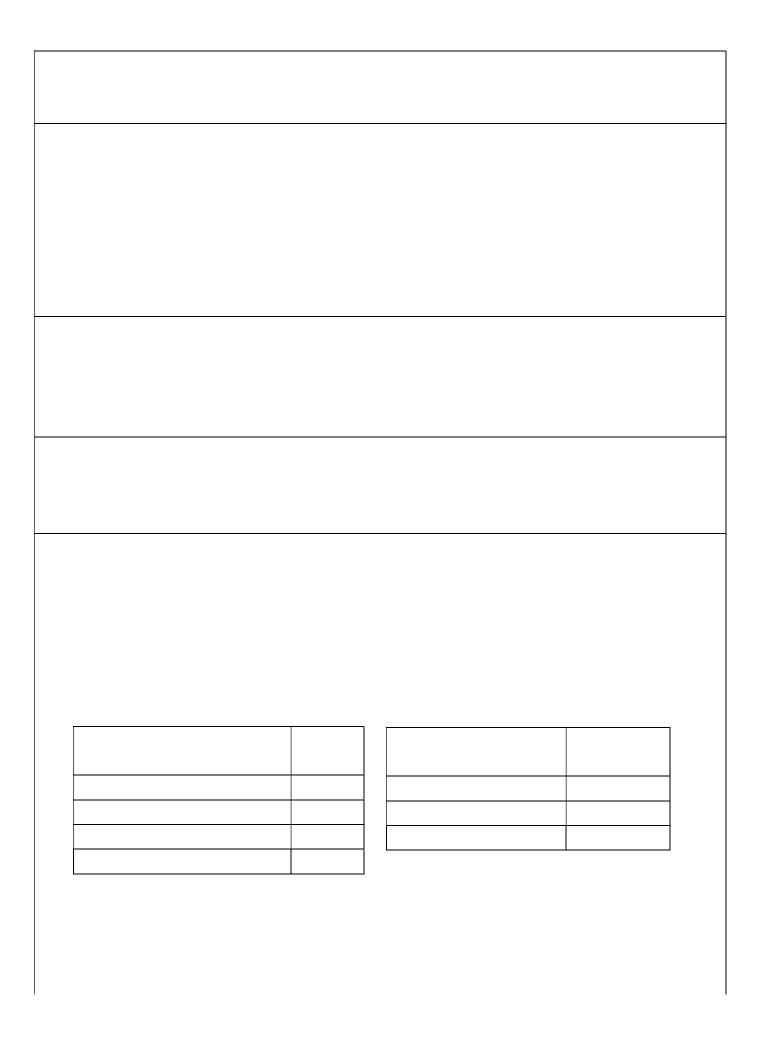
数学プログラム	

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Tab

Standards for Mathematics Program (Entrants of 2022)

Refer to

Students

credit for The cred counted t When th

* Stude 1 license

Total

rogram for requirements for attending the course.

ded in other programs and schools, and in other universities, in addition to the class subjects listed in this table, and the e of the Mathematics Program certifies is accepted as the required credit for graduation.

ematics Education I" and "Introduction to Mathematics Education II" that are provided by the School of Education is

for the subject category of "Specialized Subjects").

gram allows it, students can take class subjects before the period defined in the class subject table.

