

# 2023

## Graduate School of Frontier BioSciences

### Subject List

Subject Group		Year	Requirements			
Group A	Core Subjects	1	2 credits	Total 16 credits	30 credits *required for Master's Degree	40 credits *requirement for students admitted to the 5-year doctoral course
Group B	Elective Subjects	1-2	12 credits			
Group C	Research Subjects	1-2	14 credits			
Group D	Project Research Subjects	3-5	2 credits		10 credits *requirement for 3rd-year transferred students	
Group E	Research Subjects	3-5	8 credits			

**Group A subjects (For 1st year and/or 2nd year )**

Group		Subject Code	Subject Name	Semester	Language	Year	Credit	Lecturer	
A	Lecture	320001	Introduction to Physics I	Spring	Japanese	1	2	KIMURA Shin-ichi	Elective
A	Lecture	320523	Protein Structure and Chemistry	Spring	Japanese	1	1	NAKAGAWA Atushi	
A	Exercise	320011	Exercise in Physics	Summer	Japanese	1	1	KIMURA Shin-ichi	
A	Exercise	320015	Exercise in Computer Science	Summer	Japanese	1	1	ISHIJIMA Akihiko	
A	ALA	328002	Introduction to Nanobiology II	Spring	Japanese	1・2	0.5	UEDA Masahiro	Required (at least 2 credits / 1st-2nd year)
A	ALA	328006	Introduction to Biomolecular Networks III	Spring	Japanese	1・2	0.5	FUKAGAWA Tatsuo	
A	ALA	328008	Introduction to Biomolecular Networks V	Spring	Japanese	1・2	0.5	TACHIBANA Makoto	
A	ALA	328010	Introduction to Integrated Biology I	Spring	Japanese	1・2	0.5	MORITA Ritsuko	
A	ALA	328011	Introduction to Integrated Biology II	Spring	Japanese	1・2	0.5	IKEDA Fumiyo	
A	ALA	328012	Introduction to Integrated Biology III	Spring	Japanese	1・2	0.5	KONDO Shigeru	
A	ALA	328014	Introduction to Integrated Biology V	Spring	Japanese	1・2	0.5	KAI Toshie	
A	ALA	328015	Introduction to Organismal Biosystems I	Spring	Japanese	1・2	0.5	TSUMAKI Noriyuki	
A	ALA	328016	Introduction to Organismal Biosystems II	Spring	Japanese	1・2	0.5	ISHII Masaru	
A	ALA	328018	Introduction to Organismal Biosystems IV	Spring	Japanese	1・2	0.5	NAGASAWA Takashi	
A	ALA	328022	Introduction to Neuroscience IV	Spring	Japanese	1・2	0.5	KITAZAWA Shigeru	
A	ALA	328024	Introduction to Biophysical Dynamics II	Spring	Japanese	1・2	0.5	INOUE Yasushi	
A	ALA	328026	Introduction to Biomedical Engineering I	Spring	Japanese	1・2	0.5	TAKAKURA Nobuyuki	
A	ALA	328028	Introduction to Biomedical Engineering III	Spring	Japanese	1・2	0.5	NAKAGAWA Atushi	
A	AGL	329001	Introduction to Nanobiology I	Fall	English	1・2	0.5	ISHIJIMA Akihiko	
A	AGL	329005	Introduction to Biomolecular Networks II	Fall	English	1・2	0.5	TAKASHIMA Seiji	
A	AGL	329007	Introduction to Biomolecular Networks IV	Fall	English	1・2	0.5	OKAMOTO Koji	
A	AGL	329009	Introduction to Biomolecular Networks VI	Fall	English	1・2	0.5	HIROSE Tetsuro	
A	AGL	329013	Introduction to Integrated Biology IV	Fall	English	1・2	0.5	YOSHIMORI Tamotsu	
A	AGL	329017	Introduction to Organismal Biosystems III	Fall	English	1・2	0.5	SASAKI Hiroshi	
A	AGL	329019	Introduction to Neuroscience I	Fall	English	1・2	0.5	NISHIMOTO Shinji	
A	AGL	329020	Introduction to Neuroscience II	Fall	English	1・2	0.5	YAGI Takeshi	
A	AGL	329021	Introduction to Neuroscience III	Fall	English	1・2	0.5	HORIE Takeo	
A	AGL	329023	Introduction to Biophysical Dynamics I	Fall	English	1・2	0.5	KURAHASHI Takashi	
A	AGL	329025	Introduction to Biophysical Dynamics III	Fall	English	1・2	0.5	KIMURA Shin-ichi	
A	AGL	329027	Introduction to Biomedical Engineering II	Fall	English	1・2	0.5	HARA Eiji	
A	AGL	329029	Introduction to Biomedical Engineering IV	Fall	English	1・2	0.5	KURODA Syunichi	

