Departn	nent of I	ure and Applied Mathematics			School hour a week						
	Classific				1st (	School ho Grade		Grade	Unit multiplication	Necessary	Upper limit
Code	ation	A completion requirements item name and subject name	Instructor	Unit	Spring and Summer	Fall and Winter	Spring and	Fall and Winter	method	lower limit units	units
		Total			Towns	Terms	Summer Terms	Terms	1+2	30	
		1.Advanced Liberal Arts Educational subjects (select from	the attached list "「高度教眷	教育科目	リスト(情報基礎	恭数学専攻)」)			172	2	
		2.Major Subjects · Advanced Global Literacy Educational							(1)+(2)	28	
		(1)Core Subjects							(1,1)+(1,2)	22	
331136	M	(1,1)Core Subjects (Required) Research on Pure and Applied Mathematics Ia	All Staff	4	12				Σ	9	
331137	M	Research on Pure and Applied Mathematics Ib	All Staff	4	1,2	12					
331152	G	Study of Literature on Pure and Applied Mathematics	All Staff	1	2 (Spring)						
001101		(1,2)Core Subjects(Elective)	M' 1' IZ + 1'			0			Σ	0	
331121 331122	M M	Pure and Applied Algebra Pure and Applied Geometry	Mimachi Katsuhisa	2		2			\		
331123	M	Pure and Applied Analysis	Yoshie Sugiyama	2		2			] \		
331124 331125	M M	Combinatorics Geometric Structure		2					\		
331126	M	Discrete Structure	Yasuhiro Wakabayashi	2	_	2					
331127 331128	M M	Applied Analysis Mathematical Science	Tsuyoshi Chawanya	2	2						
331129	M	Computer Assisted Mathematics	Yuto Miyatake	2	2						
331130 331131	M M	Computational Mathematics I Computational Mathematics II	Daisuke Furihata Tsuyoshi Chawanya	2	2	2			\		
331132	M	Applied Mathematics	Yoshie Sugiyama	2		2			\		
331133	M	Review on Pure and Applied Mathematics I	The Institute of Actuaries of Japan	2	2						
331134	M	Review on Pure and Applied Mathematics II	Noriyoshi Sakuma	2	2				<u>'</u>	\	
331135 331138	M M	Topics in Frontiers of Mathematics Research on Pure and Applied Mathematics IIa	Yuto Miyatake All Staff	2		2	12		-	\	
331139	M	Research on Pure and Applied Mathematics IIb	All Staff	4			12	12	]		
331140	M	Frontiers of Pure and Applied Mathematics M(A)	-	1					-	\	
331141 331142	M M	Frontiers of Pure and Applied Mathematics M(B) Frontiers of Pure and Applied Mathematics M(C)		1					1	\	
331143	M	Frontiers of Pure and Applied Mathematics M(D)	Y 1 ' A	1						\	
331144 331145	M M	Frontiers of Pure and Applied Mathematics M(E) Frontiers of Pure and Applied Mathematics M(F)	Yuki Arano	1		1			-	\	
331146	M	Frontiers of Pure and Applied Mathematics M(G)	Shingo Sugiyama	1		1				,	\
331147 331148	M M	Frontiers of Pure and Applied Mathematics M(H) Frontiers of Pure and Applied Mathematics M(I)	Kazuhiko Yamaki	1	1				-		
331149	M	Frontiers of Pure and Applied Mathematics M(J)	Sumio Yamada	1		1					
331150 331151	M M	Frontiers of Pure and Applied Mathematics M(K) Frontiers of Pure and Applied Mathematics M(L)	Junichi Inoguchi Hisashi Morioka	1		1			-		
331153	M	Frontiers of Pure and Applied Mathematics M(M)		1		•					\
331154 331155	M M	Frontiers of Pure and Applied Mathematics M(N) Frontiers of Pure and Applied Mathematics M(O)	Takahiro Hasebe Yuichi Ike	1	1						/
331156	M	Frontiers of Pure and Applied Mathematics M(P)	Tomohiro Ogawa	1		1					\
		(2)Elective subject							(2,1)+(2,2)+(2,3)	0	
		(2,1)Inter-disciplinary Subjects							Σ	0	
			Staffs of dept. of						\		
			Information Systems Engineering								
331005	M	Information Technology and Ethics	Staffs of dept. of	2	2						
			Multimedia Engineering						\		
			(Michio Nakanishi)						\		
331006	G·M	English Presentation Skills	Bettina Wutzl	2	*2	*2			\		
331014	M	The Foundation of Intellectual Property (Focusing on	(Shuichi Mukai) (Tsuyoshi Masuda)	2		2			\		
331014	141	Computer Science)	& Other			_			\		
			Minoru Eto						1		
331030	M	Innovation Management	Yuko Sasahara	2	2				\		
			Takaaki Kitajima Kenji Yamada						\		
331226	M	Introduction to Smart Contracts	Kayo Yoshimoto	2	2				\		
001220	191	and addition to binary contracts	Hiroshi Noguchi Kozou Ohtani						\		
201 400	3.5	Advanced Communication Control	MANUA CHIMIII						1	\	
331428	M	Advanced Computing Systems	27 1 1126	2						\	
331429	M	Advanced Information Systems	Noriyuki Miura Jun Shiomi	2	2					\	
331431	M	Machine Learning Systems Theory		2					1	\	
001491	171	mannie Bearing bysiems Theory	Yoshinobu Kawahara						-	\	
901400	3.6	Marking Lauring for D. 1997	Yoshinobu Kawahara Masahiro Ikeda		_					\	
331432	M	Machine Learning for Dynamical Systems	Takuya Konishi	2	2					\	
			Masahiro Fujisawa Hirozumi Yamaguchi			-			-	\	
331511	M	Economics of Information Network	Akira Uchiyama	2	2					/	\
			(Keita Arai)						-		\
331525	M	Advanced Introduction to Information Networking	All staff of dept. of Information Networking	2		2					\
331621	M	Informartion Security	Takanori Isobe	2	2				1		\
331622	M	Content Security	Kyosuke Yamashita	2	_				-		\
331639		Studies on International Integrated Sciences	Leibnitz Kenji		•				1		\
	G·M	· ·	Ferdinand Peper	2	2						\
331720	M	Bio-network Engineering	Naoki Wakamiya	2	2	1			1		\
331724	M	Introduction to Bioinformatic Engineering	All staff of dept. of	2	2						\
		- Ingliteding	Bioinformatic Engineering	-	_						'
		(2,2)Others								0	
		(0.0)4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							MAN((0 0 -) (0 0 -))		
		(2,3)Academic Internship Abroad							MAX{(2,3,1),(2,3,2)}	0	
		(2,3,1)S								0	
	$G \cdot M$	Academic Internship Abroad M(S)	All Staff	4	6	6	(6)				
331025											
331025		(2,3,2)L Academic Internship Abroad M(L)	All Staff	8	12	12	(12)			0	

- Note ) 1.  $\Sigma$ = Integrate the total number of credits for subjects with a slant line directly below.

- 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 subjects. If 1 credit of Advanced Global Literacy Educational subjects will be included for Major subjects.

  9. With regard to Advanced Liberal Arts Educational subjects and applied Mathematics can be included for Requirements for Completion up to 2 credits for Advanced Liberal Arts Educational subjects and up to 1 credit for Advanced Global Literacy Educational subjects and up to 1 credit for Advanced Global Literacy Educational subjects.

  For details, please refer the attached "「高度教養教育科目ソハ (情報基礎教学専攻)」「高度国際性調養教育科目ソハ (情報基礎教学専攻)」、