Туре													
	Basic Courses in University	In											
l s		4	1				1			1)			
bject	cts	Ü				Poreign Languages: Basic Studies I			0				
tion Subject	1 Subjects	4	elect one language from		4	Foreign Languages: Basic Studies II	1	Elective/required	0	0			
Education Subject	ommon Subjects	4	en Foreign Languages elect one language from German, French, Spanish, Russian, Chinese and Korean)		4			Elective/required	0 0	0			
arts Education Subject	Common Subjects	1	elect one language from German, French, Spanish,			Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language	1	Elective/required		_			
al Arts Education Subjects	Common Subjects		elect one language from German, French, Spanish,			Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences	1 1 2	Elective/required Required	2	0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean)			Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming	1 1 2 2 2			0			
Liberal Arts Education Subject		Info	elect one language from German, French, Spanish,	4		Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer	1 1 2 2 2 2		2	0 0			
Liberal Arts Education Subject		Info	elect one language from German, French, Spanish, Russian, Chinese and Korean)	4	2	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming	1 1 2 2 2 2 2	Required	2	0 0 0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean)		2	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming Fundamental Date Science	1 1 2 2 2 2 2 2	Required Elective/required	2	0 0 0 0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean) rmation and Data Science Courses Health and Sports Courses		2 2	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming Fundamental Date Science From "Health and Sports Courses"	1 1 2 2 2 2 2 2 2 1 or 2	Required Elective/required	0	0 0 0 0 0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean)		2	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming Fundamental Date Science From "Health and Sports Courses" From "Social Cooperation Courses"	1 1 2 2 2 2 2 2 2 1 or 2	Required Elective/required	② 〇 〇	0 0 0 0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean) rmation and Data Science Courses Health and Sports Courses		2 2	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming Fundamental Date Science From "Health and Sports Courses" From "Social Cooperation Courses" Linear Algebra I	1 1 2 2 2 2 2 2 1 or 2 1 or 2	Required Elective/required	0 0	0 0 0 0 0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean) rmation and Data Science Courses Health and Sports Courses	((2 2 2 20)	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming Fundamental Date Science From "Health and Sports Courses" From "Social Cooperation Courses" Linear Algebra I Seminar in Linear Algebra I	1 1 2 2 2 2 2 2 1 or 2 1 or 2	Required Elective/required	② O	0 0 0 0 0 0			
Liberal Arts Education Subject			elect one language from German, French, Spanish, Russian, Chinese and Korean) Transition and Data Science Courses Health and Sports Courses cial Cooperation Courses (Note 5)		2 2 2 20)	Foreign Languages: Basic Studies II Foreign Languages: Basic Studies III Foreign Languages: Basic Studies IV I, II, III and IV must be the same language Introduction to Information and Data Sciences Computer Programming Intelligence and Computer Ground zero programming Fundamental Date Science From "Health and Sports Courses" From "Social Cooperation Courses" Linear Algebra I	1 1 2 2 2 2 2 2 1 or 2 1 or 2	Required Elective/required Elective/required Free elective	0 0	0 0 0 0 0			

- (Note 1) e indicated semester represents that in which students typically take the subject. It is permitted to take the subject in the same (first or second) semester in the following however, it is required to confirm the details in syllabus for that academic year, because the subject might be provided in a different semester or term.
- (Note 2) is required to earn 4 credits in "Human & Social Science Subjects" and 4 credits in "Natural Science Subjects". Students who want to acquire an educational personnel ification must take the subject "Japanese Constitution" in the "Human & Social Science Subjects".
 redits earned through the subject "Advanced English for Communication", "Foreign Languages: Intensive Studies" and "Overseas Language Seminar (German, French,

ish, Russian, Chinese, and Korean)" in "Foreign Languages" are accepted as the credits required for "Human & Social Science Subjects

- nievement in a foreign language skill test might also be accepted as credit. For the details, refer to the description of English subjects in Liberal Arts Education and the "Credit based on Achievement in Foreign Language Skill Tests" in the Student Handbook. (Note 3)
- e credit for "Basic English Usage I" and "Basic English Usage II" is accepted as that for the category of "Any subject". (Note 4)
- credit of the subject "Social Cooperation Courses" is accepted as credit for the category of "Any subject".
- "Specialized Education Subjects" listed in the next page and after * Note fo

eral Arts Education Subjects)

o achieve the 54 credits required for the "Specialized Subjects", it is required to earn 26 or more credits for elective required subjects and free elective subjects, as well as redits for required subjects and 18 credits for elective required subjects.

