Master's Program Subject and Completion Requirements 2024

Department of Multimedia Engineering

Code	Classification	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	Upper limit units
		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(マルチメディア工学専攻)」")								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	4
331625	M	Research on Multimedia Engineering Ia	All Staff	2	6						
331626	M	Research on Multimedia Engineering Ib	All Staff	2		6					
		(1,2)Core Subjects（Required Elective）							(1,2,1)or(1,2,2)or(1,2,3)	4	4
		(1,2,1)Required Elective Subjects 1							Σ	0	
331613	M	Exercises on Multimedia Engineering I	All Staff	2	4						
331614	M	Exercises on Multimedia Engineering II	All Staff	2		4					
		(1,2,2)Required Elective Subjects 2							Σ	0	
331527	M	Exercises on Information Security I	Hirozumi Yamaguchi Akira Uchiyama (Shingo Okamura)	2	2	2					
331528	M	Exercises on Information Security II	Hirozumi Yamaguchi Akira Uchiyama (Shingo Okamura)	2	2	2					
		(1,2,3)Required Elective Subjects 3							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）							(1,3,1)+(1,3,2)	14	
		(1,3,1)Subjects held at the university							Σ	0	
331601	M	Architecture for Multimedia Systems	Susumu Date Kazuhide Kojima Yoshiyuki Kido	2	2						
331635	M	Big Data Engineering		2							
331636	M	Big Data Analytics	Makoto Onizuka Chuan Xiao	2	2						
331640	M	Cybernetic Avatar	Norihiro Hagita Takahiro Miyashita Satoshi Satake	2		2					
331611	M	Seminar on Multimedia Engineering I	All Staff	2	2						
331612	G・M	Seminar on Multimedia Engineering II	All Staff	2		2					
331619	M	Multimedia Data Engineering	Takahiro Hara Takuya Maekawa Tadashi Nakano Renee Patrizia Shultz Yasue Kishino	2	2						
331620	M	Database Systems		2							
331621	M	Information Security		2							
331622	M	Content Security	Atsuo Inomata Kyosuke Yamashita	2	2						
331637	M	Robot Vision	Yasuyuki Matsushita	2		2					
331638	M	Machine Vision		2							
331627	M	Research on Multimedia Engineering IIa	All Staff	2			6				
331628	M	Research on Multimedia Engineering IIb	All Staff	2				6			
331629	M	Special Lectures on Multimedia Engineering	(Osamu Shirakawa) (Tsukasa Okada) (Takashi Taketomi) (Masaki Samejima) (Toshimori Honjo) (Taro Saitou) (Yoshinori Takesako) (Yasuhiro Fujiwara) (Yukiko Kawai)	2		2					
331639	G・M	Studies on International Integrated Sciences	Leibnitz Kenji Ferdinand Peper	2	2						
		(1,3,2)Subjects held outside the university							MAX{(1,3,2,1),(1,3,2,2)}	0	
		(1,3,2,1)								0	
331630	M	Internship on Multimedia Engineering	All Staff(Except Collaborative Division)	2	3	3					

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		(1,3,2,2)								0	
331633	M	Collaborative Research in Multimedia Engineering	All Staff(Except Collaborative Division)	4	6	6					
		(2)Elective subject							(2,1)+(2,2)+(2,3)		
		(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 Nakanishi)	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					
331203	M	Computational Informatics	Takayuki Wada	2		2					
331204	M	Mathematical Programming	Yutaro Yamaguchi	2	2						
331208	M	Advanced Statistical analysis	Hiroshi Morita	2		2					
331222	M	Advanced Introduction to Information Physical Science	All Staff	2	2						
331224	M	Knowledge Informatics	Kenichi Fukui	2		2					
331307	M	Algorithm Design	Toshimitsu Masuzawa Taisuke Izumi	2		2					
331308	M	Theory of Distributed System Software		2							
331319	M	Theory of Software Design	Shinji Kusumoto	2	2						
331337	M	Image Recognition	Atsushi Yagi Yuta Nakashima Yasushi Makihara Hideaki Hayashi Kota Aoki	2		2					
331338	M	Computational Phogography	Hajime Nagahara Tomoya Nakamura	2		2					
331404	M	Computer-Aided System-on-a-Chip Design		2							
331408	M	Concurrent Systems		2							
331409	M	System Interface Design	Yuki Uranishi	2	2						
331419	M	Integrated System Architecture and Synthesis	Takao Onoye Ittetsu Taniguchi Norio Ito Kimihiko Imamura Shohei Yamada	2	2						
331420	M	Dependable Systems	Tatsuhiro Tsuchiya	2	2						
331431	M	Machine Learning Systems Theory	Yoshinobu Kawahara Takuya Konishi	2							
331501	M	Information Network Design		2							
331502	M	Multimedia Network	Hideyuki Shimonishi Shin-ichi Arakawa	2		2					
331507	M	Mobile Computing	Hirozumi Yamaguchi Akira Uchiyama Viktor Erdelyi	2	2						
331508	M	Mobile Communication Protocols		2							
331509	M	Gigabit Network	Masayuki Murata Yuichi Ohshita	2		2					
331510	M	High-Speed Network Architecture		2							
331511	M	Economics of Information Network	Hirozumi Yamaguchi Akira Uchiyama (Keita Arai)	2	2						
331525	M	Advanced Introduction to Information Networking	All staff of dept. of Information Networking	2		2					
331709	M	Human Information Processing	Taro Maeda Masahiro Frukawa	2		2					
331720	M	Bio-network Engineering	Naoki Wakamiya	2	2						
331721	M	Basic Theory of Bio-networks		2							
331723	M	Human Information Engineering		2							

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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									
		(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)				

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. 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.
6. M1 students can register Academic Internship AbroadM(S),M(L) from "fall and winter terms" through "spring and summer terms".
7. "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.
8. 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.
9. 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 Multimedia Engineering can be included for Requirements for Completion up to 2 credits for Advanced Liberal Arts Educational subjects and 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(マルチメディア工学専攻)」「高度国際性涵養教育科目リスト(マルチメディア工学専攻)」.
10. Only Humanware Innovation Program students can register subjects from 331036 to 331041.

Note2)
The requirements to complete "SecCap" course shall be prescribed separately.