

Double Degree Program Guidebook

**(No.3) Double Degree Program Guidebook**

**2020**

**Computer and Information Sciences**

**Hosei University**

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## 1. Introduction

Hosei University is one of the oldest private universities in Japan and was established in 1880 as a law school and became a university in 1920 when the first university system was legislated by the government. 100 years ago, Hosei University accepted near 2,000 Chinese students, including Sun Jiaoren, Hu Hanmin, Wang Jinwei, Ju Zhen and Shen Junyu, who played very important roles in 1911 Revaluation Xinhai 100.

The university is constituted by 15 faculties and 30,000 students are studying. It has three campuses: Ichigaya at the center of Tokyo, Koganei at a suburb of Tokyo and Tama at a hill area of Tokyo. The Graduate School of Computer and Information Sciences (CIS) is located at Koganei Campus, about 20 minutes by train from Shinjuku.

In December 2010, Hosei University and RJB (Office of Pilot Software Engineering Schools of MOE in China, now The Pilot Software Engineering Schools Association) has agreed to provide the double degree program for students of national pilot software institutes in China as well as ones of CIS to promote collaborative and advanced education in software engineering emerging as the most important industry in the 21st century.

The double degree program enables you to obtain a master degree from Hosei University as well as another master degree from your national pilot software institute. To complete a two-year master degree of Hosei University, you need to study at Hosei University for one year as a regular student and another year at your national pilot software institute. (Please refer to Schedule section for details.) CIS requires 30 credits which include 18 credits for taking 9 lecture courses, 12 credits for 3 seminar courses, and a master thesis to obtain a master degree in science. Among the 18 credits for course learning, 10 credits are transferable from equivalent credits that you have obtained at your national pilot software institute in China. CIS provides enough courses which are taught in English to complete a master degree course. If you want, you can take courses taught in Japanese which cover broader area of computer science. Moreover, after receiving a master degree from Hosei University, a student can continue his/her PhD study if the student applies to CIS (or IIST / Integrated Institute of Science and Technology; cross major of CIS and Science & Engineering) and passes screening process.

There are 21 professors in CIS and 4 of them are Chinese professors. Their research areas cover from computer science to software engineering, artificial intelligence, computer graphics, and ubiquitous computing. A student will do research and write a master thesis under supervision of CIS professors during one year study in CIS.

## **2. Curriculum for Master's Degree**

The master's degree course consists of required and elective courses and a master's thesis. The courses are composed of lecture courses and seminar courses. Lecture courses are divided into 5 fields:

- 1) Computer Fundamentals
- 2) Information Systems
- 3) Media Science
- 4) Computer and Information Sciences for Globalization
- 5) Others

All lecture courses in the field of Computer and Information Sciences for Globalization, which is suited for the double degree program, are taught in English. All lecture courses in the 4th field (Computer and Information Sciences for Globalization) are taught in English. Some lectures in other fields are also taught in English. Students of the double degree program are allowed to take any lecture courses. In order to adapt to rapidly changing information technology, ad hoc lectures are also provided.

Seminar courses are related to your research. There are three compulsory courses:

- 1) Special Research for Computer and Information Sciences
- 2) Special Seminar for Computer and Information Sciences
- 3) CIS Global Seminar


The first two courses, which are taught by your research supervisor, are completed when your master's thesis is accepted. CIS Global seminar is a special course for not only double degree students but also for exchange students. It may include visiting leading companies and talking with their engineers and researchers.

### 3. Transferring Credits to HOSEI

Transfer credits are the course credits presented on an official transcript from your university in China. Hosei DDP faculty determines their equivalency to Hosei courses based on coursework and course requirements to the courses and curricula offered in Hosei. **You can transfer up to 10 credits from your university to Hosei.**

The lectures (See the list on 4.) that are provided from the Fall semester 2019 through to the Spring semester 2021 at CIS in Hosei University, are possible to transfer. The lecture courses (Credit Transferable: © on the list) can be applied by the “Application form for Credit Transfer”.

### 4. Requirements for Master’s Degree

The lecture courses are taught in either English or in Japanese. Lectures of  are taught in English. CIS Special Research and Seminar are taught in English by your research supervisor. CIS Global Seminar is also taught in English.