The credit for the subjects "Introduction to Mathematics Education I" and "Introduction to Mathematics Education II" that are provided in School of Education is counted as (Note 6)

lit for the "Specialized Subjects

- (Note 7) r the 11 class subjects of "Specialized Subjects", for which lectures and exercises are provided in pairs, it is required to earn 16 or more credits for 4 or more pairs of
- (Note 8) e subject "Network and Algebra" is provided in the 7th or 8th semester.
- ne subject "Topics in Mathematics" is provided in the form of such subjects as "Topics in Algebra", "Topics in Geometry", "Topics in Analysis" and "Topics in Probability Statistics". (Note 9)
- (Note 10) e classes in "Special Lectures in Mathematics" are provided as an integrated course within a certain period of time (after the 5th semester; mainly after the 7th semester).
- (Note 11) ecause 128 credits are required for graduation, it is required to earn not only the required credits for each subject category (121 credits in total that consist of 34 credits in ral Arts Education Subjects and 87 credits in Specialized Education Subjects), but 128 or more credits in total regardless of the categorization of Liberal Arts Education iects and Specialized Education Subjects.
 - wever, the credits for the subjects described below are not accepted as required credit for graduation: For the details of subjects related to educational personnel
 - ification, refer to the list of required credits in "Acquisition of Educational Personnel Certification" in the Student Handbool
 - ny credit for subjects only related to educational personnel certification, except for "Introduction to Mathematics Education I" and "Introduction to Mathematics Education II
 - Specialized Subjects" and "Specialized Subjects" provided in the other programs of the School of Science (except those that are admitted by the faculty committee of
 - Mathematics Program)
 asic Specialized Subjects" and "Specialized Subjects" provided by the other programs in other schools (except those that are admitted by the faculty committee of the nematics Program)



A cademic achievements of Mathmatics Program Relationships between the evaluation items and evaluation criteria

		A cademic achievements		Evaluation criteria	
		Evaluation items	Excellent	Very Good	Good
	(1)	is a base of modern mathematics. Being able to find and explain issues from	Having superb understanding on classical basic theory of modern mathematics. Being able to find and explain issues from specific events to the superb level.	Having well understanding on classical basic theory of modern mathematics. Being able to find and explain issues from specific events to the high level.	Understanding classical basic theory of modern mathematics. Being able to find and explain issues from specific events.
lding	(2)	modern mathematics established on	Having a very superb level of understanding on primary theory of modern mathematics established on classical theory.		Having a certain level of understanding on primary theory of modern mathematics established on classical theory.
Understanding	(3)	advanced theories as an extension of core	Having very advanced knowledge on advanced theory of modern mathematics and being able to have a vision with very wide eyesight.	Having advanced knowledge on advanced theory of modern mathematics and being able to have a vision with wide eyesight.	Having a certain knowledge on advanced theory of modern mathematics and being able to have a vision.
and		nistorical concerns that numan and society	To acquire advanced knowledge of topic relevant to modern and historical concerns that human and society face through variety of classes. Also, to be able to precisely explain about the topics.	To acquire advanced knowledge of topic relevant to modern and historical concerns that human and society face through variety of classes. Also, to be able to explain about the topics.	To acquire advanced knowledge of topic relevant to modern and historical concerns that human and society face through variety of classes. Also, to be able to explain about the topics.
Knowledge	(5)	basic studying according to each subject	explain logical framework and system of basic studying according to each subject and necessary	Being able to fully understand, learn and explain logical framework and system of basic studying according to each subject and necessary knowledge and skills for constructing learning.	Being able to understand, learn and explain logical framework and system of basic studying according to each subject and necessary knowledge and skills for constructing learning.
	(6)		Able to understand, learn, and explain the necessity of college education, career education, and a code of ethics especially well.	Able to sufficiently understand, learn, and explain the necessity of college education, career education, and a code of ethics.	Able to understand, learn, and explain the necessity of college education, career education, and code of ethics.

