

Master's Program Subject and Completion Requirements 2024

Department of Computer Science

Department of Computer Science			Instructor	Unit	School hour a week				Unit multiplication method	Necessary lower limit units	Upper limit units			
Code	Classification	A completion requirements item name and subject name			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.Advanced Liberal Arts Educational subjects (select from the attached list "「高度教養教育科目リスト(コンピュータサイエンス専攻)」")								2				
		2.Major Subjects・Advanced Global Literacy Educational subjects						(1)+(2)		28				
		(1)Core Subjects						(1,1)+(1,2)+(1,3)		22				
		(1,1)Core Subjects(Required)						Σ		4				
331321	M	Research on Computer Science Ia	All Staff	2	6									
331322	M	Research on Computer Science Ib	All Staff	2		6								
		(1,2)Core Subjects(Required Elective)						(1,2,1)or(1,2,2)		4				
		(1,2,1)Required Elective Subjects 1						Σ		0				
331312	M	Exercises on Computer science I	All Staff	2	4									
331313	M	Exercises on Computer science II	All Staff	2		4								
		(1,2,2)Required Elective Subjects 2						Σ		0				
331426	M	Introduction to Exercises on Information Engineering for Interactive Creation A	Taro Maeda Susumu Date Yuki Uranishi Yuichi Ito Masahiro Furukawa	4	4	4								
		(1,3)Core Subjects(Elective)										Σ		0
331003	M	Special Lectures on Information Science & Technology I	(Nobuyuki Shibano) (Hideharu Nakajima) (Hiroaki Sugiyama) (Masakazu Ishihata) (Takashi Hattori) (Masaya Hirashima) (Hiroshi Ban) (Yasushi Naruse)	2	2									
331004	M	Special Lectures on Information Science & Technology II	(Toshiyuki Kano) (Norihiko Taya)	2		2								
331303	M	Parallel Programming		2										
331304	M	Theory of Parallel Algorithms	Fumihiko Ino Masao Okita	2		2								
331305	M	Theory of Software Development	Yoshiki Higo Makoto Matsushita	2		2								
331307	M	Algorithm Design	Toshimitsu Masuzawa Taisuke Izumi	2		2								
331308	M	Theory of Distributed System Software		2										
331310	M	Seminar on Computer Science I	All Staff	2	2									
331311	M	Seminar on Computer Science II	All Staff	2		2								
331318	M	Introduction to Intelligent System		2										
331319	M	Theory of Software Design	Shinji Kusumoto	2	2									
331337	M	Image Recognition	Yasushi Yagi Yuuta Nakashima Yasushi Makihara Hideaki Hayashi Kota Aoki	2		2								
331338	M	Computational Phogography	Hajime Nagahara Tomoya Nakamura	2		2								
331323	M	Research on Computer Science IIa	All Staff	2		6								
331324	M	Research on Computer Science IIb	All Staff	2			6							
331325	G・M	Fundamentals of Computer Science	All Staff	2	2									
331326	M	Internship on Computer Science	All Staff (Except Collaborative Division)	2	3	3								
		(2)Elective subject						(2,1)+(2,2)+(2,3)		0				
		(2,1)Inter-disciplinary Subjects						Σ		0				
331005	M	Informartion Technology and Ethics	Staffs of dept. of Information Systems Engineering Staffs of dept. of Multimedia Engineering (Michio Nakanish)	2	2									
331006	G・M	English Presentation Skills	Bettina Wutzl	2	*2	*2								
331014	M	The Foundation of Intellectual Property (Focusing on Computer Science)	(Shuichi Mukai) (Tsuyoshi Masuda) & Other	2		2								
331030	M	Innovation Management	Minoru Eto Yuko Sasahara	2	2									
331135	M	Topics in Frontiers of Mathematics	Makoto Nakamura	2		2								
331222	M	Advened Introduction to Information Pysicscal Science	All staff of dept. of Information and Physical Sciences	2	2									
331226	M	Introduction to Smart Contracts	Masayuki Murata Kenji Yamada Kayo Yoshimoto Hiroshi Noguchi Kozou Ohtani	2	2									
331431	M	Machine Learning Systems Theory	Yoshinobu Kawahara Takuya Konishi	2	2									
331408	M	Concurrent Systems		2										
331420	M	Dependable Systems	Tsuchiya Tatsuhiko	2	2									
331501	M	Information Network Design		2										
331507	M	Mobile Computing	Hirozumi Yamaguchi Akira Uchiyama Viktor Erdelyi	2	2									
331508	M	Mobile Communication Protocols		2										
331511	M	Economics of Information Network	Hirozumi Yamaguchi Akira Uchiyama (Keita Arai)	2	2									

