

**New Students Orientation in October 2024**  
**Graduate major in Human Centered Science and Biomedical Engineering**  
**Document release Sep. 27, 2024**

**The orientation material**

1.Study Guide of HCB 2024 Fall

日本語の学修案内は、大学WEBサイトで確認してください。

The Japanese version can be found on the Science Tokyo's website.

[https://www.titech.ac.jp/guide/guide\\_2024/graduate/](https://www.titech.ac.jp/guide/guide_2024/graduate/)

2.HCB Course Master's/Doctoral Midterm Presentation

3.The announcement of the courses of HCB that will be held in 3Q, 4Q, 3-4Q

1Q～2Q授業に関する案内は、2024年4月のオリエンテーション資料を参考にしてください。

For information on classes from 1Q to 2Q, please check the "April 2024 Student Orientation Materials" scheduled to be published in 2024.4.

4. HCB Internship・International Presentation

5-1.Lecture Information\_HCB.C451 (Japanese lectures)

5-2.Lecture Information\_HCB.C452 (Japanese lectures)

6.HCB Research Ethics Education Checklist

The requirements listed in this document include the contents of the ethics to be possessed as a Science Tokyo student.

Please acquire ethics through studying these items as soon as possible after enrollment.

7.Entrepreneurship Courses Orientation Info

8-1.Three Takuetsu Programs and Others info.(E)

8-2.Three Takuetsu Programs and Others info.(J)

9-1. Introduction to Science Tokyo Library (E)

9-2. Introduction to Science Tokyo Library (J)

10. Taking 600-level courses in the Master's degree program/ HCBコース内修博一貫プログラム案内

11. Financial support for doctoral students

12. Security Export Control

### ☆Common Core courses of Master's Degree Program(Required courses)

▷Research seminars		standard schedule	
★	◎ HCB Seminar F1	1st year fall (3-4Q)	A total of 8 credits
★	◎ HCB Seminar S1	1st year spring (1-2Q)	
★	◎ HCB Seminar F2	2nd year Fall (3-4Q)	
★	◎ HCB Seminar S2	2nd year Spring (1-2Q)	
▷Research-related courses		standard schedule	
★	◎ Research Planning for Master Thesis I	1st year spring (2Q)	A total of 2 credits
★	◎ Research Planning for Master Thesis II	2nd year Fall (4Q)	
▷Major courses		Q	
★	◎ Interdisciplinary Research Fundamentals I	1Q	A total of 4 credits
★	◎ Interdisciplinary Research Fundamentals II	2Q	
★	◎ Interdisciplinary Research Training	2Q	

### ☆Common Core courses of Master's Degree Program (Electives)

▷Major courses		Q	
★	○ Outline of Human Centered Science and Biomedical Engineering I	1Q	3 credits from restricted electives
★	○ Outline of Human Centered Science and Biomedical Engineering II	3Q	
★	○ Advanced Human Centered Science and Biomedical Engineering I	1Q	
★	○ Advanced Human Centered Science and Biomedical Engineering II	3Q	
★	○ Presentation for Science and Engineering I	1Q	
★	○ Presentation for Science and Engineering II	3Q	
★	○ International Writing	1Q	
★	○ International Presentation I ※	1-2Q, 3-4Q	
★	○ International Presentation II ※	1-2Q, 3-4Q	
	○ Off Campus Training I ※※	1-2Q, 3-4Q	
	○ Off Campus Training II ※※	1-2Q, 3-4Q	
	○ Off Campus Training III ※※	1-2Q, 3-4Q	
★	○ Fundamentals of Creative Design	1Q	
★	○ Advanced Biological Science and Engineering (Tsinghua University)※※	1-2Q	

◎:Required courses ○:Restricted electives ★:Course given in English

※Courses that is required submission of the report after the International conference etc., by the predetermined form (所定様式による報告が必要な科目)

※※ Courses that is required submission of the application before internship and the report after internship by the predetermined form (所定様式による申請及び終了後の報告が必要な科目)

※※※Only Tokyo Tech - Tsinghua University Joint Graduate Program-students can take this course (清華大プログラム生対象授業)

### ☆Common Core courses of Doctoral Degree Program(Required courses)

▷Research seminars		standard schedule	
★	◎ HCB Seminar F3	1st year Fall (3-4Q)	A total of 12 credits
★	◎ HCB Seminar S3	1st year Spring (1-2Q)	
★	◎ HCB Seminar F4	2nd year Fall (3-4Q)	
★	◎ HCB Seminar S4	2nd year Spring (1-2Q)	
★	◎ HCB Seminar F5	3rd year Fall (3-4Q)	
★	◎ HCB Seminar S5	3rd year Spring (1-2Q)	
▷Research-related courses		standard schedule	
★	◎ Research Planning for Doctoral Thesis I	1st year Spring (2Q)	A total of 4 credits
★	◎ Research Planning for Doctoral Thesis II	3rd year Fall 1Q~next Spring	

### ☆Common Core courses of Doctoral Degree Program (Electives)

▷Major courses		Q	
	○ Teaching methods for Human Centered Science and Biomedical Engineering	2Q	A total of 2 credits
★	○ HCB International Internship ※	1-2Q, 3-4Q	
	○ Research Working in Company ※※	1-2Q, 3-4Q	
	○ HCB off-Campus advanced training 1 ※	1-2Q, 3-4Q	
	○ HCB off-Campus advanced training 2 ※	1-2Q, 3-4Q	
★	○ International Presentation III ※※	1-2Q, 3-4Q	
★	○ International Presentation IV ※※	1-2Q, 3-4Q	
★	○ International Career Development Advanced	3-4Q	

◎:Required courses ○:Restricted electives ★:Course given in English

※ Courses that is required submission of the application befor internship and the report after internship by the predetermined form (所定様式による申請及び終了後の報告が必要な科目)

※※ Courses that is required submission of the report after the International conference etc., by the predetermined form (所定様式による報告が必要な科目)

For the syllabus of each couese, please refer to OCW (<http://www.ocw.titech.ac.jp/index.php?lang=EN>) .  
各科目のシラバスはOCW (<http://www.ocw.titech.ac.jp/>) を参照してください。