		A cademic achievements		Evaluation criteria								
		Evaluation items	Excellent	Very Good	Good							
	(1)	To acquire basic mathematical abilities (Ability to understand concepts, calculation ability, argumentation ability).	1. Being able to understand the contents of definition of basic and mathematical concepts and to explain them giving some examples. 2 Being able to logically carry out transformation of numerical expressions and propositions. 3. Being able to understand and prove basic propositions	Being able to logically carry out basic calculation with formulae and transformation of propositions. Being able to state basic concept definition and to give typical examples.	Being able to carry out basic calculation with formulae and transformation of propositions.							
Abilities and Skills	(2)	To acquire skills to formulate and solve mathematical questions.	Being able to collect information even on issues difficult to find solutions by themselves with various ways such as literature references, discussion with friends or seniors, information equipment, questioning teachers and to make reports. Being able to explain others the basic parts of the acquired results on issues or problems. Being able to logically, correctly and straightforwardly explain others the basic parts of the acquired results on issues or problems.	Being able to collect information even on issues difficult to find solutions by themselves with various ways such as literature references, discussion with friends or seniors, information equipment, questioning teachers and to make reports. Being able to explain others the basic parts of the acquired results on issues or problems.	Being able to collect information even on issues difficult to find solutions by themselves with various ways such as literature references, discussion with friends or seniors, information equipment, questioning teachers and to make reports.							
Ał		them, to be able to process, output and input information, as well as to utilize information appropriately.	Being able to use various kinds of software including programming languages, analysis and graphics and to operate computers and networks.	To be able to use various software and to control computers and networks.	To be able to use software designed for document preparation or formula manipulation. Also to be able to basically operate computers and networks.							
	(4)	Being able to conduct daily communication orally or in papers using foreign languages.	Being able to conduct daily communication orally or in papers using foreign languages at a very high level.	Being able to conduct daily communication orally or in papers using foreign languages at a high level.	Being able to conduct daily communication orally or in papers using foreign languages.							
	(5)	Through practice of sports, being able to explain the necessity of physical strenth and health promotion.	Being able to practice sports and explain the necessity of health promotion and fitness at a very high level.	Being able to practice sports and explain the necessity of health promotion and fitness at a high level.	Being able to practice sports and explain the necessity of health promotion and fitness.							
	(1)	Acquiring a ability to think logically.	The ability to promote discussion by raising solid foundation. The ability to find solutions by making logical thought from hypotheses. The ability to logically find out the reason of unsuccessful trial	Having two abilities among following ones. 1. the ability of promoting discussion giving specific reasons. 2. the ability to pierce results through logical thinking from hypotheses. 3. the ability to find the logical reasons of unsuccessful trials.	Having one ability among following ones. 1. the ability of promoting discussion giving specific reasons. 2. the ability to pierce results through logical thinking from hypotheses. 3. the ability to find the logical reasons of unsuccessful trials.							
bilities	(2)	To acquire ability to utilize mathematical thinking.	Being able to find out the essence of difficult concepts and to understand in their own way. 2 Being able to consider various phenomena mathematically and make them into abstraction, generalization and modeling. 3. Being able to return results from those abstracted, generalized and modeled phenomena into the former issues. 4. Being able to emulate assumable possibilities and to consider the solution of each of them. 5. The ability to find out common points from various matters and to deal them with unified methods.	Having two abilities among following ones. 1. being able to select essence from difficult concepts and understand in their own way. 2 being able to consider various matters mathematically and make them abstracted, generalized and modeled. 3. being able to return abstracted, generalized and modeled matters to former issues. 4. enumerating expected possibilities and considering each solution. 5. the ability of selecting common points from different matters and generally dealing with them.	Having one ability among following ones. 1. being able to select essence from difficult concepts and understand in their own way. 2 being able to consider various matters mathematically and make them abstracted, generalized and modeled. 3. being able to return abstracted, generalized and modeled matters to former issues. 4. enumerating expected possibilities and considering each solution. 5. the ability of selecting common points from different matters and generally dealing with them							

A cademic achievements		Evaluation criteria	
Evaluation items	Excellent	Very Good	Good

^{1.} The ability to listen to others opinions carefully

(3) To acquire the ability to understand sentences and communicate information.

Relationships between the evaluation items and class subjects

Weighted values of evaluation items in the subject	Weighted values of evaluation items	items in	evaluation items	items in	evaluation items	items in	Weighted values of evaluation items				