ALA: Advanced Liberal Arts Educational Subjects

AGL: Advanced Global Literacy Educational Subjects

※You must take a minimum of 2 credits from the core subjects in Group A, including 2 subjects (=1 credit) from **ALA subjects** and 2 subjects (=1 credit) from **AGL subjects**. However, for students who are undertaking their studies/research in English, **AGL subjects** can be regarded as **ALA subjects**.

※In case a subject limits the number of students, in principle, 1st year students will be prioritized.

**Group B subjects (For 1st year )**

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
B	320347	329347	Nanobiology IC	Full year	1	4	FUKUOKA Hajime	<b>Required</b> (4 credits / 1st year) ※choose your lab
B	320348	329348	Nanobiology ID	Full year	1	4	UEDA Masahiro	
B	320353	329353	Biomolecular Networks IA	Full year	1	4	TAKASHIMA Seiji	
B	320354	329354	Biomolecular Networks IB	Full year	1	4	HORI Tetsuya	
B	320355	329355	Biomolecular Networks IC	Full year	1	4	OKAMOTO koji	
B	320656	329656	Biomolecular Networks IE	Full year	1	4	TACHIBANA Makoto	
B	320657	329657	Biomolecular Networks IF	Full year	1	4	HIROSE Tetsuro	
B	320361	329361	Integrated Biology IA	Full year	1	4	HAMASAKI Maho	
B	320362	329362	Integrated Biology IB	Full year	1	4	MORITA Ritsuko	
B	320363	329363	Integrated Biology IC	Full year	1	4	IKEDA Fumiyo	
B	320364	329364	Integrated Biology ID	Full year	1	4	WATANABE Masakatsu	
B	320365	329365	Integrated Biology IE	Full year	1	4	KAI Toshie	
B	320371	329371	Organismal Biosystems IA	Full year	1	4	ISHII Masaru	
B	320372	329372	Organismal Biosystems IB	Full year	1	4	NAGASAWA Takashi	
B	320373	329373	Organismal Biosystems IC	Full year	1	4	SASAKI Hiroshi	
B	320379	329379	Neuroscience IA	Full year	1	4	NISHIMOTO Shinji	
B	320381	329381	Neuroscience IC	Full year	1	4	YAGI Takeshi	
B	320382	329382	Neuroscience ID	Full year	1	4	HORIE Takeo	
B	320384	329384	Neuroscience IF	Full year	1	4	KITAZAWA Shigeru	
B	320391	329391	Biophysical Dynamics IA	Full year	1	4	TAKEUCHI Hiroko	
B	320392	329392	Biophysical Dynamics IB	Full year	1	4	WATANABE Junji	
B	320394	329394	Biophysical Dynamics ID	Full year	1	4	ISHITOBI Hidekazu	
B	320399	329399	Biomedical Engineering IA	Full year	1	4	SUZUKI Mamoru	
B	320400	329400	Biomedical Engineering IB	Full year	1	4	TAKAKURA Nobuyuki	
B	320401	329401	Biomedical Engineering IC	Full year	1	4	HARA Eiji	
B	320404	329404	Biomedical Engineering IF	Full year	1	4	KURODA Syunichi	
B	320407	329407	Biomedical Engineering IS	Full year	1	4	Affiliated Labs, Cooperated Institutes, Adjunct Faculties	
<b>B</b>	※	※	<b>Biomechanics I</b>	<b>Full year</b>	<b>1</b>	<b>1</b>	<b>Sub supervisor</b>	<b>Required</b>
B	320078		Special Lectures I	Fall~Winter	1	1	TBA	Elective
B	320079		Special Lectures II	Fall~Winter	1	1	TBA	
B	320080		Special Lectures III	Fall~Winter	1	1	TBA	
B	320082		Special Lectures V	Fall~Winter	1	1	TBA	
B	320205		Special Lectures VI	Fall~Winter	1	1	TBA	
B	320206		Special Lectures VII	Fall~Winter	1	1	TBA	

