

Course List for 2016 (Tentative)

Undergraduate Sandwich Program

As of October 31, 2015

*The contents of this list might be changed without notice.

No.	College	Department	Term	Medium of Instruction	Course Title(English)	Credit	Eligible Applicants	Class Duration	Course Type
1	College of Engineering	Department of Mechanical Engineering	Fall Semester	English	Advanced course on Mechanical Engineering	2	3rd year	90 min	Lecture
2	College of Engineering	Department of Mechanical Engineering	Spring Semester	English	Introduction to Energy and power source	2	3rd year	90 min	Lecture
3	College of Engineering	Department of Mechanical Engineering	Fall Semester	English	Micro-fluid System for biomedical engineering	2	4th year	90 min	Lecture
4	College of Engineering	Department of Mechanical Engineering	Fall Semester	English/Japanese	Seminar on Mechanical Engineering 1	2	3rd year	90 min	Lecture
5	College of Engineering	Department of Mechanical Engineering	Spring Semester	English	The C Language for Mechanical Engineering	2	3rd year	90 min	Lecture
6	College of Engineering	Department of Engineering Science and Mechanics	Spring Semester	English/Japanese	Advanced Laboratory Exercises for Engineering Science 1	1	3rd year	135 min	Exercise
7	College of Engineering	Department of Engineering Science and Mechanics	Fall Semester	English/Japanese	Advanced Laboratory Exercises for Engineering Science 2	1	3rd year	135 min	Exercise
8	College of Engineering	Department of Engineering Science and Mechanics	Spring Semester	English/Japanese	Fluid Mechanics	2	4th year	90 min	Lecture
9	College of Engineering	Department of Engineering Science and Mechanics	Spring Semester	English	Mechanics of Materials Exercises	2	4th year	90 min	Lecture
10	College of Engineering	Department of Engineering Science and Mechanics	Fall Semester	English/Japanese	Robotics	2	4th year	90 min	Lecture
11	College of Engineering	Department of Engineering Science and Mechanics	Fall Semester	English/Japanese	Seminar on Mechanical Engineering	2	3rd year	90 min	Exercise

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Undergraduate Sandwich Program

As of October 31, 2015

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12	College of Engineering	Department of Materials Science and Engineering	Fall Semester	English/Japanese	Introduction to Computational Material Science	2	1st year	90 min	Lecture/Exercise
13	College of Engineering	Department of Materials Science and Engineering	Fall Semester	English/Japanese	Materials Science 2	2	3rd year	90 min	Lecture
14	College of Engineering	Department of Materials Science and Engineering	Spring Semester	English/Japanese	Nuclear Science Engineering	2	4th year	90 min	Lecture
15	College of Engineering	Department of Materials Science and Engineering	Fall Semester	English/Japanese	Reliability Engineering	2	4th year	90 min	Lecture
16	College of Engineering	Department of Materials Science and Engineering	Spring Semester	English/Japanese	Semiconductor Materials	2	3rd year	90 min	Lecture
17	College of Engineering	Department of Materials Science and Engineering	Spring Semester	English/Japanese	Surface Treatment	2	3rd year	90 min	Lecture
18	College of Engineering	Department of Applied Chemistry	Spring Semester	English	Analytical Chemistry1	2	2nd year	90 min	Lecture
19	College of Engineering	Department of Applied Chemistry	Spring Semester	English	Analytical Chemistry2	2	3rd year	90 min	Lecture
20	College of Engineering	Department of Applied Chemistry	Fall Semester	English	Interface Chemistry	2	3rd year	90 min	Lecture
21	College of Engineering	Department of Applied Chemistry	Fall Semester	English	Introduction to Chemical Biology	2	3rd year	90 min	Lecture
22	College of Engineering	Department of Applied Chemistry	Fall Semester	English/Japanese	Laboratory Course of Physical Chemistry	2	3rd year	360 min	Experiment

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Undergraduate Sandwich Program

As of October 31, 2015

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23	College of Engineering	Department of Electrical Engineering	Spring Semester	English/Japanese	Applied Mathematics	2	3rd year	180 min	Lecture
24	College of Engineering	Department of Electrical Engineering	Fall Semester	English/Japanese	Electric Measurements	2	2nd year	90 min	Lecture
25	College of Engineering	Department of Electrical Engineering	Fall Semester	English/Japanese	Electrical Engineering Seminar	1	3rd year	90 min	Seminar
26	College of Engineering	Department of Electrical Engineering	Spring Semester	English	Electromagnetism 3	2	2nd year	90 min	Lecture
27	College of Engineering	Department of Electrical Engineering	Fall Semester	English/Japanese	Engineering Practice 1	2	1st year	270 min	Exercise
28	College of Engineering	Department of Electrical Engineering	Fall Semester	English/Japanese	Engineering Practice 2	2	2nd year	180 min	Exercise
29	College of Engineering	Department of Electrical Engineering	Spring Semester	English/Japanese	Mechatoronics	2	4th year	90 min	Lecture
30	College of Engineering	Department of Electrical Engineering	Spring Semester	English	Power Electronics	2	3rd year	90 min	Lecture
31	College of Engineering	Department of Electrical Engineering	Fall Semester	English	Vision and lighting	2	Any	180 min	Lecture

