

2021

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
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	
Group E	Research Subjects	3-5	8 credits			

Group		Subject Code	Subject Name	Semester	Language	Year	Credit	Lecturer	
A	Lecture	320001	Introduction to Physics I	Spring	Japanese	1	2	KIMURA Shin-ichi	
A	Lecture	canceled 320003	Introduction to Mathematics I	Spring	Japanese	1	2	KIMURA Shin-ichi	
A	Lecture	320523	Protein Structure and Chemistry	Spring	Japanese	1	1	MIZUGUCHI Kenji	
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	At least 2 credits during two years
A	ALA	328004	Introduction to Biomolecular Networks I	Spring	Japanese	1・2	0.5	Hiraoka Yasushi	
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	NAKANO TORU	
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	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	328020	Introduction to Neuroscience II	Spring	Japanese	1・2	0.5	FUJITA Ichiro	
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	329003	Introduction to Nanobiology III	Fall	English	1・2	0.5	YANAGIDA Toshio	
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	329011	Introduction to Integrated Biology II	Fall	English	1・2	0.5	YAGI Takeshi	
A	AGL	329013	Introduction to Integrated Biology IV	Fall	English	1・2	0.5	YOSHIMORI Tamotsu	
A	AGL	329015	Introduction to Organismal Biosystems I	Fall	English	1・2	0.5	TSUMAKI Noriyuki	
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	329021	Introduction to Neuroscience III	Fall	English	1・2	0.5	YAMAMOTO Nobuhiko	
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

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
B	320345	329345	Nanobiology IA	Full year	1	4	YANAGIDA Toshio	※Chose your lab 4 credits / 1st year
B	320347	329347	Nanobiology IC	Full year	1	4	Fukuoka Hajime	
B	320348	329348	Nanobiology ID	Full year	1	4	UEDA Masahiro	
B	320353	329353	Biomolecular Networks IA	Full year	1	4	TSUKAMOTO Osamu	
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	320356	329356	Biomolecular Networks ID	Full year	1	4	ASAKAWA HARUHIKO	
B	320361	329361	Integrated Biology IA	Full year	1	4	HAMASAKI Maho	
B	320362	329362	Integrated Biology IB	Full year	1	4	NAKANO TORU	
B	320363	329363	Integrated Biology IC	Full year	1	4	YAGI Takeshi	
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	TAMURA Hiroshi	
B	320382	329382	Neuroscience ID	Full year	1	4	SHIRASAKI Ryuichi	
B	320384	329384	Neuroscience IF	Full year	1	4	Nakano Tamami	
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	Affiliates,Cooperation Program,Non- residentProfessors	
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	320512	329512	Biomechanics I	Full year	1	1	Sub supervisor	required
B	320078	320078	Special Lectures I	Fall~Winter	1・2	1	To be assigned	elective
B	320079	320079	Special Lectures II	Fall~Winter	1・2	1	To be assigned	
B	320080	320080	Special Lectures III	Fall~Winter	1・2	1	Canceled	
B	320081	320081	Special Lectures IV	Fall~Winter	1・2	1	To be assigned	
B	320082	320082	Special Lectures V	Fall~Winter	1・2	1	Canceled	
B	320205	320205	Special Lectures VI	Fall~Winter	1・2	1	To be assigned	
B	320206	320206	Special Lectures VII	Fall~Winter	1・2	1	Canceled	
B	320207	320207	Special Lectures VIII	Fall~Winter	1・2	1	Canceled	