※One of the above subjects with your supervisor's name and "Biomechanics I" are the required subjects for the 1st year.

●If you cannot find your supervisor's name on the list, please register "Biomedical Engineering IS".

●You do not need to register "Biomechanics I" by yourself. It will be registered by FBS Educational Affairs after your sub-supervisor is fixed.

※For the details of the "Special Lecture", please check syllabus from KOAN.

**Group B subjects (For 2nd year )**

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
B	320351	329351	Nanobiology IIC	Full year	2	4	ISHIJIMA Akihiko	<b>Required</b> (4 credits / 2nd year)  ※choose your lab
B	320352	329352	Nanobiology IID	Full year	2	4	UEDA Masahiro	
B	320357	329357	Biomolecular Networks IIA	Full year	2	4	TAKASHIMA Seiji	
B	320358	329358	Biomolecular Networks IIB	Full year	2	4	FUKAGAWA Tatsuo	
B	320359	329359	Biomolecular Networks IIC	Full year	2	4	OKAMOTO koji	
B	320658	329658	Biomolecular Networks IIE	Full year	2	4	TACHIBANA Makoto	
B	320659	329659	Biomolecular Networks IIF	Full year	2	4	HIROSE Tetsuro	
B	320366	329366	Integrated Biology IIA	Full year	2	4	YOSHIMORI Tamotsu	
B	320367	329367	Integrated Biology IIB	Full year	2	4	MORITA Ritsuko	
B	320368	329368	Integrated Biology IIC	Full year	2	4	IKEDA Fumiyo	
B	320369	329369	Integrated Biology IID	Full year	2	4	KONDO Shigeru	
B	320370	329370	Integrated Biology IIE	Full year	2	4	KAI Toshie	
B	320375	329375	Organismal Biosystems IIA	Full year	2	4	ISHII Masaru	
B	320376	329376	Organismal Biosystems IIB	Full year	2	4	NAGASAWA Takashi	
B	320377	329377	Organismal Biosystems IIC	Full year	2	4	SASAKI Hiroshi	
B	320385	329385	Neuroscience IIA	Full year	2	4	NISHIMOTO Shinji	
B	320387	329387	Neuroscience IIC	Full year	2	4	YAGI Takeshi	
B	320388	329388	Neuroscience IID	Full year	2	4	HORIE Takeo	
B	320390	329390	Neuroscience IIF	Full year	2	4	KITAZAWA Shigeru	
B	320395	329395	Biophysical Dynamics IIA	Full year	2	4	KURAHASHI Takashi	
B	320396	329396	Biophysical Dynamics IIB	Full year	2	4	KIMURA Shin-ichi	
B	320398	329398	Biophysical Dynamics IID	Full year	2	4	INOUE YASUSHI	
B	320408	329408	Biomedical Engineering IIA	Full year	2	4	NAKAGAWA Atsushi	
B	320409	329409	Biomedical Engineering IIB	Full year	2	4	TAKAKURA Nobuyuki	
B	320410	329410	Biomedical Engineering IIC	Full year	2	4	HARA Eiji	
B	320413	329413	Biomedical Engineering IIF	Full year	2	4	KURODA Syunichi	
B	320414	329414	Biomedical Engineering IIS	Full year	2	4	Affiliates, Cooperation Program, Non-resident Professors	
B	※	※	<b>Biomechanics II</b>	<b>Full year</b>	<b>2</b>	<b>1</b>	<b>Sub supervisor</b>	<b>Required</b>

※One of the above subjects with your supervisor's name and "Biomechanics II" are the required subjects for the 2nd year.