											E,	valuati	on ite								Total
							ilities	and Sk	kills					Comp	orehensive Abilities			5			weighte
Subject			Type of course		(3)	(4)	(5)	(1)	(.	2)	(;	3)	(-	4)	(5)	d values of
Classification	Subject Name	Credits	registrat	Grade	Weighted) A / - ! - ! - ! !	Weighted	NA/allalada al	Weighted		Weighted) A (- ! - d - t d	Weighted) A / - ! - d - t d	Weighted	VA (all alaka al	Weighted) A / - ! - ! !	Weighted) A / - ! - d- + d	evaluati
			ion		values of evaluation		evaluation	values of	evaluation	Weighted values of	values of evaluation	Weighted values of	evaluation	values of	evaluation	values of	evaluation		evaluation	Weighted values of	on
					items in the	evaluation items	items in the	evaluation items	items in the	evaluation items	items in the	evaluation items	items in the	evaluation items		evaluation items	items in the	evaluation items	items in the	evaluation items	items in
					subject	iteris	subject	Iteris	subject	Iteris	subject	rteris	subject	Itens	subject		subject	Iteris	subject	Itais	the
Liberal Arts Education	Seminar in Linear Algebra	1	Required	1																	100
Liberal Arts	• •																				100
Education	Linear Algebra	2	Required	2																	100
Liberal Arts Education	Seminar in Linear Algebra	1	Required	2																	100
Specialized	Introduction to	2	Dominod	1																	100
Education	Mathematics		Required	ļ ,																	100
Specialized Education	Introduction to Information Mathematics	2	Elective/ required	2																	100
Specialized	Introduction to Physics	2	Elective/	1																	100
Éducation	A Distriction to District		required																		-
Specialized Education	Introduction to Physics B	2	Elective/ required	2																	100
Specialized	Introduction to	2	Elective/	1																	100
Education	Chemistry A		required																		
Specialized Education	Introduction to Chemistry B	2	Elective/ required	2																	100
Specialized	Introduction to	2	Elective/	1																	100
Education Specialized	Biological Sciences A Introduction to		required																		100
Education	Biological Sciences B	2	Elective/ required	2																	100
Specialized	Introduction to Earth	2	Elective/	1																	100
Education Specialized	and Planetary Sciences A Introduction to Earth		required	•																	
Education	and Planetary Sciences B	2	Elective/ required	2																	100
Specialized	English Seminar on	1	Elective/	4			100	1													100
Education Specialized	Mathematics		required	-			100	<u>'</u>													
Éducation	Analysis I	2	Required	1																	100
Specialized	Exercises in Algebra I	1	Required	1																	100
Education Specialized	-																				
Éducation	Analysis II	2	Required	2																	100
Specialized	Exercises in Algebra II	1	Required	2																	100
Education Specialized																					
Éducation	Analysis III	2	Required	3																	100
Specialized Education	Exercises in Algebra III	1	Required	3																	100
Specialized	A maluraia IV		Damila I																		100
Éducation	Analysis IV	2	Required	4																	100
Specialized Education	Exercises in Algebra IV	1	Required	4																	100
Specialized Education	Algebra I	2	Required	3																	100

											E,	valuati	on ite	ms							Total
						Ab	ilities	and Sk	kills					Comp	rehens	sive Ak	oilities	5			weighte
Subject			Type of course		(3)	(-	4)	(5)	(1)	(.	2)	(,	3)	(-	4)	(5)	d values of
Classification	Subject Name	Credits	registrat	Grade	Weighted values of	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted values of	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	evaluati
			ion		evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	on
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Specialized Education	Exercises in Algebra I	1	Required	3	subject		subject		subject		subject		subject		subject		subject		subject		100
Specialized Education	Algebra II	2	Required	4																	100
Specialized	Exercises in Algebra II	1	Required	4																	100
Education Specialized Education	Fundamental Concepts of Mathematics I	2	Required	3																	100
Specialized	Exercises in	1	Required	3																	100
Education Specialized	Fundamental Concepts Fundamental Concepts	2	Required	4																	100
Education Specialized	of Mathematics II Exercises in	1	Required	4																	100
Education Specialized	Fundamental Concepts Exercises in	2	Required	3	50	1															100
Education Specialized	Mathematical Software Special Study of		·			1					1.4		1.4		1.4	4	1.4	1	1.4	1	
Éducation	Mathematics and Informatics for Graduation	5	Required	7 8	10	1					14	1	14	1	14	1	14	1	14	1	100
Specialized Education	Algebra	2	Elective/ required	5																	100
Specialized Education	Exercises in Algebra	2	Elective/ required	5																	100
Specialized Education	Algebra	2	Elective/ required	6																	100
Specialized Education	Exercises in Algebra	2	Elective/ required	6																	100
Specialized Education	Geometry	2	Elective/ required	5																	100
Specialized Education	Exercises in Geometry	2	Elective/ required	5																	100
Specialized Education	Geometry	2	Elective/ required	6																	100
Specialized Education	Exercises in Geometry	2	Elective/ required	6																	100
Specialized Education	Analysis	2	Elective/ required	5																	100
Specialized Education	Exercises in Algebra	2	Elective/ required	5																	100
Specialized Education	Analysis	2	Elective/ required	5																	100
Specialized Education	Exercises in Algebra	2	Elective/ required	5																	100
Specialized Education	Analysis	2	Elective/ required	6																	100
Specialized Education	Exercises in Algebra	2	Elective/ required	6																	100

