## 2.5. Course List of Information Systems Science Major

Code	Course Title	Credits	Year	Avaiilable Year	Semester	Class instructors	Remark
OElective (	Course (14 credits or more)			Tear			
Checking Course (14 creats of more)							
INFO500	Information Mathematical Science A	2	1.2	Even	Spring	KITANO Teruaki	
INFO501	Information Mathematical Science B	2	1.2	Odd	Spring	KITANO Teruaki	
INFO502	Information Mathematical Science C	2	1.2	Even	Fall	YAMAGAMI Atsushi	
INFO503	Information Mathematical Science D	2	1.2	Odd	Fall	YAMAGAMI Atsushi	
INFO504	Design and Analysis of Algorithms A	2	1.2	Annually	Spring	Kiyoko F. KINOSHITA	
INFO505	Design and Analysis of Algorithms B	2	1.2	Annually	Fall	UNEMI Tatsuo	*ET
INFO506	Mathematical Models in Computer Science A	2	1.2	Even	Fall	KOBAYASHI Yukio	
INFO507	Mathematical Models in Computer Science B	2	1.2	Odd	Fall	KOBAYASHI Yukio	
INFO508	Applied Multivariate Analysis A	2	1.2	Even	Spring	SAKABE Soichi	
INFO509	11	2	1.2	Odd	Spring	SAKABE Soichi	*57(0)
	Lectures in Emergent Systems	2	$1 \cdot 2$ $1 \cdot 2$	Annually	Fall 集中	SAKIYAMA Tomoko	*ET(O)
	Special Lecture on Mathematical Sciences n Processing System Field>	Z	1•2	Annually		KITANO Teruaki	
	Advanced Networking	2	1.2	Odd	Fall	SHINOMIYA Norihiko	*ET
INFO510	Information Network Design	2	1.2	Even	Spring	SHINOMIYA Norihiko	EI
	Intelligent Systems A	2	1.2	Annually	Spring	UNEMI Tatsuo	*ET(E)
	Intelligent Systems A	2	1.2	Annually	Fall	ATSUMI Masayasu	*ET(O)
	Computer Security A	2	1.2	Even	Fall	KANEKO Tomoko	*ET
	Computer Security B	2	1.2	Odd	Fall	KANEKO Tomoko	*ET
INFO534		2	1.2	Annually	Spring	TERASHIMA Yoshiaki	
	Intelligent Systems	2	1.2	Even	Fall	KASAMATSU Daisuke	*ET
	ation and Control System Field>						
INFO516		2	1.2	Odd	Spring	Yongwoon Choi	
	Opt-Electronics	2	1.2	Annually	Fall	NISHIYAMA Michiko	*ET(E)
INFO518	Measurement Systems and Instruments	2	1.2	Annually	Spring	HAGIWARA Yoshinobu	*ET(E)
INFO519	Scientific Visualization	2	1.2	Even	Fall	ISHII Yoshio	
INFO520	Non-Linear Systems (Complex System)	2	1.2	Odd	Fall	ISHII Yoshio	
INFO521	Image processing technology	2	1.2	Annually	Fall	SHISHIDO Hidehiko	*ET
INFO522	Advances in Digital Signal Analysis	2	1.2	Even	Fall	IMAMURA Hiroki	*ET
	Digital System Design Based on FPGA and HDL	2	1.2	Odd	Fall	IYOTA Taketoshi	
	Mechanism and Implementation of A Real Time OS	2	1.2	Even	Fall	IYOTA Taketoshi	
INFO525	Advances in Computer Graphics	2	1.2	Odd	Fall	IMAMURA Hiroki	*ET
	System Control Theory	2	1.2	Annually	Spring	ISHII Yoshio	
	Advanced Laser Engineering	2	1.2	Annually	Fall	KUBODERA Shoichi	
<common c<="" td=""><td>Courses&gt;</td><td></td><td></td><td>1</td><td>1</td><td></td><td>r</td></common>	Courses>			1	1		r
INFO528	Presentation Skills 1	2	1.2	Annually	Spring	UNEMI Tatsuo	
						Colin Rundle	
INFO529	Presentation Skills 2	2	1.2	Annually	Fall	UNEMI Tatsuo	
				5		Colin Rundle	
INFO530	Technical Writing Skills 1	2	1.2	Annually	Spring	UNEMI Tatsuo	_
				2	1 0	Colin Rundle	
INFO531	Technical Writing Skills 2	2	1.2	Annually	Fall	UNEMI Tatsuo	
				•		Colin Rundle UNEMI Tatsuo	
INFO550	Special Lectures: Intellectual Property	2	1.2	Annually	Spring	TERASHIMA Yoshiaki	
INFO551	Special Lectures: Technology and Entrepreneur	2	1.2	Annually	Fall	Yongwoon Choi	
INFO531 INFO532	Internship in Graduate Course	2	1.2	Annually	Sp/Fall	IMAMURA Hiroki	
	<b>Courses (17 credits)</b> *16 credits are required for stu						L
	[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	ucints cint	ing n			KAWAI Hideki	*ET
INFO570	Research Ethics	1	1	Annually	Spring	IYOTA Taketoshi	*1
INFO600	Advanced Seminar in Information Systems 1	2	1	Annually	Sp/Fall	Each Supervisor	
INFO601	Advanced Seminar in Information Systems 1	2	1	Annually	Sp/Fall	Each Supervisor	1
INFO602	Advanced Seminar in Information Systems 2	2	2	Annually	Sp/Fall	Each Supervisor	
INFO602 INFO603	Advanced Seminar in Information Systems 5	2	2	Annually	Sp/Fall	Each Supervisor	
INF0604	Advanced Research in Information Systems 1	2	1	Annually	Sp/Fall	Each Supervisor	
INFO605	Advanced Research in Information Systems 1	2	1	Annually	Sp/Fall	Each Supervisor	
INFO606	Advanced Research in Information Systems 2 Advanced Research in Information Systems 3	2	2	Annually	Sp/Fall	Each Supervisor	
INFO607	Advanced Research in Information Systems 5	2	2	Annually	Sp/Fall	Each Supervisor	
*1. p	Advanced Research in information Systems 4	4	4	2 uniualiy	opitan	Luch Supervisor	I