●If you cannot find your supervisor's name on the list, please register "Biomedical Engineering IIS".

●You do not need to register "Biomechanics II" by yourself. It will be registered by FBS Educational Affairs after your sub-supervisor is fixed.

※In case you did not get enough credits to fulfill group B requirement during your 1st year, please take Special Lectures in the 2nd year as well though these subjects are originally for 1st-year students.

**Group C subjects (For 1st year )**

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
C	320417	329417	Seminar in Nanobiology IC	Full year	1	7	FUKUOKA Hajime	<b>Required</b> (7 credits / 1st year) ※choose your lab
C	320418	329418	Seminar in Nanobiology ID	Full year	1	7	UEDA Masahiro	
C	320423	329423	Seminar in Biomolecular Networks IA	Full year	1	7	TAKASHIMA Seiji	
C	320424	329424	Seminar in Biomolecular Networks IB	Full year	1	7	HORI Tetsuya	
C	320425	329425	Seminar in Biomolecular Networks IC	Full year	1	7	OKAMOTO koji	
C	320660	329660	Seminar in Biomolecular Networks IE	Full year	1	7	TACHIBANA Makoto	
C	320661	329661	Seminar in Biomolecular Networks IF	Full year	1	7	HIROSE Tetsuro	
C	320431	329431	Seminar in Integrated Biology IA	Full year	1	7	HAMASAKI Maho	
C	320432	329432	Seminar in Integrated Biology IB	Full year	1	7	MORITA Ritsuko	
C	320433	329433	Seminar in Integrated Biology IC	Full year	1	7	IKEDA Fumiyo	
C	320434	329434	Seminar in Integrated Biology ID	Full year	1	7	WATANABE Masakatsu	
C	320435	329435	Seminar in Integrated Biology IE	Full year	1	7	KAI Toshie	
C	320441	329441	Seminar in Organismal Biosystems IA	Full year	1	7	ISHII Masaru	
C	320442	329442	Seminar in Organismal Biosystems IB	Full year	1	7	NAGASAWA Takashi	
C	320443	329443	Seminar in Organismal Biosystems IC	Full year	1	7	SASAKI Hiroshi	
C	320449	329449	Seminar in Neuroscience IA	Full year	1	7	NISHIMOTO Shinji	
C	320451	329451	Seminar in Neuroscience IC	Full year	1	7	KANEKO Ryosuke	
C	320452	329452	Seminar in Neuroscience ID	Full year	1	7	HORIE Takeo	
C	320454	329454	Seminar in Neuroscience IF	Full year	1	7	KITAZAWA Shigeru	
C	320461	329461	Seminar in Biophysical Dynamics IA	Full year	1	7	TAKEUCHI Hiroko	
C	320462	329462	Seminar in Biophysical Dynamics IB	Full year	1	7	WATANABE Junji	
C	320464	329464	Seminar in Biophysical Dynamics ID	Full year	1	7	ISHITOBI Hidekazu	
C	320469	329469	Seminar in Biomedical Engineering IA	Full year	1	7	SUZUKI Mamoru	
C	320470	329470	Seminar in Biomedical Engineering IB	Full year	1	7	TAKAKURA Nobuyuki	
C	320471	329471	Seminar in Biomedical Engineering IC	Full year	1	7	HARA Eiji	
C	320474	329474	Seminar in Biomedical Engineering IF	Full year	1	7	KURODA Syunichi	
C	320477	329477	Seminar in Biomedical Engineering IS	Full year	1	7	Affiliated Labs, Cooperated Institutes, Adjunct Faculties	

※One of the above subjects with your supervisor's name and "Biomechanics I" are the required subjects for the 1st year.

●If you cannot find your supervisor's name on the list, please register "Seminar in Biomedical Engineering IS".