To obtain a master’s degree, you have to take:

- 1) 9 elective courses from lecture courses, which total 18 credits. (You may include ad hoc lecture courses.)
- 2) Special Research for CIS, Special Seminar for CIS and CIS Global Seminar, which are a total of 12 credits
- 3) A master’s thesis

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		科目名 Subject Name	セメ Semester	単 位 Credit	担当教員 Professor	備考 Note	Credit Transfer
Lecture Subjects (9 Subjects, over 18 Credits)	1 <sup>st</sup> Field / Computer Fundamentals	プログラミング言語処理系特論 Advanced Programming Language Processors	春/Spring 2020	2	佐々木晃/SASAKI Akira	Canceled lecture in 2021	◎
		コンピュータアーキテクチャ特論 Advanced Computer Architecture	春/Spring 2020	2	李亜民/LI Yamin	Canceled lecture in 2021	◎
		インターネットアーキテクチャ Internet Architecture	春/Spring 2021	2	廣津登志夫 /HIROTSU Toshio		◎
		デジタル情報の符号化と復号化 Principles of Digital Communication and Coding	春/Spring 2021	2	西島利尚/NISHIJIMA Toshihisa		◎
		関数型言語と圏論 Functional Languages and Category Theory	春/Spring 2020	2	雪田修一/YUKITA Shuichi	Canceled lecture in 2021	◎
		ソフトウェア検証と確証 Software Verification and Validation	秋 /Fall 2019	2	担当者未定/TBD	Abolition on 2020 and after	◎
		データベースプログラミング言語 Database Programming Languages	秋 /Fall 2019	2	日高宗一郎/HIDAKA Soichiro	Canceled lecture in 2020	◎
Lecture Subjects	2 <sup>nd</sup> Field	人工知能特論 Advanced AI	秋 /Fall 2020	2	黄潤和/HUANG Runhe	In English	◎
		進化システム論 Evolutionary Systems	春/Spring 2021	2	佐藤裕二/SATO Yuji		◎
		可視化特論 Advanced Visualization	春/Spring 2020	2	細部博史/HOSOBE Hiroshi	Canceled lecture in 2021	◎
		数理モデリング特論 Mathematical Modelling	秋 /Fall 2019	2	相島健助/AISHIMA Kensuke	Canceled lecture in 2020	◎

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		科目名 Subject Name	セメスター Semester	単位 Credit	担当教員 Professor	備考 Note	Credit Transfer
		データマイニング特論 Advanced Data Mining	春/Spring 2021	2	赤石美奈/AKAISHI Mina		◎
		オブジェクト指向言語 Object Oriented Language	春/Spring 2020	2	藤田悟/FUJITA Satoru	Canceled lecture in 2021	◎
		先端網とコンピューティング Advanced Networking and Computing	秋 /Fall 2020	2	馬建華/MA Jianhua	In English	◎
Lecture Subjects (9 Subjects, over 18 Credits)	3 <sup>rd</sup> Field / Media Science	線形システム特論 Advanced Linear System Theory	春/Spring 2020	2	小西克巳/KONISHI Katsumi	Canceled lecture in 2021	◎
		音声・言語処理特論 Speech and Language Processing	秋 /Fall 2019	2	伊藤克亘/ITOU Katunobu	Canceled lecture in 2020	◎
		多次元信号画像処理 Multi-Dimensional Signal and Image Processing	春/Spring 2021	2	花泉弘/HANAIZUMI Hiroshi	Canceled lecture in 2020	◎
		パターン認識特論 Advanced Pattern Recognition	春/Spring 2021	2	若原徹/WAKAHARA Toru	Canceled lecture in 2020	◎
		3次元映像技術特論 Advanced 3D Imaging	秋 /Fall 2020	2	小池崇文/KOIKE Takafumi		◎
		科学技術シミュレーション Computational Science and Engineering	秋 /Fall 2019	2	善甫康成/ZEMPO Yasunari	Canceled lecture in 2020	◎
Lecture Subjects (9)	4 <sup>th</sup> Field /	グローバル CIS 特別講義 1 Global CIS Special Lecture 1	秋 /Fall 2020	2	内田薫/UCHIDA Kaoru	In English	◎
		グローバル CIS 特別講義 2 Global CIS Special Lecture 2	秋 /Fall 2020	2	内田薫/UCHIDA Kaoru	In English	◎

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		科目名 Subject Name	セメ スター Semester	単 位 Credit	担当教員 Professor	備考 Note	Credit Transfer
		グローバル CIS 特別講義 3 Global CIS Special Lecture 3	春/Spring 2021	2	内田薫/UCHIDA Kaoru	In English	◎
		グローバル CIS 特別講義 4 Global CIS Special Lecture 4	春/Spring 2021	2	内田薫/UCHIDA Kaoru	In English	◎
		セキュアシステム開発のための CSP Communicating Sequential Processes for Secure System Development	秋 /Fall 2019	2	松井和人/MATSUI Kazuto	In English Canceled lecture in 2020	◎
		ビジネスアプリケーションシステム 開発 Business Application System Development	秋 /Fall 2020	2	渡辺正信 /WATANABE Masato	In English	◎
		Web システム開発 Web System Development	秋 /Fall 2020	2	小林郁夫 /KOBAYASHI Ikuo	In English	◎
		ソフトウェア要求仕様記述と分析の 技術 Software Requirements Analysis and Specification Techniques	秋 /Fall 2020	2	佐原伸/SAHARA Shin	In English	◎
		ソフトウェアプロセス及び品質保証 Software Process and Quality Assurance	秋 /Fall 2020	2	小池太/KOIKE Futoshi	In English	◎
Lecture Subjects (9 Subjects, over 18 Credits)	4 <sup>th</sup> Field / Computer and Information	企業システム構築のためのソフトウ ェア基盤 Software Architecture for Enterprise Systems	秋 /Fall 2020	2	山本学/YAMAMOTO Gaku 他/Others	In English	◎
		オブジェクト指向 WEB 設計 Object Oriented WEB Programming	春/Spring 2021	2	小林郁夫 /KOBAYASHI Ikuo	In English	◎
		ソフトウェア技術者の為の技術英語 の書き方 Technical Writing for Software Engineers	春/Spring 2021	2	藤野輝雄/FUJINO Teruo	In English	



