Doctor's Program Subject and Completion Requirements 2021

Department of Bioinformatic Engineering

Code	Classification	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	
333701	M	Advanced Lectures Applied Bio-information	Hideo Matsuda Naoki Wakamiya Shigeto Senoo Masaki Ogura		2	2				
333702	G・M	Advanced Lectures on Biological Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi		2		2			
333704	M	Advanced Lectures on Human Information Engineering	Taro Maeda Masahiro Furukawa		2	2				
333706	M	Integrated Biological and Information Engineering	Hiroshi Shimizu Fumio Matsuda Yoshihiro Toya Nobuyuki Okahashi		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 Yuki Uranishi Susumu Date Yuichi Ito Masahiro Furukawa		4	4	4			
333705	M	Internship on Bioinformatic Engineering D	All Staff		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	MAHZOON HAMED Satoru Iwasaki Taisuke Izumi Hiroshi Shimizu Takahiro Hara		2	2				
333015	M	Humanware Fundamentals II D	Satoru Iwasaki Taisuke Izumi Yusuke Ogura Ittetsu Taniguchi Shin-ichi Arakawa Kenji Yasunaga Nobuyuki Okahashi Takahiro Hara		2		2			
333016	M	Humanware Innovation Creation D	Toshimitsu Masuzawa Takahiro Hara Shigeru Kondo Hiroshi Ishiguro		2		2			
333017	M	Humanware Seminar D	Nobuyuki Okahashi Ittetsu Taniguchi Fumihiko Ino MAHZOON HAMED Shin-ichi Arakawa Satoru Iwasaki Hiroshi Shimizu		2	1	1			
333018	M	Humanware Innovation Introduction D	Tatsuhiro Tsuchiya Naoki Wakamiya		2	1	1			
333019	M	Humanware Communication D	Yusuke Ogura Shin-ichi Arakawa Takahiro Hara		2	1	1			
333020	M	Humanware Interdisciplinary Project Studies D	Fumihiko Ino Hiroshi Shimizu		4	2	2			
333021	M	Innovation Practice Seminar D			4					
333022	M	Humanware Innovation Activity D	Naoki Wakamiya		2	1	1			
333023	M	Humanware Laboratory Rotation D			2					
333024	M	Humanware PI Interdisciplinary Project Studies D			4					
333025	M	Internship (Short Term) D	Kenji Yasunaga Naoki Wakamiya Satoru Iwasaki		2	3	3			
333026	M	Internship (Long Term) D	Kenji Yasunaga Naoki Wakamiya Satoru Iwasaki		4	6	6			
333027	G・M	Overseas Internship (Short Term) D	Toru Fujiwara Satoru Iwasaki		2	3	3			
333028	G・M	Overseas Internship (Long Term) D	Toru Fujiwara Satoru Iwasaki		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 Computer Science 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 Computer Science 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.