**Group C subjects (For 2nd year )**

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
C	320421	329421	Seminar in Nanobiology IIC	Full year	2	7	ISHIJIMA Akihiko	<b>Required</b> (7 credits / 2nd year) ※choose your lab
C	320422	329422	Seminar in Nanobiology IID	Full year	2	7	UEDA Masahiro	
C	320427	329427	Seminar in Biomolecular Networks IIA	Full year	2	7	TAKASHIMA Seiji	
C	320428	329428	Seminar in Biomolecular Networks IIB	Full year	2	7	FUKAGAWA Tatsuo	
C	320429	329429	Seminar in Biomolecular Networks IIC	Full year	2	7	OKAMOTO koji	
C	320662	329662	Seminar in Biomolecular Networks IIE	Full year	2	7	TACHIBANA Makoto	
C	320663	329663	Seminar in Biomolecular Networks IIF	Full year	2	7	HIROSE Tetsuro	
C	320436	329436	Seminar in Integrated Biology IIA	Full year	2	7	YOSHIMORI Tamotsu	
C	320437	329437	Seminar in Integrated Biology IIB	Full year	2	7	MORITA Ritsuko	
C	320438	329438	Seminar in Integrated Biology IIC	Full year	2	7	IKEDA Fumiyo	
C	320439	329439	Seminar in Integrated Biology IID	Full year	2	7	KONDO Shigeru	
C	320440	329440	Seminar in Integrated Biology IIE	Full year	2	7	KAI Toshie	
C	320445	329445	Seminar in Organismal Biosystems IIA	Full year	2	7	ISHII Masaru	
C	320446	329446	Seminar in Organismal Biosystems IIB	Full year	2	7	NAGASAWA Takashi	
C	320447	329447	Seminar in Organismal Biosystems IIC	Full year	2	7	SASAKI Hiroshi	
C	320455	329455	Seminar in Neuroscience IIA	Full year	2	7	NISHIMOTO Shinji	
C	320457	329457	Seminar in Neuroscience IIC	Full year	2	7	YAGI Takeshi	
C	320458	329458	Seminar in Neuroscience IID	Full year	2	7	HORIE Takeo	
C	320460	329460	Seminar in Neuroscience IIF	Full year	2	7	KITAZAWA Shigeru	
C	320465	329465	Seminar in Biophysical Dynamics IIA	Full year	2	7	KURAHASHI Takashi	
C	320466	329466	Seminar in Biophysical Dynamics IIB	Full year	2	7	KIMURA Shin-ichi	
C	320468	329468	Seminar in Biophysical Dynamics IID	Full year	2	7	INOUE YASUSHI	
C	320478	329478	Seminar in Biomedical Engineering IIA	Full year	2	7	NAKAGAWA Atsushi	
C	320479	329479	Seminar in Biomedical Engineering IIB	Full year	2	7	TAKAKURA Nobuyuki	
C	320480	329480	Seminar in Biomedical Engineering IIC	Full year	2	7	HARA Eiji	
C	320483	329483	Seminar in Biomedical Engineering IIF	Full year	2	7	KURODA Syunichi	
C	320484	329484	Seminar in Biomedical Engineering IIS	Full year	2	7	Affiliated Labs, Cooperated Institutes, Adjunct Faculties	

※One of the above subjects with your supervisor's name and "Biomechanics I" are the required subjects for the 2nd year.

●If you cannot find your supervisor's name on the list, please register "Seminar in Biomedical Engineering IIS".