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Undergraduate Sandwich Program

As of October 31, 2015

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32	College of Engineering	Department of Communications Engineering	Spring Semester	English	Fabrication Practice 1	1	1st year	180 min	Experiment
33	College of Engineering	Department of Communications Engineering	Fall Semester	English	Fabrication Practice 2	1	1st year	180 min	Experiment
34	College of Engineering	Department of Communications Engineering	Fall Semester	English	Introduction to Communication Engineering 2	1	3rd year	90 min	Lecture
35	College of Engineering	Department of Communications Engineering	Spring Semester	English	Introduction to Communication Engineering1	1	3rd year	90 min	Lecture
36	College of Engineering	Department of Communications Engineering	Fall Semester	English/Japanese	Seminar on Communication Engineering	1	3rd year	90 min	Lecture/Exercise
37	College of Engineering	Department of Communications Engineering	Spring Semester	English	Software Programming 1	1	1st year	180 min	Exercise
38	College of Engineering	Department of Electronic Engineering	Spring Semester	English	Biosensors	2	3rd year	90 min	Lecture
39	College of Engineering	Department of Electronic Engineering	Fall Semester	English	Electronic materials	2	3rd year	90 min	Lecture
40	College of Engineering	Department of Electronic Engineering	Spring Semester	English/Japanese	Experiments in Electronic Engineering Course 1	2	3rd year	180 min	Experiment
41	College of Engineering	Department of Electronic Engineering	Fall Semester	English/Japanese	Experiments in Electronic Engineering Course 2	2	3rd year	180 min	Experiment
42	College of Engineering	Department of Electronic Engineering	Spring Semester	English	Optoelectronics	2	3rd year	90 min	Lecture
43	College of Engineering	Department of Electronic Engineering	Fall Semester	English	Semiconductor Devices	2	3rd year	90 min	Lecture

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Undergraduate Sandwich Program

As of October 31, 2015

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44	College of Engineering	Department of Civil Engineering	Spring Semester	English/Japanese	Geographic Information Systems	2	3rd year	90 min	Lecture
45	College of Engineering	Department of Civil Engineering	Fall Semester	English/Japanese	Hydro Engineering	2	3rd year	90 min	Lecture
46	College of Engineering	Department of Civil Engineering	Spring Semester	English/Japanese	Surveying Practice 1	2	2nd year	180 min	Practicum
47	College of Engineering	Department of Civil Engineering	Fall Semester	English/Japanese	Surveying Practice 2	2	2nd year	180 min	Practicum
48	College of Engineering	Department of Civil Engineering	Fall Semester	English/Japanese	Underground Facility Engineering	2	3rd year	90 min	Lecture
49	College of Engineering	Department of Civil Engineering	TBD	English	General Lectures of Civil Engineering	2	4th year	90 min	Lecture
50	College of Engineering	Department of Architecture	1st Quarter	English/Japanese	Architectural Design Studio-1	2	3rd year	270 min	Exercise
51	College of Engineering	Department of Architecture	2nd Quarter	English/Japanese	Architectural Design Studio-2	2	3rd year	270 min	Exercise
52	College of Engineering	Department of Architecture	3rd Quarter	English/Japanese	Architectural Design Studio-3	2	3rd year	270 min	Exercise
53	College of Engineering	Department of Architecture	4th Quarter	English/Japanese	Architectural Design Studio-4	2	3rd year	270 min	Exercise
54	College of Engineering	Department of Architecture	Spring Semester	English/Japanese	Architectural Design Studio-5	2	4th year	270 min	Exercise
55	College of Engineering	Department of Architecture	3rd Quarter	English/Japanese	Exercises in Urban Analysis	1	3rd year	270 min	Exercise

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Undergraduate Sandwich Program

