

Doctor's Program Subject and Completion Requirement 2019

Department of Information and Physical Sciences

Code	Classificat ion	subject name	Instructor	Unit		School hour a week				remarks
				Core Subjects	Elective subject	1st.Grade		2nd.Grade		
						Spring and Summer Terms	Fall and Winter Terms	Spring and Summer Terms	Fall and Winter Terms	
333201	M	Advanced Operations Research	Yasumasa Fujisaki Hiroshi Morita Shunji Umetani Takayuki Wada		2	2				
333202	M	Advanced Nonlinear Systems Analysis	Suzuki Hideyuki Yoshitaka Yamamoto		2		2			
333205	M	Applied Information Physics	Jun Tanida Yusuke Ogura		2	2				
333206	M	Architecture for Intelligence	Msayuki Numao Kenichi Fukui		2		2			
333605	G・M	Advanced Integrated Sciences	Leibnitz Kenji Ferdinand Peper Cruz Jason Paul Miranda		2	2				
333406	M	Exercises on Information Engineering for Interactive Creation A	Taro Maeda Haruo Takemura Toru Fujiwara Hideyuki Ando Susumu Date Yuichi Ito		4	4	4			
333706	M	Integrated Biological and Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi		2	2				
333207	M	Internship on Information and Physical Sciences D	Yasumasa Fujisaki Jun Tanida Hiroshi Morita Masayuki Numao Suzuki Hideyuki		2	3	3	(※3)		
333010	G・M	Academic Internship Abroad D(S)	All Staff		4	6	6	(※6)		(Common subject for all departments)
333012	G・M	Academic Internship Abroad D(L)	All Staff		8	12	12	(※12)		(Common subject for all departments)
333014	M	Humanware Fundamentals I D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	2				
333015	M	Humanware Fundamentals II D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2		2			
333016	M	Humanware Innovation Creation D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2		2			
333017	M	Humanware Seminar D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	1	1			
333018	M	Humanware Innovation Introduction D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	1	1			
333019	M	Humanware Communication D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	1	1			
333020	M	Humanware Interdisciplinary Project Studies D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		4	2	2			
333021	M	Innovation Practice Seminar D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		4	2	2			
333022	M	Humanware Innovation Activity D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	1	1			
333023	M	Humanware Laboratory Rotation D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	1	1			
333024	M	Humanware PI Interdisciplinary Project Studies D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		4			2	2	
333025	M	Internship (Short Term) D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	3	3			

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333026	M	Internship (Long Term) D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		4	6	6			
333027	G・M	Overseas Internship (Short Term) D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		2	3	3			
333028	G・M	Overseas Internship (Long Term) D	Hiroshi Shimizu Naoki Wakamiya Takahiro Hara Kazufumi Hosoda MAHZOON_HAMED		4	6	6			

(Requirements for Completion)

Students must receive 4 credits or more, and pass a final evaluation of their doctoral thesis.

- ※ 1. In the case of taking Internship on Information and Physical Sciences D, Academic Internship Abroad D(S), D(L), one unit will be accepted and included into the residency requirement.
- ※ 2. D1,D2 students can register Internship on Information and Physical Sciences D, Academic Internship Abroad D(S), D(L) from "Fall and Winter Terms" through "Spring and Summer Terms".
- 3. "M" in the classification column represents Major subjects, "G" represents Advanced Global Literacy Educational subjects, and "G・M" represents subjects with both Advanced Liberal Arts Educational and Major subjects' characteristics.
- 4. Only Humanware Innovation Program students can register subjects from 333023 to 333028.
- 5. With regard to 333014、333015、333016、333017、333018、333019、333022、333023、333025、333026、333027、333028, those who have already acquired M version of those subjects in Master course can't register D version of those in Doctoral Course.  
ex.) Those who have already acquired Humanware Fundamentals I M in the Master course can't register Humanware Fundamentals I D in the Doctoral course.