**Group D subjects (For 3rd~5th)**

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
D	320146	329146	Project Research II	Full year	3~5	2	TACHIBANA Makoto	<b>Required</b> (at least 2 credits / 3rd~5th year)
D	320147	329147	Project Research III	Full year	3~5	2	ISHIJIMA Akihiko	
D	320148	329148	Project Research IV	Full year	3~5	2	TAKASHIMA Seiji	
D	320149	329149	Project Research V	Full year	3~5	2	FUKAGAWA Tatsuo	
D	320150	329150	Project Research VI	Full year	3~5	2	KAI Toshie	
D	320151	329151	Project Research VII	Full year	3~5	2	HIROSE Tetsuro	
D	320152	329152	Project Research VIII	Full year	3~5	2	YOSHIMORI Tamotsu	
D	320154	329154	Project Research X	Full year	3~5	2	IKEDA Fumiyo	
D	320155	329155	Project Research XI	Full year	3~5	2	KONDO Shigeru	
D	320156	329156	Project Research XII	Full year	3~5	2	ISHII Masaru	
D	320157	329157	Project Research XIII	Full year	3~5	2	NAGASAWA Takashi	
D	320158	329158	Project Research XIV	Full year	3~5	2	SASAKI Hiroshi	
D	320159	329159	Project Research XV	Full year	3~5	2	TSUMAKI Noriyuki	
D	320160	329160	Project Research XVI	Full year	3~5	2	NISHIMOTO Shinji	
D	320161	329161	Project Research XVII	Full year	3~5	2	UEDA Masahiro	
D	320162	329162	Project Research XVIII	Full year	3~5	2	YAGI Takeshi	
D	320163	329163	Project Research XIX	Full year	3~5	2	HORIE Takeo	
D	320165	329165	Project Research XXI	Full year	3~5	2	KURAHASHI Takashi	
D	320166	329166	Project Research XXII	Full year	3~5	2	KIMURA Shin-ichi	
D	320167	329167	Project Research XXIII	Full year	3~5	2	KITAZAWA Shigeru	
D	320168	329168	Project Research XXIV	Full year	3~5	2	INOUE Yasushi	
D	320169	329169	Project Research XXV	Full year	3~5	2	NAKAGAWA Atsushi	
D	320170	329170	Project Research XXVI	Full year	3~5	2	TAKAKURA Nobuyuki	
D	320171	329171	Project Research XXVII	Full year	3~5	2	HARA Eiji	
D	320174	329174	Project Research XXX	Full year	3~5	2	KURODA Syunichi	
D	320208	329208	Project Research XXXI	Full year	3~5	2	OKAMOTO koji	
D	320216	329216	Project Research S	Full year	3~5	2	Affiliated Labs, Cooperated Institutes, Adjunct Faculties	

※To fulfill the requirement for Group D project research (lab rotations) , you are required to conduct a research in a host lab other than your home lab during 3rd-5th year. If you conduct a research at...

1. Laboratory in FBS

=>Register one of the above subjects with a name of your supervisor of your "host lab."

2. Laboratory other than FBS, internship, etc.

=>Register one of the above subjects with a name of your supervisor of your "home lab."

※If you cannot find your supervisor's name on the list, please register "Project Research S".

For the detail of Group D project research, please refer to the next page>>

## ■Group D project research (lab rotations)

### I. Philosophy

To promote interdisciplinary research and arm students with different bioscientific perspectives, students spend set periods conducting research in a host lab other than their own during the start of their third year.

### II. Format

Project Research will typically be of type A described below; however, type B is optional depending on the particular needs of each lab and individual student.

#### **Type A: The student participates in research in a core / affiliated lab, and credit is approved by the host academic staff.**

1. Participation in regular daily research in a different lab
2. Participation in research activities such as seminars, colloquiums, journal clubs, etc. in a different lab

\*Participation in daily research is for roughly two weeks in total.

\*Participation in research activities is generally once per week for roughly eight weeks. Preferably, the student will also be given an opportunity to give a presentation.

#### **Type B (other): Approval of credits by the student's supervisor.**

Credits may be approved by the supervisor if they agree that the student in question has participated in research in a different lab.

Acceptable examples:

1. Participation in a practical experimentation course or short-term intensive course in Japan or overseas

2. Lectures or journal clubs led by non-Japanese academic staff

- a. Special intensive courses taught by non-Japanese academic staff

\*The student, who has already taken a special intensive course taught by a non-Japanese academic staff member, takes a different intensive course by a non-Japanese academic staff member.

