Master's Program Subject and Completion Requirements 2018

Department of Computer Science

Code	A completion requirements item name and subject name	Instructor	Unit	1st.Grade Spring and Summer Terms	1st.Grade Fall and Winter Terms	2nd.Grade Spring and Summer Terms	2nd.Grade Fall and Winter Terms	Unit multiplication method	Necessary lower limit units	Necessary lower limit units
	Total							(1)+(2)	30	
	(1)Core Subjects							(1,1)+(1,2)+(1,3)	22	
	(1,1)Core Subjects(Required)							Σ	4	
331321	Research on Computer Science Ia	All Staff	2	6						
331322	Research on Computer Science Ib	All Staff	2		6					
	(1,2)Core Subjects(Required Elective)							(1,2,1)or(1,2,2)or(1,2,3)	4	
	(1,2,1)Required Elective Subjects 1							Σ	0	
331312	Exercises on Computer science I	All Staff	2	4						
331313	Exercises on Computer science II	All Staff	2		4					
	(1,2,2)Required Elective Subjects 2							Σ	0	
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					
	(1,2,3)Required Elective Subjects 3							Σ	0	
331426	Introduction to Exercises on Information Engineering for Interactive Creation A	Taro Maeda Haruo Takemura Toru Fujiwara Hideyuki Ando Susumu Date Yuichi Ito	4	4	4					
	(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	(Kozo Kimura) (Hideaki Fukushima) (Kazuo Kajimoto) (Toshiyuki Kano) (Norihiko Taya) (Kousuke Nishihara) (Jyun Igarashi)	2		2					
331303	Parallel Programming		2							
331304	Theory of Parallel Algorithms	Fumihiko Ino	2	2						
331305	Theory of Software Development	Katsuro Inoue Makoto Matsushita	2		2					
331307	Algorithm Design	Toshimitsu Masuzawa Hirotsugu Kakugawa	2		2					
331308	Theory of Distributed System Software		2							
331310	Seminar on Computer Science I	All Staff	2	2						
331311	Seminar on Computer Science II	All Staff	2		2					
331318	Introduction to Intelligent System		2							
331319	Theory of Software Design	Shinji Kusumoto Yoshiki Higo	2	2						
331337	Image Recognition	Yasushi Makihara Daigo Muramatsu	2		2					
331323	Research on Computer Science IIa	All Staff	2			6				
331324	Research on Computer Science IIb	All Staff	2				6			
331325	Fundamentals of Computer Science	All Staff	2	2						
331326	Internship on Computer Science	All Staff (Except Collaborative Division)	2	3	3					
331336	Advanced PBL for Software Development on Cloud Environment	Katsuro Inoue Shinji Kusumoto & Other	2		2					
	(2)Elective subject							(2,1)+(2,2)+(2,3)	0	
	(2,1)Inter-disciplinary Subjects							Σ	0	
331005	Informartion Technology and Ethics	Staffs of dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakanish)	2	2						
331006	English Presentation Skills	Eum Suyong	2	*2	*2					
331014	The Foundation of Intellectual Property (Focusing on Computer Science)	Hidefumi Aoe & Other	2		2					
331030	Innovation Management	Minoru Eto Yuko Sasahara	2	2						
331135	Topics in Frontiers of Mathematics	Susumu Ariki	2		2					
331222	Advanced Introduction to Information Pysicscal Science	All staff of dept. of Information and Physical Sciences	2	2						
331420	Dependable Systems	Tatsuhiro Tsuchiya Hiroyuki Nakagawa	2	2						
331427	Embedded System Design	Masanori Hashimoto	2	2						
331408	Concurrent Systems		2							

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331501	Information Network Design		2							
331507	Mobile Computing	Teruo Higashino Hirozumi Yamaguchi	2	2						
331508	Mobile Communication Protocols		2							
331511	Economics of Information Network	Teruo Higashino Hirozumi Yamaguchi (Keita Arai)	2	2						
331525	Advanced Introduction to Information Networking	All staff of dept. of Information Networking	2		2					
331635	Big Data Engineering		2							
331636	Big Data Analytics	Makoto Onizuka Yuna Sasaki	2	2						
331621	Information Security		2							
331622	Content Security	Toru Fujiwara Shotaro Miwa Takeshi Yoneda Tsutomu Yoshikawa	2	2						
331639	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper Siriteanu Constantin	2	2						
331701	Bio-database Engineering		2							
331702	Molecular Bio-information Analysis	Hideo Matsuda Shigeto Senoo	2	2						
331720	Bio-network Engineering	Naoki Wakamiya Jun-nosuke Teramae	2	2						
331721	Basic Theory of Bio-networks		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 Yoshihiro 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	4	6	6	(※6)				
	(2,3,2)L								0	
331027	Academic Internship Abroad M(L)	All Staff	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)
    3. Students can not register for both 331312 and 331332 at the same time.
    4. Students can not register for both 331313 and 331333 at the same time.