\*1: Research Ethics [INFO570] is a course offered for students entering in 2022; students in 2019-2021 are not required to take this course.

The "\*ET" in the Remarks indicates that the course is an English Track course; an "E" or "O" after "ET" indicates that the course is offered as an English Track course in an even or odd year in the Western calendar. Courses with "\*ET" may be offered in Japanese if there are no students enrolled in the English Track.

## 2.5.2. Doctoral Program (For students entering in 2019 and after)

Code	Course Title	Credits	Year	Avaiilable Year	Semester	Class instructors	Remark
〇必修科目	(12 科目 24 単位)						
INFO700	Advanced Seminar in Information Systems 5	2	1	Annually	Sp/Fall	Each Supervisor	
INFO701	Advanced Seminar in Information Systems 6	2	1	Annually	Sp/Fall	Each Supervisor	
INFO702	Advanced Seminar in Information Systems 7	2	2	Annually	Sp/Fall	Each Supervisor	
INFO703	Advanced Seminar in Information Systems 8	2	2	Annually	Sp/Fall	Each Supervisor	
INFO704	Advanced Seminar in Information Systems 9	2	3	Annually	Sp/Fall	Each Supervisor	
INFO705	Advanced Seminar in Information Systems 10	2	3	Annually	Sp/Fall	Each Supervisor	
INFO706	Advanced Research in Information Systems 5	2	1	Annually	Sp/Fall	Each Supervisor	
INFO707	Advanced Research in Information Systems 6	2	1	Annually	Sp/Fall	Each Supervisor	
INFO708	Advanced Research in Information Systems 7	2	2	Annually	Sp/Fall	Each Supervisor	
INFO709	Advanced Research in Information Systems 8	2	2	Annually	Sp/Fall	Each Supervisor	
INFO710	Advanced Research in Information Systems 9	2	3	Annually	Sp/Fall	Each Supervisor	
INFO711	Advanced Research in Information Systems 10	2	3	Annually	Sp/Fall	Each Supervisor	

## 2.6. Instructors teaching research guidance courses

Field	]	Remark	
	Professor	KITANO Teruaki	
	Professor	SAKABE Soichi	
Mathematical Informatics System	Professor	KOBAYASHI Yukio	Master's Program Only
	Professor	YAMAGAMI Atsushi	Master's Program Only
	Associate professor	SAKIYAMA Tomoko	
	Professor	UNEMI Tatsuo	
	Professor	ATSUMI Masayasu	
	Professor	SHINOMIY Norihiko	
Information Processing System	Professor	TERASHIMA Yoshiaki	
	Professor	KANEKO Tomoko	
	Associate proffessor	KASAMATSU Daisuke	Master's Program Only
	Associate proffessor	HAGIWARA Yoshinobu	Master's Program Only
	Associate professor	ISHII Yoshio	
	Professor	Yongwoon Choi	
Communication and Control	Associate professor	IYOTA Taketoshi	Master's Program Only
	Professor	IMAMURA Hiroki	
System	Professor	KUBODERA Shoichi	
	Associate professor	NISHIYAMA Michiko	
	Associate pfofessor	SHISHIDO Hidehiko	