- b. Journal clubs led by non-Japanese academic staff

\*A non-Japanese academic staff member not conducting a special intensive course leads a journal club at the student's request, and the student participates in the said journal club (course).

- c. Other

3. Research participation in a lab in Japan or overseas

4. Internship at a company



**Group E subjects (For 3rd~5th)**

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
E	320177	329177	Advanced Seminar in Nanobiology C	Full year	3~5	8	ISHIJIMA Akihiko	Required (at least 8 credits / 3rd~5th year)
E	320340	329340	Advanced Seminar in Nanobiology D	Full year	3~5	8	UEDA Masahiro	
E	320178	329178	Advanced Seminar in Biomolecular Networks A	Full year	3~5	8	TAKASHIMA Seiji	
E	320179	329179	Advanced Seminar in Biomolecular Networks B	Full year	3~5	8	FUKAGAWA Tatsuo	
E	320180	329180	Advanced Seminar in Biomolecular Networks C	Full year	3~5	8	OKAMOTO koji	
E	320181	329181	Advanced Seminar in Biomolecular Networks D	Full year	3~5	8	HIROSE Tetsuro	
E	320228	329228	Advanced Seminar in Biomolecular Networks E	Full year	3~5	8	TACHIBANA Makoto	
E	320182	329182	Advanced Seminar in Integrated Biology A	Full year	3~5	8	YOSHIMORI Tamotsu	
E	320184	329184	Advanced Seminar in Integrated Biology C	Full year	3~5	8	IKEDA Fumiyo	
E	320185	329185	Advanced Seminar in Integrated Biology D	Full year	3~5	8	KONDO Shigeru	
E	320335	329335	Advanced Seminar in Integrated Biology E	Full year	3~5	8	KAI Toshie	
E	320186	329186	Advanced Seminar in Organismal Biosystems A	Full year	3~5	8	ISHII Masaru	
E	320187	329187	Advanced Seminar in Organismal Biosystems B	Full year	3~5	8	NAGASAWA Takashi	
E	320188	329188	Advanced Seminar in Organismal Biosystems C	Full year	3~5	8	SASAKI Hiroshi	
E	320189	329189	Advanced Seminar in Organismal Biosystems D	Full year	3~5	8	TSUMAKI Noriyuki	
E	320190	329190	Advanced Seminar in Neuroscience A	Full year	3~5	8	NISHIMOTO Shinji	
E	320192	329192	Advanced Seminar in Neuroscience C	Full year	3~5	8	YAGI Takeshi	
E	320193	329193	Advanced Seminar in Neuroscience D	Full year	3~5	8	HORIE Takeo	
E	320223	329223	Advanced Seminar in Neuroscience F	Full year	3~5	8	KITAZAWA Shigeru	
E	320195	329195	Advanced Seminar in Biophysical Dynamics A	Full year	3~5	8	KURAHASHI Takashi	
E	320196	329196	Advanced Seminar in Biophysical Dynamics B	Full year	3~5	8	KIMURA Shin-ichi	
E	320198	329198	Advanced Seminar in Biophysical Dynamics D	Full year	3~5	8	INOUE YASUSHI	
E	320199	329199	Advanced Seminar in Biomedical Engineering A	Full year	3~5	8	NAKAGAWA Atsushi	
E	320200	329200	Advanced Seminar in Biomedical Engineering B	Full year	3~5	8	TAKAKURA Nobuyuki	
E	320201	329201	Advanced Seminar in Biomedical Engineering C	Full year	3~5	8	HARA Eiji	
E	320204	329204	Advanced Seminar in Biomedical Engineering F	Full year	3~5	8	KURODA Syunichi	
E	320217	329217	Advanced Seminar in Biomedical Engineering S	Full year	3~5	8	Affiliated Labs, Cooperated Institutes, Adjunct Faculties	

※One of the above subjects with your supervisor's name is the required subjects for 3rd-5th year

●If you cannot find your supervisor's name on the list, please register "Advanced Seminar in Biomedical Engineering S".

<Credit requirements for 3rd-5th year>

At least 2 credits from Group D and 8 credits from Group E