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
B	320349	329349	Nanobiology IIA	Full year	2	4	YANAGIDA Toshio	※Chose your lab 4 credits / 2nd year
B	320351	329351	Nanobiology IIC	Full year	2	4	Ishijima Akihiko	
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	320360	329360	Biomolecular Networks IID	Full year	2	4	Hiraoka Yasushi	
B	320366	329366	Integrated Biology IIA	Full year	2	4	YOSHIMORI Tamotsu	
B	320367	329367	Integrated Biology IIB	Full year	2	4	NAKANO TORU	
B	320368	329368	Integrated Biology IIC	Full year	2	4	YAGI Takeshi	
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	FUJITA Ichiro	
B	320388	329388	Neuroscience IID	Full year	2	4	YAMAMOTO Nobuhiko	
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- residentProfessors	
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	320513	329513	Biomechanics II	Full year	2	1	Sub supervisor	required
B	320078	320078	Special Lectures I	Fall~Winter	1・2	1	To be assigned	elective
B	320079	320079	Special Lectures II	Fall~Winter	1・2	1	To be assigned	
B	320080	320080	Special Lectures III	Fall~Winter	1・2	1	Canceled	
B	320081	320081	Special Lectures IV	Fall~Winter	1・2	1	To be assigned	
B	320082	320082	Special Lectures V	Fall~Winter	1・2	1	Canceled	
B	320205	320205	Special Lectures VI	Fall~Winter	1・2	1	To be assigned	
B	320206	320206	Special Lectures VII	Fall~Winter	1・2	1	Canceled	
B	320207	320207	Special Lectures VIII	Fall~Winter	1・2	1	Canceled	

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
C	320415	329415	Seminar in Nanobiology IA	Full year	1	7	YANAGIDA Toshio	Chose your lab 7 credits / 1st year
C	320417	329417	Seminar in Nanobiology IC	Full year	1	7	Fukuoka Hajime	
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	TSUKAMOTO Osamu	
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	320426	329426	Seminar in Biomolecular Networks ID	Full year	1	7	ASAKAWA HARUHIKO	
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	NAKANO TORU	
C	320433	329433	Seminar in Integrated Biology IC	Full year	1	7	KANEKO Ryosuke	
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	TAMURA Hiroshi	
C	320452	329452	Seminar in Neuroscience ID	Full year	1	7	SHIRASAKI Ryuichi	
C	320454	329454	Seminar in Neuroscience IF	Full year	1	7	Nakano Tamami	
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	Affiliates,Cooperation Program,Non- residentProfessors	
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	

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
C	320419	329419	Seminar in Nanobiology IIA	Full year	2	7	YANAGIDA Toshio	Chose your lab 7 credits / 2nd year
C	320421	329421	Seminar in Nanobiology IIC	Full year	2	7	Ishijima Akihiko	
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	320430	329430	Seminar in Biomolecular Networks IID	Full year	2	7	Hiraoka Yasushi	
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	NAKANO TORU	
C	320438	329438	Seminar in Integrated Biology IIC	Full year	2	7	YAGI Takeshi	
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	FUJITA Ichiro	
C	320458	329458	Seminar in Neuroscience IID	Full year	2	7	YAMAMOTO Nobuhiko	
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	Affiliates,Cooperation Program,Non- residentProfessors	
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	

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer
	Spring	Fall					
D	320145	329145	Project Research I	Full year	3~5	2	YANAGIDA Toshio
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	Hiraoka Yasushi
D	320152	329152	Project Research VIII	Full year	3~5	2	YOSHIMORI Tamotsu
D	320153	329153	Project Research IX	Full year	3~5	2	NAKANO TORU
D	320154	329154	Project Research X	Full year	3~5	2	YAGI Takeshi
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	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	FUJITA Ichiro
D	320163	329163	Project Research XIX	Full year	3~5	2	YAMAMOTO Nobuhiko
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 ResearchS	Full year	3~5	2	Affiliates,Cooperation Program, Non-residentProffessors

Group	Subject Code		Subject Name	Semester	Year	Credit	Lecturer	
	Spring	Fall						
E	320175	329175	Advanced Seminar in Nanobiology A	Full year	3~5	8	YANAGIDA Toshio	Chose your lab 8 credits
E	320177	329177	Advanced Seminar in Nanobiology C	Full year	3~5	8	Ishijima Akihiko	
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	Hiraoka Yasushi	
E	320182	329182	Advanced Seminar in Integrated Biology A	Full year	3~5	8	YOSHIMORI Tamotsu	
E	320183	329183	Advanced Seminar in Integrated Biology B	Full year	3~5	8	NAKANO TORU	
E	320184	329184	Advanced Seminar in Integrated Biology C	Full year	3~5	8	YAGI Takeshi	
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	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	FUJITA Ichiro	
E	320193	329193	Advanced Seminar in Neuroscience D	Full year	3~5	8	YAMAMOTO Nobuhiko	
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	Affiliates,Cooperation Program, Non-residentProfessors	