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331525	M	Advanced Introduction to Information Networking	All staff of dept. of Information Networking	2		2					
331635	M	Big Data Engineering		2							
331636	M	Big Data Analytics	Makoto Onizuka Chuan Xiao	2	2						
331621	M	Information Security		2							
331622	M	Content Security	Atsuo Inomata Kiyosuke Yamashita	2	2						
331639	G・M	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper	2	2						
331701	M	Bio-database Engineering		2							
331702	M	Molecular Bio-information Analysis	Hideo Matsuda Shigeto Seno	2	4 (Spring)						
331720	M	Bio-network Engineering	Naoki Wakamiya	2	2						
331721	M	Basic Theory of Bio-networks		2							
331724	M	Introduction to Bioinformatic Engineering	All staff of dept. of Bioinformatic Engineering	2	2						
331732	M	Introduction to Integrated Biological and Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi Teppei Niide Taisuke Seike	2	2						
331031	M	Humanware Fundamentals I M	MAHZOON HAMED Satoru Iwasaki Shin'ichi Arakawa Hiroshi Shimizu	2	2						
331032	M	Humanware Fundamentals II M	Satoru Iwasaki Taisuke Izumi	2		2					
331033	M	Humanware Innovation Creation M	Toshimitsu Masuzawa Shigeru Kondo Hideyuki Takahashi	2		2					
331034	M	Humanware Seminar M	Ittetsu Taniguchi Nobuyuki Okahashi Yoshiki Higo MAHZOON HAMED Hiroshi Shimizu	2	1	1					
331035	M	Humanware Innovation Introduction M	Tatsuhiro Tsuchiya Naoki Wakamiya	2	1	1					
331036	M	Humanware Communication M	Shin-ichi Arakawa Suguru Shimomura	2			1	1			
331037	M	Humanware Laboratory Rotation M	Yoshiki Higo	2	1	1					
331038	M	Humanware Internship (Short Term) M	Takuya Maekawa Naoki Wakamiya Satoru Iwasaki	2	3	3					
331039	M	Humanware Internship (Long Term) M	Takuya Maekawa Naoki Wakamiya Satoru Iwasaki	4	6	6					
		(2,2)Others								0	
		(2,3)Academic Internship Abroad							MAX{(2,3,1),(2,3,2),(2,3,3)}	0	
		(2,3,1)								0	
331040	G・M	Humanware Overseas Internship (Short Term) M	Yasuyuki Matsushita Satoru Iwasaki	2	3	3					
		(2,3,2)								0	
331025	G・M	Academic Internship Abroad M(S)	All Staff	4	6	6	(6)				
331041	G・M	Humanware Overseas Internship (Long Term) M	Yasuyuki Matsushita Satoru Iwasaki	4	6	6					
		(2,3,3)								0	
331027	G・M	Academic Internship Abroad M(L)	All Staff	8	12	12	(12)				

Note)

- Σ= Integrate the total number of credits for subjects with a slant line directly below.
- MAX= Integrate only one subject with the maximum number of credits.
- The class with * is held twice a year. However, registration is limited according to the department.
- The class is not offered this year when the instructor's name field is blank.
- Requirements for Completion: Students must receive 30 credits or more from this table, and pass a final evaluation of their master's thesis. In the 30 credits, students must include 22 credits of Major subjects, 1 credit of Advanced Global Literacy Educational subjects, and 2 credits of Advanced Liberal Arts Educational subjects.
- M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".
- "M" in the classification column represents Major subjects, "G" represents Advanced Global Literacy Educational subjects, and "G・M" represents subjects with both Advanced Global Literacy Educational and Major subjects' characteristics.
- If you have acquired subjects with both Advanced Global Literacy Educational and Major subjects' characteristics, the credits will be included preferentially for Advanced Global Literacy Educational subjects. If 1 credit of Advanced Global Literacy Educational subjects is already fulfilled, the credits will be included for Major subjects.
- With regard to Advanced Liberal Arts Educational subjects and Advanced Global Literacy Educational subjects offered by other graduates schools (or other institutions) in Osaka university, the subjects approved by Department of Computer Science can be included for Requirements for Completion up to 2 credits for Advanced Liberal Arts and up to 1 credit for Advanced Global Literacy Educational subjects.
- For details, please refer the attached 「高度教養教育科目リスト(コンピュータサイエンス専攻)」 「高度国際性演義教育科目リスト(コンピュータサイエンス専攻)」.
- Only Humanware Innovation Program students can register subjects from 331036 to 331041.