takeshi	2	7		
C	Full-year			Seminar in Neuroscience IID	SUZUKI Mototaka	2	7		
C	Full-year			Seminar in Neuroscience IIF	KITAZAWA Shigeru	2	7		
C	Full-year			Seminar in Biophysical Dynamics IIA	KURAHASHI Takashi	2	7		
C	Full-year			Seminar in Biophysical Dynamics IIB	KIMURA Shin-ichi	2	7		
C	Full-year			Seminar in Biophysical Dynamics IID	INOUE Yasushi	2	7		
C	Full-year			Seminar in Biomedical Engineering IIA	NAKAGAWA Atsushi	2	7		
C	Full-year			Seminar in Biomedical Engineering IIB	TAKAKURA Nobuyuki	2	7		
C	Full-year			Seminar in Biomedical Engineering IIC	HARA Eiji	2	7		
C	Full-year			Seminar in Biomedical Engineering IIF	KURODA Syunichi	2	7		
C	Full-year			Seminar in Biomedical Engineering IIS	Supervisors of Adjunct Faculties' Labs and Cooperating Institutes	2	7		

Category	Semester	Subject Code (April entrants)	Subject Code (October entrants)	Course Name	Laboratory	Student Year	Credits	Required/Elective	Note
D	Full-year	No registration required	No registration required	Project Research II	TACHIBANA Makoto	3-5	2	Required (2 credits)	Conduct research outside the home lab. Consult with your supervisor to determine the research activities and coordinate with the host lab. The research activities should follow A, but B is also acceptable. A. Conduct research in another laboratory within FBS. 1) Participate in research (approximately 2 weeks in total) 2) Engage in research activities such as seminars, colloquia, and journal clubs (approximately once a week for a total of 8 weeks). It is preferable to have an opportunity to present during this period. B. Other As long as the supervisor determines that the student is "participating in research in another lab," the activity can be recognized for credit. Please have your supervisor decide whether the activity can be approved. Examples of approved activities: 3) Participation in practical courses or short-term intensive courses in Japan or abroad. 4) Attendance at lectures or journal clubs conducted by international faculty members. 5) Participation in research at other laboratories in Japan or abroad. 6) Participation in internships at companies. Register for courses as follows: ① If you are planning to "conduct research in another lab within FBS", please obtain approval from the host lab and respond to the form below. ・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). ② Other Your supervisor is responsible for credit approval. Please respond to the form below. ・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). forms URL: https://forms.office.com/r/VbuU1cKU3u
D	Full-year			Project Research III	ISHIJIMA Akihiko	3-5	2		
D	Full-year			Project Research IV	TAKASHIMA Seiji	3-5	2		
D	Full-year			Project Research V	FUKAGAWA Tatsuo	3-5	2		
D	Full-year			Project Research VI	KAI Toshie	3-5	2		
D	Full-year			Project Research VII	HIROSE Tetsuro	3-5	2		
D	Full-year			Project Research VIII	INOUE Daichi	3-5	2		
D	Full-year			Project Research IX	MORITA Ritsuko	3-5	2		
D	Full-year			Project Research X	IKEDA Fumiyo	3-5	2		
D	Full-year			Project Research XII	ISHII Masaru	3-5	2		
D	Full-year			Project Research XIII	NAGASAWA Takashi	3-5	2		
D	Full-year			Project Research XIV	SASAKI Hiroshi	3-5	2		
D	Full-year			Project Research XV	TSUMAKI Noriyuki	3-5	2		
D	Full-year			Project Research XVI	NISHIMOTO Shinji	3-5	2		
D	Full-year			Project Research XVII	UEDA Masahiro	3-5	2		
D	Full-year			Project Research XVIII	YAGI Takeshi	3-5	2		
D	Full-year			Project Research XIX	SUZUKI Mototaka	3-5	2		
D	Full-year			Project Research XXI	KURAHASHI Takashi	3-5	2		
D	Full-year			Project Research XXII	KIMURA Shin-ichi	3-5	2		
D	Full-year			Project Research XXIII	KITAZAWA Shigeru	3-5	2		
D	Full-year			Project Research XXIV	INOUE Yasushi	3-5	2		
D	Full-year			Project Research XXV	NAKAGAWA Atsushi	3-5	2		
D	Full-year			Project Research XXVI	TAKAKURA Nobuyuki	3-5	2		
D	Full-year			Project Research XXVII	HARA Eiji	3-5	2		
D	Full-year			Project Research XXX	KURODA Syunichi	3-5	2		
D	Full-year			Project Research XXXI	OKAMOTO koji	3-5	2		
D	Full-year			Project Research XXXII	MATSUMOTO Tomonori	3-5	2		
D	Full-year			Project Research S	Supervisors of Adjunct Faculties' Labs and Cooperating Institutes	3-5	2		
E	Full-year	No registration required	No registration required	Advanced Seminar in Nanobiology C	ISHIJIMA Akihiko	3-5	8	Required (8 credits)	・Course registration will be handled by the Educational Affairs Section around May for April entrants (around November for Octover entrants). ・If you would like to register in your 4th or 5th year, please contact to the Educational Affairs Section by April. Course content includes the following: -Conduct daily research activities in the home lab. -Completion of the "Research Ethics" e-learning course is required. Details will be provided via email separately.