				Evaluation real												Total					
					Abilities and Skills								Comp	rehens	sive Ak	oilities	5			weighte	
Culpinat			Type of		(3)	(4)	(5)	(1)	(2)	(;	3)	(-	4)	(5)	d values
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Ciassilication			ion		values of evaluation	Weighted values of	values of	Weighted values of	values of evaluation	Weighted values of	values of	Weighted values of	values of	Weighted values of	values of evaluation	Weighted	values of	Weighted values of	values of evaluation	Weighted	on
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					the subject	items	the subject	items	the subject	items	the subject	items	the subject	items	the subject		the subject	items	the subject	items	the
Specialized	Analysis	2	Elective/	6	Subject		Jaabjoot		Sasjeet		Sasjeet		Sasjeet		Subject		Sasjeet		Sasjeet		100
Education			required	0																	-
Specialized Education	Exercises in Algebra	2	Elective/ required	6																	100
Specialized	Mathematics for	2	Elective/	4																	100
Education Specialized	Computation Exercises in Mathematics		required	-																	-
Education	for Computation	2	Elective/ required	4	50	1															100
Specialized	Mathematics for	2	Elective/	5																	100
Education Specialized	Computation Exercises in Mathematics		required Elective/																		
Education	for Computation	2	required	5	50	1															100
Specialized	Probability and	2	Elective/	5																	100
Education Specialized	Mathematical Statistics Exercises in Probability		required Elective/																		
Education	and Mathematical	2	required	5																	100
Specialized	Algebra	2	Free	7																	100
Education Specialized	<u> </u>		elective Free																		
Education	Algebra	2	elective	8																	100
Specialized	Geometry	2	Free	7																	100
<u>Éducation</u> Specialized	,		elective Free																		
Éducation	Geometry	2	elective	8																	100
Specialized	Elementary nonlinear	2	Free	6																	100
Education Specialized	studies		elective Free																		
Éducation	Mathematical Analysis	2	elective	7																	100
Specialized Education	Mathematical Analysis	2	Free elective	8																	100
Specialized	Probability and		Free																		100
Éducation	Mathematical Statistics	2	elective	6																	100
Specialized Education	Probability and Mathematical Statistics	2	Free elective	8																	100
Specialized			Free		F0	1															100
Education	Data Science	2	elective	4	50	1															100
Specialized Education	Network and Algebra	2	Free elective	7 8	50	1															100
Specialized	Mathematics for		Free		F0	1															100
Éducation	Modeling and Simulation	2	elective	6	50	1															100
Specialized Education	Theory of Complex Systems	2	Free elective	7	50	1															100
Specialized	Mathematics for		Free	0	F0	1															100
Éducation	Computation	2	elective	8	50	1															100
Specialized	Mathematics Internship	1	Free elective	5	100	1															100
Education	'	L	elective																		

	Subject Name					Evaluation tono												Total			
					Abilities and Skills						Comprehensive Abilities								weighte		
Subject		Crodite	Type of		(3)	(-	4)	(!	5)	(1)	(2	2)	(,	3)	(-	4)	(.	5)	d values
Classification			course registrat	1 (1/2/14)	Grade	Weighted	\Moidhtad	Weighted	Weighted	Weighted	\Moighted	Weighted	\Moightod	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted
			ion			evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of	evaluation	values of
						evaluation items	items in the	evaluation items	items in the	evaluation items		evaluation items					items in the	evaluation items	items in the	mens	items in
					subject		subject		subject		subject		subject		subject		subject		subject		the
Specialized Education	Topics in Mathematics	2	Free elective	7 8																	100

Curriculum Map of Mathematics

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