As of October 31, 2015

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56	College of Engineering	Department of Architecture and Building Engineering	Spring Semester	English/Japanese	Architectural Design 1	3	2nd year	270 min	Drawing
57	College of Engineering	Department of Architecture and Building Engineering	Spring Semester	English/Japanese	Architectural Design 3-C	1	3rd year	180 min	Drawing
58	College of Engineering	Department of Architecture and Building Engineering	Spring Semester	English/Japanese	Architectural Design 3-D	1	3rd year	180 min	Drawing
59	College of Engineering	Department of Architecture and Building Engineering	Fall Semester	English/Japanese	Architecture and Building Engineering Seminar 2	2	3rd year	180 min	Seminar
60	College of Engineering	Department of Architecture and Building Engineering	Spring Semester	English/Japanese	Architectural Design 3	1	3rd year	180 min	Drawing
61	College of Engineering	Department of Architecture and Building Engineering	Spring Semester	English/Japanese	Architectural Design 3-A	1	3rd year	180 min	Drawing
62	College of Engineering	Department of Architecture and Building Engineering	Spring Semester	English/Japanese	Design & Drawing 3-B	1	3rd year	180 min	Drawing
63	College of Engineering	Department of Information Science and Engineering	Fall Semester	English/Japanese	Advanced Exercise on Computer and Information Science 2B	2	3rd year	180 min	Exercise
64	College of Engineering	Department of Information Science and Engineering	Spring Semester	English	Applied Mathematics	2	2nd year	90 min	Lecture
65	College of Engineering	Department of Information Science and Engineering	Spring Semester	English/Japanese	Fundamental Exercise on Computer and Information Engineering 1B	1	2nd year	90 min	Exercise
66	College of Engineering	Department of Information Science and Engineering	Spring Semester	English	Human Computer Interaction 1	2	2nd year	90 min	Lecture
67	College of Engineering	Department of Information Science and Engineering	Fall Semester	English	Operating Systems	2	2nd year	90 min	Lecture
68	College of Engineering	Department of Information Science and Engineering	Fall Semester	English	Principles of Programming Languages	2	2nd year	90 min	Lecture

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Undergraduate Sandwich Program

As of October 31, 2015

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69	College of Systems Engineering and Science	Department of Bioscience and Engineering	Fall Semester	English	Advanced Bioscience	2	3rd year	90 min	Experiment
70	College of Systems Engineering and Science	Department of Bioscience and Engineering	Fall Semester	English	Applied Bioscience	2	3rd year	90 min	Experiment
71	College of Systems Engineering and Science	Department of Bioscience and Engineering	Spring Semester	English	Assistive Technologies	2	3rd year	90 min	Lecture
72	College of Systems Engineering and Science	Department of Bioscience and Engineering	Spring Semester	English	Basic Biological experiments	2	2nd to 4th year	90 min	Experiment
73	College of Systems Engineering and Science	Department of Bioscience and Engineering	Spring Semester	English	Biological Measurements	2	2nd year	90 min	Lecture
74	College of Systems Engineering and Science	Department of Bioscience and Engineering	Fall Semester	English/Japanese	Practice on CAD/CAM	2	2nd year	180 min	Experiment
75	College of Systems Engineering and Science	Department of Electronic Information Systems	Spring Semester	English	Computer Simulation	2	3rd year	90 min	Lecture
76	College of Systems Engineering and Science	Department of Electronic Information Systems	Fall Semester	English	Control Systems	2	3rd year	90 min	Lecture
77	College of Systems Engineering and Science	Department of Electronic Information Systems	Spring Semester	English	Information Communication Technology	2	3rd year	90 min	Lecture
78	College of Systems Engineering and Science	Department of Electronic Information Systems	Fall Semester	English	Introduction to Embedded Systems	2	2nd year	90 min	Lecture
79	College of Systems Engineering and Science	Department of Electronic Information Systems	Fall Semester	English	Programming Language Processor	2	3rd year	90 min	Lecture
80	College of Systems Engineering and Science	Department of Electronic Information Systems	Spring Semester	English	Recent Trends on Electronic Systems	2	2nd year	90 min	Lecture
81	College of Systems Engineering and Science	Department of Electronic Information Systems	Spring Semester	English	Recent Trends on Information Systems	2	2nd year	90 min	Lecture

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Undergraduate Sandwich Program