E	Full-year			Advanced Seminar in Nanobiology D	UEDA Masahiro	3-5	8		
E	Full-year			Advanced Seminar in Biomolecular Networks A	TAKASHIMA Seiji	3-5	8		
E	Full-year			Advanced Seminar in Biomolecular Networks B	FUKAGAWA Tatsuo	3-5	8		
E	Full-year			Advanced Seminar in Biomolecular Networks C	OKAMOTO koji	3-5	8		
E	Full-year			Advanced Seminar in Biomolecular Networks D	HIROSE Tetsuro	3-5	8		
E	Full-year			Advanced Seminar in Biomolecular Networks E	TACHIBANA Makoto	3-5	8		
E	Full-year			Advanced Seminar in Biomolecular Networks F	MATSUMOTO Tomonori	3-5	8		
E	Full-year			Advanced Seminar in Integrated Biology A	INOUE Daichi	3-5	8		
E	Full-year			Advanced Seminar in Integrated Biology B	MORITA Ritsuko	3-5	8		
E	Full-year			Advanced Seminar in Integrated Biology C	IKEDA Fumiyo	3-5	8		
E	Full-year			Advanced Seminar in Integrated Biology E	KAI Toshie	3-5	8		
E	Full-year			Advanced Seminar in Organismal Biosystems A	ISHII Masaru	3-5	8		
E	Full-year			Advanced Seminar in Organismal Biosystems B	NAGASAWA Takashi	3-5	8		
E	Full-year			Advanced Seminar in Organismal Biosystems C	SASAKI Hiroshi	3-5	8		
E	Full-year			Advanced Seminar in Neuroscience A	NISHIMOTO Shinji	3-5	8		
E	Full-year			Advanced Seminar in Neuroscience C	YAGI Takeshi	3-5	8		
E	Full-year			Advanced Seminar in Neuroscience D	SUZUKI Mototaka	3-5	8		
E	Full-year			Advanced Seminar in Neuroscience F	KITAZAWA Shigeru	3-5	8		
E	Full-year			Advanced Seminar in Biophysical Dynamics A	KURAHASHI Takashi	3-5	8		
E	Full-year			Advanced Seminar in Biophysical Dynamics B	KIMURA Shin-ichi	3-5	8		
E	Full-year			Advanced Seminar in Biophysical Dynamics D	INOUYE YASUSHI	3-5	8		
E	Full-year			Advanced Seminar in Biomedical Engineering A	NAKAGAWA Atsushi	3-5	8		
E	Full-year			Advanced Seminar in Biomedical Engineering B	TAKAKURA Nobuyuki	3-5	8		
E	Full-year			Advanced Seminar in Biomedical Engineering C	HARA Eiji	3-5	8		
E	Full-year			Advanced Seminar in Biomedical Engineering F	KURODA Syunichi	3-5	8		
E	Full-year			Advanced Seminar in Biomedical Engineering S	Supervisors of Adjunct Faculties' Labs and Cooperating Institutes	3-5	8		