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		科目名 Subject Name	セ ヌ Semester	単 位 Credit	担当教員 Professor	備考 Note	Credit Transfer
		論文の書き方と発表技術 Writing and Presentation for Thesis	秋 /Fall 2020	2	内田薫/UCHIDA Kaoru	In English	
		日本語理解 1 Japanese Comprehension 1	秋 /Fall 2020	2*	村松葉子 /MURAMATSU Yoko	Taught in Japanese for non-Japanese speaking Students	
		日本語理解 2 Japanese Comprehension 2	春/Spring 2021	2*	村松葉子 /MURAMATSU Yoko		
Lecture Subjects	5 <sup>th</sup> Field / Others	情報科学特別講義 1 (アルゴリズム とデータ構造) Special Lecture for Computer and Information Sciences 1 (Data Structures and Algorithms)	春/Spring 2021	2	坂本寛/SAKAMOTO Kan		◎
		情報科学特別講義 2 (画像認識特論) Special Lecture for Computer and Information Sciences 2 (Advanced Image processing)	春/Spring 2021	2	内田薫/UCHIDA Kaoru	In English	◎
		情報科学特別講義 3 (オペレーティ ングシステム) Special Lecture for Computer and Information Sciences 3 (Operating System)	春/Spring 2021	2	担当者未定/TBD	In English	◎
		情報科学特別講義 4 (知能メディア 処理) Special Lecture for Computer and Information Sciences 4 (Intelligent Media Processing)	秋 /Fall 2019	2	内田薫/UCHIDA Kaoru	In English Canceled lecture in 2020	◎
		情報科学特別講義 5 (音声・音楽処 理特論) Special Lecture for Computer and Information Sciences 5 (Voice and Acoustics)	春/Spring 2021	2	北原義典/KITAHARA Yoshinori		◎

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		科目名 Subject Name	セ ム ー ス Semester	単 位 Credit	担当教員 Professor	備考 Note	Credit Transfer
		情報科学特別講義 6 (テキストマイニング特論) Special Lecture for Computer and Information Sciences 6 (Text Mining)	秋 /Fall 2020	2	横野光/YOKONO Hikaru		◎
Seminars	Required Subjects	情報科学特別研究 1A Special Research for Computer and Information Sciences 1A	半期	1	各指導教員 /Supervisor		
		情報科学特別研究 1B Special Research for Computer and Information Sciences 1B	半期	2	各指導教員 /Supervisor		
		情報科学特別研究 2A Special Research for Computer and Information Sciences 2A	半期	1	各指導教員 /Supervisor		
		情報科学特別研究 2B Special Research for Computer and Information Sciences 2B	半期	2	各指導教員 /Supervisor		
		情報科学特別演習 1A Special Seminar for Computer and Information Sciences 1A	半期	1	各指導教員 /Supervisor		
		情報科学特別演習 1B Special Seminar for Computer and Information Sciences 1B	半期	1	各指導教員 /Supervisor		
		情報科学特別演習 2A Special Seminar for Computer and Information Sciences 2A	半期	1	各指導教員 /Supervisor		
		情報科学特別演習 2B Special Seminar for Computer and Information Sciences 2B	半期	1	各指導教員 /Supervisor		
More than 2 credits	情報科学オープンセミナー 1 Open Seminar for Computer and Information Sciences 1	春/Spring 2020	2	各教員/Temporary	Canceled lecture in 2021		
	情報科学オープンセミナー2 Open Seminar for Computer and Information Sciences 2	春/Spring 2021	2	各教員/Temporary			

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	科目名 Subject Name	セ ム Semester	単 位 Credit	担当教員 Professor	備考 Note	Credit Transfer
	CIS グローバルセミナー CIS Global Seminar	秋 /Fall 2020	2	内 田 薫 /UCHIDA Kaoru	In English	
論文 Thesis	修士論文 Thesis of Master Degree	半期	0	各指導教員 /Supervisor		

- \* “Japanese Comprehension 1” and “Japanese Comprehension 2” are available for foreign students in principle, however, credits these subjects cannot be counted into a total of 30 credits required for the course completion.

