

# Master's Program Subject and Completion Requirements 2017

## Department of Information Networking

Department of Information Networking				School hour a week				Unit multiplication method	Necessary lower limit units	Necessary lower limit units
Code	A completion requirements item name and subject name	Instructor	Unit	1st.Grade		2nd.Grade				
				Spring and Summer Terms	Fall and Winter Terms	Spring and Summer Terms	Fall and Winter Terms			
	Total							(1)+(2)	30	
	(1)Core Subjects							(1,1)+(1,2)+(1,3)	22	
	(1,1)Core Subjects(Required)							Σ	4	
331521	Research on Information Netwoking Ia	All Staff	2	6						
331522	Research on Information Netwoking Ib	All Staff	2		6					
	(1,2)Core Subjects(Required Elective)							(1,2,1)+(1,2,2)	4	
	(1,2,1)Required Elective Subjects 1							Σ	2	2
331514	Exercises on Information Networking I	All Staff	2	4						
331527	Exercises on Information Security I	Morito Matsuoka Yuya Tarutani Naoto Yanai (Shingo Okamura)	2	2	2					
	(1,2,2)Required Elective Subjects 2							Σ	2	2
331515	Exercises on Information Networking II	All Staff	2		4					
331528	Exercises on Information Security II	Morito Matsuoka Yuya Tarutani Naoto Yanai (Shingo Okamura)	2	2	2					
	(1,3)Core Subjects(Elective)							Σ	0	
331003	Special Lectures on Information Science & Technology I	(Nobuyuki Shibano) (Masaaki Nishino) (Tomoharu Iwata) (Yasue Kishino) (Takaaki Tanaka) (Masaya Hirashima) (Hiroshi Ban) (Yasushi Naruse)	2	2						
331004	Special Lectures on Information Science & Technology II	(Toshiyuki Kano) (Norihiko Taya)	2		2					
331501	Information Network Design	Morito Matsuoka Shin-ichi Arakawa	2	2						
331502	Multimedia Network		2							
331503	Information Network Architecture		2							
331504	Network Software	Takashi Watanabe Shunsuke Saruwatari	2		2					
331506	Information Sharing Platform		2							
331507	Mobile Computing		2							
331508	Mobile Communication Protocols	Teruo Higashino Hirozumi Yamaguchi	2		2					
331509	Gigabit Network		2							
331510	High-Speed Network Architecture	Masayuki Murata Go Hasegawa	2	2						
331511	Economics of Information Network	Teruo Higashino Hirozumi Yamaguchi (Keita Arai)	2	2						
331512	Seminar on Information Networking I	All Staff	2	2						
331513	Seminar on Information Networking II	All Staff	2		2					
331520	Information Sharing Network Design	Toru Hasegawa Ryutaro Kawamura Osamu Kamatani Takana Kaho	2	2						
331523	Research on Information Netwoking IIa	All Staff	2			6				
331524	Research on Information Netwoking IIb	All Staff	2				6			
331525	Advanced Introduction to Information Networking	All Staff	2		2					
331526	Internship on Information Networking	Masayuki Murata Takashi Watanabe Toru Hasegawa Teruo Higashino Morito Matsuoka Shin-ichi Arakawa Shunsuke Saruwatari Hirozumi Yamaguchi Go Hawsegawa Yuichi Oshita Yusuke Hirota Yuki Koizumi Akira Uchiyama Yiya Tarutani	2	3	3					
	(2)Elective subject							(2,1)+(2,2)+(2,3)	0	
	(2,1)Inter-disciplinary Subjects							Σ	0	
331005	Informartion Technology and Ethics	Stans or dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakonishi)	2	2						
331007	English Presentation Skills	Eum Suyong	2	*2	*2					
331014	The Foundation of Intellectual Property (Focusing on Computer Science)	Hidefumi Aoe & Other	2		2					
331135	Topics in Frontiers of Mathematics	Satoshi Murai	2		2					
331208	Advanced Statistical Analysis	Hiroshi Morita	2		2					

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331222	Advanced Introduction to Information Pysical Science	All staff of dept. of Information and	2	2						
331306	Software Maintenance Engineering		2							
331307	Algorithm Design		2							
331308	Theory of Distributed System Software	Toshimitsu Masuzawa Hirotsugu Kakugawa	2		2					
331319	Theory of Software Design	Shinji Kusumoto Kozo Okano	2	2						
331325	Fundamentals of Computer Science	All staff of dept. of Computer Science	2	2						
331332	Fundamentals of Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other	2	2						
331333	Exercise for Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto Shusuke Haruna & Other	2	2	2					
331336	Advanced PBL for Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto & Other	2		2					
331401	System Level Design Methodology		2							
331402	Introduction to VLSI Design	Masanori Hashimoto Yoshinori Takeuchi	2	2						
331420	Dependable Systems		2							
331635	Big Data Engineering	Makoto Onizuka Yuki Arase Yuya Sasaki	2	2						
331636	Big Data Analytics		2							
331621	Information Security	Toru Fujiwara Yasunori Ishihara	2	2						
331622	Content Security		2							
331639	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper Siriteanu Constantin	2	2						
331709	Human Information Processing		2							
331720	Bio-network Engineering		2							
331721	Basic Theory of Bio-networks	Naoki Wakamiya Jun-nosuke Teramae	2	2						
331724	Introduction to Bioinformatic Engineering	All staff of dept. of Bioinformatic Engineering	2	2						
331732	Introduction to Integrated Biological and Information Engineering	Hiroshi Shimizu Yoshinori Toya	2	2						
	(2,2)Others								0	
	(2,3)Academic Internship Abroad							MAX{(2,3,1),(2,3,2)}	0	
	(2,3,1)S								0	
331025	Academic Internship Abroad M(S)	All Staff(same as 331596)	4	6	6	(※6)				
	(2,3,2)L								0	
331027	Academic Internship Abroad M(L)	All Staff(same as 331596)	8	12	12	(※12)				

Note1) 1. Σ= Integrate the total number of credits for subjects with a slant line directly below.  
2. MAX= Integrate only one subject with the maximum number of credits.  
3. The class with \* is held twice a year. However, registration is limited according to the department.  
4. The class is not offered this year when the instructor's name field is blank.  
5. Requirements for Completion: Students must receive 30 credits or more from this table, and pass a final evaluation of their master's thesis.  
6. M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".

Note2) 1. The requirements to complete "Cloud Spiral" course shall be prescribed separately.  
2. 331332, 331333 and 331336 are offered only for "Cloud Spiral" course students. (held at Nakanoshima center)

Note3) The requirements to complete "SecCap" course shall be prescribed separately.