Double Degree Program Guidebook

2019

Computer and Information Sciences

Hosei University

Contents

1. Introduction

Hosei University is one of the oldest private universities 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 16 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 and passes screening process.

There are 22 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. A few lectures from the 1, 2, and 3 are 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. 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

◎List of courses in 2018

		Subject Name	Semester	Credit	Instructor
Lecture Subjects	1st Field	プログラミング言語処理系特論 Advanced Programming Language Processors	Fall 2018	2	Akira SASAKI
		コンピュータアーキテクチャ特論 Advanced Computer Architecture	Spring 2018	2	Yamin LI
		並列及び分散システム Parallel and Distributed Systems	Spring 2019	2	Yamin Li
		インターネットアーキテクチャ Internet Architecture	Spring 2018	2	Toshio HIROTSU
		仮想化技術特論 Virtualization Technologies	Spring 2019	2	Toshio HIROTSU
		高性能コンピューティング High Performance Computing	Spring 2018	2	TBD
		並列計算機アーキテクチャ Parallel Computer Architecture	Spring 2019	2	TBD
		ディジタル情報の符号化と復号化 Principles of Digital Communication and Coding	Fall 2018	2	Toshihisa NISHIJIMA
		関数型言語と圏論 Functional Languages and Category Theory	Spring 2018	2	Shuichi YUKITA
		高信頼ソフトウェア開発の形式工学手法	Fall	2	Shaoying LIU

		Subject Name	Semester	Credit	Instructor
Lecture Subjects		Formal Engineering Technologies for Dependable Software Development	2018		
		ソフトウェア検証と確証 Software Verification and Validation	Fall 2017	2	Shaoying LIU
		データベースプログラミング言語 Database Programming Languages	Fall 2018	2	Soichiro HIDAKA
	2nd Field	人工知能特論 Advanced AI	Spring 2018	2	Runhe HUANG
		機械翻訳:理論と実践 ※Class Canceled for Fall 2018 Machine Translation: Theory and Practice	Fall	2	TBD
		進化システム論 Evolutionary Systems	Spring 2018	2	Yuji SATO
		可視化特論 Advanced Visualization	Spring 2018	2	Hiroshi HOSOBE
		データマイニング特論 Advanced Data Mining	Spring 2018	2	Mina AKAISHI
		オブジェクト指向言語 Object Oriented Language	Spring 2018	2	Satoru FUJITA
		Web システム構築 Web Systems and Technologies	Fall 2017	2	Nguyen Ngoc BINH
		先端網とコンピューティング Advanced Networking and Computing	Fall 2018	2	Jianhua MA
	3rd Field	形状モデリング ※Class Canceled for Fall 2018 Geometric Modeling: Shape Design and Reconstruction	Spring	2	TBD
		メッシュ生成と形状処理 Mesh Generation and Geometry Processing in Graphics and Engineering	Spring 2019	2	TBD
		音声・言語処理特論 Speech and Language Processing	Spring 2018	2	Katsunobu ITOU
		多次元信号画像処理 Multi-Dimensional Signal and Image Processing	Spring 2018	2	Hiroshi HANAIZUMI

		Subject Name	Semester	Credit	Instructor
Lecture Subjects		パターン認識特論 Advanced Pattern Recognition	Spring 2018	2	Toru WAKAHARA
		3 次元映像技術特論 Advanced 3D Imaging	Fall 2018	2	Takafumi KOIKE
		科学技術シミュレーション Computational Science and Engineering	Fall 2018	2	Yasunari Zempo
	4th Field	グローバル CIS 特別講義 1 Global CIS Special Lecture 1	Fall 2018	2	Kaoru UCHIDA
		グローバル CIS 特別講義 2 Global CIS Special Lecture 2	Fall 2018	2	Nguyen Ngoc Binh
		グローバル CIS 特別講義 3 Global CIS Special Lecture 3	Spring 2018	2	Kaoru UCHIDA
		グローバル CIS 特別講義 4 Global CIS Special Lecture 4	Spring 2018	2	Kaoru UCHIDA
		セキュアシステム開発のための CSP Communicating Sequential Processes for Secure System Development	Fall 2018	2	Kazuto MATSUI
		Java によるビジネスアプリケーションシステム開発 Business Application System Development Using Java	Fall 2018	2	Masanobu WATANABE
		Rails 環境の WEB システム開発 Web System Development by Ruby on Rails	Fall 2018	2	Ikuo KOBAYASHI
		ソフトウェア要求仕様記述と分析の技術 Software Requirements Analysis and Specification Techniques	Fall 2018	2	Shin SAHARA
		ソフトウェアプロセス及び品質保証 Software Process and Quality Assurance	Fall 2018	2	Futoshi KOIKE
		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	Fall 2018	2	Gaku YAMAMOTO and others
		Ruby 言語によるオブジェクト指向 WEB 設計 Object Oriented WEB Programming Using Ruby	Spring 2018	2	Ikuo KOBAYASHI