## 5. Research Areas

There are 4 research areas:

- 1) Computer Fundamentals
- 2) Information Systems
- 3) Media Science
- 4) Computer and Information Sciences for Globalization.

Areas 1, 2, and 3 are the major research targets of CIS, which cover the broad area of computer science and digital media. Five or six professors are assigned to each area.

The research area of Computer and Information Sciences for Globalization is a new area, targeting this double degree program. It covers software engineering and development.

### Research Area 1: Computer Fundamentals

Please refer to: <http://cis.k.hosei.ac.jp/gs/ddp/research/area1.html>

### Research Area 2: Information Systems

Please refer to: <http://cis.k.hosei.ac.jp/gs/ddp/research/area2.html>

### Research Area 3: Media Science

Please refer to: <http://cis.k.hosei.ac.jp/gs/ddp/research/area3.html>

### Research Area 4: Computer and Information Sciences for Globalization

Please refer to: <http://cis.k.hosei.ac.jp/gs/ddp/research/area4.html>

## 6. FAQ

Q1: How much does it cost to live for a student in Tokyo for one year?

A1: It depends on your budget and your personal preferences. Average living expenses, except tuition fees, will be about 1,200,000 - 1,500,000 JPY a year.

Q2: For the transferable 10 credits, what courses can be transferred to Hosei? And what courses will be offered by Hosei to get the other 10 credits?

A2: See “Transferring Credits to HOSEI” on page 5 and “Curriculum for Master’s Degree” on page 4.

Q3: When can I get the official documents from your university for the visa application?

A3: We will distribute admission set on early April by email to require the submission of applications. If you submit by early June, the earning of the Certificate of Eligibility (COE) expects in late July.

Q4: Regarding a master’s thesis, is it okay for students applying for one thesis to obtain two diplomas?

A4: In principle, it should be one thesis for one diploma. Each university evaluates separately each thesis.

Q5: What are the accommodations like?

A5: In principle, students are asked to arrange their accommodations on their own. Housing information is sent to you by email on early April.

## Double Degree Program

### 2020 Admission Application Schedule

✓ Please check the blank if you have already completed	Date & Special Note
<b>2019</b>	
Entrance Application Period	October –November 25、 2019
Receiving Notice of Acceptance	December 10, 2019
Administration fee (100,000JPY) payment period	December 10 – 31, 2019 (No refundable)
<b>2020</b>	
Admission Procedure documents from Hosei	Top of April, 2020
Receiving Application for Supervisor from Hosei	Top of April, 2020
Submission deadline for Supervisor Application	By Middle of May, 2020
Academic (tuition) fee payment of 300,000 JPY due	By Middle of May, 2020
Receiving Credit Transfer Application from Hosei	End of May, 2020 (By email)
Announcement of matching of your supervisor at Hosei	End of June, 2020 (By email)
Submission deadline for “Certificate of Eligibility” Application	By Middle of June, 2020
Submission deadline for Credit Transfer Application	By End of June, 2020
Receiving your COE from Japan, go to the Japanese embassy in your region to apply for “Student VISA”	Early August, 2020 <span style="color: red;">☞Please check with Japanese embassy in advance for the approximate time to issue your VISA!!</span>
Airport Pick-up service application	Middle of July, 2020 (By email) *If you desired

## 2020 DDP Academic Year Calendar (For Your Reference)

2020 DDP Academic Year Calendar (from September, 2020 to September, 2021)	
September 12 (SAT), 2020	Entrance Ceremony & Guidance
September TBD (TBD), 2020	Orientation
September 18 (FRI), 2020	Class Start for Fall Semester
September TBD (TBD) & October TBD (TBD), 2020	Health Checkup
Middle of October 2019	Koganei International Exchange Party
November 5 (THU)- November 8 (SUN) 2020	HOSEI festival
December 25 (FRI) 2020– January 7 (THU), 2021	Winter Holiday ※Classes resume on January 8 (FRI)
February 1 (MON), 2021	Mid-term Presentation of Master's Thesis (for M1, Doctoral students & DDP students)
February 3 (WED)-March 31 (WED), 2021	Spring Holiday
Early April 2021	Class Start for Spring Semester
Early April 2021	Health Checkup & Spring Orientation
Early July, 2021	Submission of Abstract
Middle of July, 2021	Submission of Master's Thesis
Middle of July, 2021	Presentation of Master's Thesis
Late July, 2021	Completion Ceremony for DDP
Middle of September, 2021	Degree Award (Diploma will be sent by EMS to you)