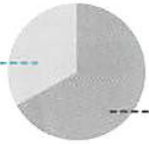# Overview

Master's course

You need to earn more than 18 credits from Major subjects in your department/course and more than 10 credits from DSP subjects listed on the other page, where DSP subjects are regarded as Related subjects in your department/course. In total, at least 30 credits are obligatory for graduation.

At least 30 credits in total

More than 10 credits from DSP subjects

More than 18 credits from Major subjects in your department/course

DSP Subjects provided by GSIS

Fundamentals of Data Sciences
Take more than 2 subjects (1 subject = 2 credits)

Subjects for Data Sciences
Take more than 1 subject from each category I, II, III (1 subject = 2 credits)

Training Subjects (1 subject = 1 credit)
Big Data Skill Up Training For those who are not so familiar with mathematical and statistical calculations using R and Python, please take this subject
Data Science Training Camp I, II ※Compulsory subject

[Option] Internship (1-2 credits)

Doctor's course

1 Advanced seminars I, II : Invited researchers give lectures on advanced topics of data sciences. (More than 2 credits)

2 Big data challenge: Project-based group learning with Japanese students using the real big data. (More than 2 credits)

High Light

Learning Japanese Language & Culture

The participants are highly encouraged to learn Japanese language and culture, because this is one of primary reasons for studying abroad.
"Japanese Language Program at Kawauchi campus for International Students and Scholars" offers you a wide variety of opportunities of learning.
Please see the guidance for registration ↓
http://www.he.tohoku.ac.jp/SJLE/JLPK/index-e.html

Master's Course Curriculum

	Fall Semester	Spring Semester
Fundamentals of Data Sciences Take more than 2 subjects (1 subject = 2 credits)		
Information Ethics		Information Ethics
Legal System in Information Society		Legal System in Information Society
Data Science Basic	Data Science Basic	
Subjects for Data Sciences Take more than 1 subject from each category I, II, III (1 subject = 2 credits)		
Data Sciences I - Sensing - Storage - Computing	Ultra-High Speed Information Processing Algorithms	Computer Structures
	Computer Architecture	Theory of Differential Equations
	Information and Communications Technology	
	Foundations of Software Science	
	Internet and its Security	
Data Sciences II - Analysis - Mining	Design and Analysis of Information Systems	Computer Vision
	Communication Science	Physical Fluctuomatics
	Probabilistic Models	Intelligent Systems Science
	Theory on Information Security	Intelligent Control Systems
	Spatial Information Analysis	Game Theory for Applied Economics
	CS Fundamentals (Intensive course)	IT Fundamentals (Intensive course)
Data Sciences III - Problem Solving - Design	Spatial Economics	Information Biology
		Mathematical Urban Modeling
		Applied Intelligence Software
		Biomodeling
		System Control Science
		Applied Data Sciences
Training Subjects (1 subject = 1 credit)		
Big Data Skill Up Training	Training of R and Python	
※Data Science Training Camp	Training Camp I (Spring Vacation)	Training Camp II (Summer Vacation)
[Option] Internship (1-2 credits)		

※Training camp I and II are compulsory subjects

Double Mentor System •

A student belongs to the other graduate school than GSIS is arranged to have double mentors, one is your supervisor and the other is a GSIS mentor related to your expertise, to help your interdisciplinary study of data sciences.

Main Mentor
(Your supervisor)

YOU

Secondary Mentor
(From GSIS)

Academic Calendar •

Fall Semester (Oct. 2016 - Mar. 2017)	
Class begins	Beginning of Oct.
DSP Orientation	Beginning of Oct.
Winter Vacation	End of Dec. - Beginning of Jan.
Class ends	Beginning of Feb.
Spring Vacation (Training Camp I)	Beginning of Feb. - Beginning of Apr.

Spring Semester (Apr. 2017 - Sep. 2017)	
Class begins	Beginning of Apr.
Class ends	Beginning of Aug.
Summer Vacation (Training Camp II)	Beginning of Aug. - End of Sep.

DSP Facebook

We have a "Group" page where you can communicate with your DSP friends. Feel free to utilize the page, chat with your friends, up your gourmet news, celebrate your friend's birthday, or etc. We will put our news on the page as well. Please visit ↓

[f] DSP Tohoku University [🔍]

DSP Admissions Office

c/o International Liaison Office

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GSIS

TOHOKU UNIVERSITY

Data Sciences Program Tohoku University

Development of Human Resource Creating Social, Life, and Environmental Foundations

Cooperating Graduate Schools:
Information Sciences (GSIS:Coordinator)
Life Sciences
Economics and Management
Engineering

Guidance 2016