As of October 31, 2015

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No.	College	Department	Term	Medium of Instruction	Course Title(English)	Credit	Eligible Applicants	Class Duration	Course Type
82	College of Systems Engineering and Science	Department of Machinery and Control Systems	Spring Semester	English	Automotive Engineering	2	2nd year	90 min	Lecture
83	College of Systems Engineering and Science	Department of Machinery and Control Systems	Spring Semester	English	Control Engineering II	2	3rd year	90 min	Lecture
84	College of Systems Engineering and Science	Department of Machinery and Control Systems	Fall Semester (Intensive class)	English/Japanese	Exercises in Inventive and Creative Design	1	3rd year	90 min	Exercise
85	College of Systems Engineering and Science	Department of Machinery and Control Systems	Fall Semester (Intensive class)	English/Japanese	Inventive and Creative Design	2	3rd year	90 min	Lecture
86	College of Systems Engineering and Science	Department of Machinery and Control Systems	Fall Semester	English	Machinery System Seminar	2	3rd year	90 min	Lecture
87	College of Systems Engineering and Science	Department of Machinery and Control Systems	Spring Semester	English	Mechatronics I	2	3rd year	90 min	Lecture
88	College of Systems Engineering and Science	Department of Machinery and Control Systems	Fall Semester	English	Physics II: Electricity and Magnetism	2	2nd year	90 min	Lecture
89	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Spring Semester	English	Basic Environmental Studies in English	2	2nd year	90 min	Lecture
90	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Spring Semester	English	Environmental Field Survey I	1	3rd year	90 min	Practicum
91	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Fall Semester	English	Environmental Field Survey II	1	3rd year	90 min	Practicum
92	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Spring Semester	English	Environmental Land Use Planning	2	3rd year	90 min	Lecture
93	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Fall Semester	English	Environmental Studies in English	2	2nd year	90 min	Lecture
94	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Spring Semester	English	Environmentally Sustainable Engineering I	2	3rd year	90 min	Lecture
95	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Fall Semester	English	Environmentally Sustainable Engineering II	2	3rd year	90 min	Lecture
96	College of Systems Engineering and Science	Department of Architecture and Environment Systems	Fall Semester	English/Japanese	Land Use Planning Studio	1	2nd year	90 min	Exercise

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No.	College	Department	Term	Medium of Instruction	Course Title(English)	Credit	Eligible Applicants	Class Duration	Course Type
97	College of Systems Engineering and Science	Department of Mathematical Sciences	Fall Semester	English	Analysis 1	2	2nd year	90 min	Lecture
98	College of Systems Engineering and Science	Department of Mathematical Sciences	Fall Semester	English	Automata	2	2nd year	90 min	Lecture
99	College of Systems Engineering and Science	Department of Mathematical Sciences	Fall Semester	English	Complex Analysis	2	2nd year	90 min	Lecture
100	College of Systems Engineering and Science	Department of Mathematical Sciences	Spring Semester	English	Differential Equations	2	1st year	90 min	Lecture
101	College of Systems Engineering and Science	Department of Mathematical Sciences	Spring Semester	English	Fundamental Algebra	2	2nd year	90 min	Lecture
102	College of Systems Engineering and Science	Department of Mathematical Sciences	Spring Semester	English	Introduction to Numerical Analysis	2	2nd year	90 min	Lecture
103	College of Engineering and Design	Department of Engineering and Design	Spring Semester	English	Communication Design	2	2nd year	90 min	Lecture
104	College of Engineering and Design	Department of Engineering and Design	Spring Semester	English	Engineering Ethics	2	1st year	90 min	Lecture
105	College of Engineering and Design	Department of Engineering and Design	Fall Semester	English/Japanese	Practice on Computer Aided Engineering Systems	2	3rd year	180 min	Experiment/Exercise
106	College of Engineering and Design	Department of Engineering and Design	Spring Semester	English/Japanese	Practice on Design Project 1 (Product Design)	4	3rd year	270 min	Experiment/Exercise
107	College of Engineering and Design	Department of Engineering and Design	Fall Semester	English/Japanese	Practice on Design Project 7 (Production Systems Design)	4	3rd year	270 min	Experiment/Exercise
108	College of Engineering and Design	Department of Engineering and Design	Fall Semester	English/Japanese	Practice on Design Project 8 (Architecture and Urban Design)	4	3rd year	270 min	Experiment/Exercise
109	College of Engineering and Design	Department of Engineering and Design	Spring Semester	English/Japanese	Software Design	2	3rd year	90 min	Lecture

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No.	College	Department	Term	Medium of Instruction	Course Title(English)	Credit	Eligible Applicants	Class Duration	Course Type
110	General Education	Department of Machinery and Control Systems	Spring Semester/Fall Semester	English/Japanese	Japanese Language I	2	Any	90 min	Lecture
111	General Education	Department of Machinery and Control Systems	Spring Semester/Fall Semester	English/Japanese	Japanese Language II	2	Any	90 min	Lecture
112	General Education	Department of Machinery and Control Systems	Spring Semester/Fall Semester	English/Japanese	Japanese Language III	2	Any	90 min	Lecture
113	General Education	Mathmatics/Quantitative Reasoning	Spring Semester	English	Calculus1	2	1st year	90 min	Lecture
114	General Education	Mathmatics/Quantitative Reasoning	Fall Semester	English	Calculus2	2	1st year	90 min	Lecture
115	General Education	Mathmatics/Quantitative Reasoning	Spring Semester	English	Ordinary Differential Equations	2	2nd year	90 min	Lecture
116	General Education	Liberal Arts & Social Science	Spring Semester/Fall Semester	English	Information Accessibility	2	2nd year	90 min	Lecture