		Subject Name	Semester	Credit	Instructor
		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	Spring 2018	2	Teruo FUJINO
Lecture Subjects		論文の書き方と発表技術 Writing and Presentation for Thesis	Fall 2018	2	Kaoru UCHIDA
		日本語理解 1 Japanese Comprehension 1	Fall 2018	2	Yoko MURAMATSU
		日本語理解 2 Japanese Comprehension 2	Spring 2018	2	Yoko MURAMATSU
	Other	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）	Spring 2018	2	Kan SAKAMOTO
		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）	Fall 2018	2	Nguyen Ngoc BINH
		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）	Spring 2018	2	Nguyen Ngoc BINH
		情報科学特別講義 4 （計算機設計構成論) Special Lecture for Computer and Information Sciences 4（Computer Architecture）	Spring 2019	2	TBD
		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）	Spring 2018	2	Yoshinori KITAHARA
		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)	Fall 2018	2	Hikaru YOKONO
		インターンシップ Internship	Fall 2018	2	Hiroshi HANAIZUMI
Seminars	Compulsory	情報科学特別研究 1 Special Research for Computer and Information Sciences 1	Full-year	3	Each Instructor

		Subject Name	Semester	Credit	Instructor
		情報科学特別研究 2 Special Research for Computer and Information Sciences 2	Full-year	3	Each Instructor
		情報科学特別演習 1 Special Seminar for Computer and Information Sciences 1	Full-year	2	Each Instructor
		情報科学特別演習 2 Special Seminar for Computer and Information Sciences 2	Full-year	2	Each Instructor
	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	Spring 2018	2	Each Instructor
		情報科学オープンセミナー2 Open Seminar for Computer and Information Sciences 2	Spring 2019	2	Each Instructor
		CIS　グローバルセミナー CIS Global Seminar	Fall 2018	2	K. UCHIDA and others
Thesis		修士論文（M2 のみ） Thesis of Master Degree (For 2nd year graduate students only)	Full-year	0	Each Instructor

4. Transferring Credits to HOSEI

Transfer credits are the course credits you have earned from your university in China, and you can apply for Credit Transfer application to transfer some of your credits to Hosei. Hosei DDP faculty determines your course credit equivalency to the Hosei courses based on coursework and course requirements. **You can transfer up to 10 credits from your university to Hosei. More information about Credit Transfer Application will be announced at the end of May, 2019.**

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 study 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 10 and "Curriculum for Master's Degree" on page 5.

Q3: What type of research guidance is given to students? How to know the professors' research details in order to choose a prospective supervisor in Hosei?

A3: See the attached "4. Graduate School of Computer and Information Science".

Q4: When and how should I pay the tuition fee? Do you accept separate payments?

A4: Tuition fees have to be fully paid through WU GlobalPay for Students by the due date.

Q5: When can I get the official documents from your university for the visa application?

A5: After paying the tuition fees, the documents necessary for the visa application will be delivered to you.

Q6: Regarding a master's thesis, is it okay for students applying for one thesis to obtain two diplomas?

A6: In principle, it is one thesis for one diploma. When you write two theses in the same language in order to obtain two diplomas, part of the theses should be different.

Q7: What are the accommodations like?

A7: In principle, students are asked to arrange their accommodations on their own. Details regarding housing will be sent to you by email after paying the tuition fees.

Double Degree Program
2019 Admission Application Schedule

✓	Please check the blank if you have already completed	Date & Special Note
	2018	
	Entrance Application Deadline	November 9, 2018
	Receiving Notice of Acceptance	Beginning of December, 2018
	Administration fee (100,000JPY) payment period	December 1－31, 2018 (Not refundable)
	2019	
	Receiving Admission Procedure documents and housing information from Hosei	April 1, 2019
	Receiving Application for Supervisor from Hosei	April 15, 2019
	Submission deadline for Supervisor Application	May 15, 2019
	Academic (tuition) fee payment of 300,000 JPY due date	May 15, 2019
	Receiving Credit Transfer Application from Hosei	Late May, 2019
	Announcement of matching of your supervisor at Hosei	Early June, 2019
	Submission deadline for "Certificate of Eligibility" Application	June 15, 2019 ☞Please submit it on time! Late submission might affect your VISA application process!!
	Submission deadline for Credit Transfer Application	June 30, 2019 ☞You must request academic transcripts from your university in China to transfer credits!
	Receiving your COE from Hosei. Go to the Japanese embassy in your region to apply for "Student VISA"	Early July, 2019 ☞Please check Japanese embassy in advance for the approximate time to issue your VISA!!
	Opening Ceremony & Orientation	**Middle of September, 2019**
	Instruction Begins	**Middle of September, 2019**

2018 DDP Academic Year Calendar (Only for your reference)

2018 DDP Academic Year Calendar (from September, 2018 to September, 2019)	
September 15 (SAT), 2018	Entrance Ceremony & Guidance
September 19 (WED), 2018	Orientation
September 20 (THU), 2018	X-lay examination
September 21 (FRI), 2018	Instruction begins
October 5 (FRI), 2018	Health Examination
Middle of October 2018	Koganei International Exchange Party
November 1 (THU)- November 4 (SUN) 2018	HOSEI festival
December 25(TUE) 2018– January 7(MON), 2019	Winter Holiday ※Classes resume on January 8 (TUE)
February 1 (Fri), 2019	Mid-term Presentation of Master's Thesis (for M1, Doctoral students & DDP students)
January 29(TUE)-March 31 (SUN), 2019	Spring Holiday
Early April 2019	Instruction begins
Early April 2019	Health checkup & Spring Orientation
Early July, 2019	Submission of Abstract
Middle of July, 2019	Submission of Master's Thesis
Middle of July, 2019	Presentation of Master's Thesis
Late July, 2019	Completion Ceremony for DDP