

Sapienza Università di Roma

Mathematics, master

1. [Home](#)
2. [2020/2021](#)
3. [Mathematics](#)
4. Study plan





Study plan

- [Study plan](#)
- [Programme Regulations](#)
- [Programme Regulations Description](#)

Algebra e Geometria

First year

Orientamento unico





Course	Semester	CFU	SSD	Language
1031352 - INSTITUTIONS OF SUPERIOR ALGEBRA	First semester	9	MAT/02	
1031354 - INSTITUTIONS OF SUPERIOR GEOMETRY	First semester	9	MAT/03	
- A SCELTA DELLO STUDENTE	First semester	6		
1031344 - INSTITUTIONS OF SUPERIOR ANALYSIS	First semester	9	MAT/05	
Gruppo opzionale affine per Algebra e Geometria e per Analisi	Go to group			
Gruppo opzionale istituzionale applicato per Algebra e Geometria e per Didattica e Storia	Go to group			

Orientamento unico

Course	Semester	CFU	SSD	Language
Gruppo opzionale analitico per Algebra e Geometria	Go to group		MAT/05	
Gruppo opzionale algebrico-geometrico per Algebra e Geometria	Go to group			
Gruppo opzionale applicato per Algebra e Geometria	Go to group			

Second year

Orientamento unico

Course	Semester	CFU	SSD	Language
- A SCELTA DELLO STUDENTE	First semester	6		
AAF1149 - OTHER USEFUL SKILLS FOR INCLUSION IN THE WORLD OF WORK	First semester	3		
AAF1778 - Scientific English	First semester	4		
AAF1027 - FINAL EXAM	Second semester	29		
Gruppo opzionale algebrico-geometrico per Algebra e Geometria	Go to group			
Gruppo opzionale applicato per Algebra e Geometria	Go to group			
Gruppo opzionale analitico per Algebra e Geometria	Go to group		MAT/05	



Analisi

First year

Orientamento unico

Course	Semester	CFU	SSD	Language
1031344 - INSTITUTIONS OF SUPERIOR ANALYSIS	First semester	9	MAT/05	
- A SCELTA DELLO STUDENTE	First semester	6		

Orientamento unico

Course	Semester	CFU	SSD	Language
1031366 - PARTIAL DIFFERENTIAL EQUATION	Second semester	6	MAT/05	
1031359 - FUNCTIONAL ANALYSIS	Second semester	6	MAT/05	
Gruppo opzionale affine per Algebra e Geometria e per Analisi	Go to group			
Gruppo opzionale istituzionale applicato per Analisi	Go to group			
Gruppo opzionale istituzionale teorico per Analisi	Go to group			
Gruppo opzionale affine per Analisi	Go to group			
Gruppo opzionale analitico-geometrico per Analisi	Go to group			

Second year



Orientamento unico

Course	Semester	CFU	SSD	Language
- A SCELTA DELLO STUDENTE	First semester	6		
AAF1149 - OTHER USEFUL SKILLS FOR INCLUSION IN THE WORLD OF WORK	First semester	3		
AAF1778 - Scientific English	First semester	4		
AAF1027 - FINAL EXAM	Second semester	29		
Gruppo opzionale affine per Analisi	Go to group			
Gruppo opzionale analitico-geometrico per Analisi	Go to group			

[Didattica e storia](#)





First year

Orientamento unico

Course	Semester	CFU	SSD	Language
- A SCELTA DELLO STUDENTE	First semester	6		
10595856 - Foundations of Complementary Mathematics	Second semester	9	MAT/04	
Gruppo opzionale istituzionale teorico per Didattica e Storia	Go to group			
Gruppo opzionale istituzionale affine per Didattica e Storia	Go to group			
Gruppo opzionale affine per Didattica e Storia	Go to group			
Gruppo opzionale istituzionale applicato per Algebra e Geometria e per Didattica e Storia	Go to group			
Gruppo opzionale applicato per Didattica e Storia	Go to group			
Gruppo opzionale teorico per Didattica e Storia	Go to group			
Gruppo opzionale didattico per Didattica e Storia	Go to group		MAT/04	







Second year

Orientamento unico









Course	Semester	CFU	SSD	Language
- A SCELTA DELLO STUDENTE	First semester	6		
AAF1149 - OTHER USEFUL SKILLS FOR INCLUSION IN THE WORLD OF WORK	First semester	3		
AAF1778 - Scientific English	First semester	4		
AAF1027 - FINAL EXAM	Second semester	29		
Gruppo opzionale applicato per Didattica e Storia	Go to group			
Gruppo opzionale didattico per Didattica e Storia	Go to group		MAT/04	
Gruppo opzionale teorico per Didattica e Storia	Go to group			

Optional Groups


Gruppo opzionale algebrico-geometrico per Algebra e Geometria: The student must acquire 18 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031361 - ALGEBRAIC GEOMETRY	First year	Second semester	6	MAT/03	
1022837 - RIEMANNIAN GEOMETRY	First year	Second semester	6	MAT/03	
1031836 - DISCRETE MATHEMATICS	First year	Second semester	6	MAT/02	
1022838 - SUPERIOR GEOMETRY	Second year	First semester	6	MAT/03	
1031362 - ALGEBRAIC TOPOLOGY	Second year	First semester	6	MAT/03	
1031358 - SUPERIOR ALGEBRA	Second year	First semester	6	MAT/02	






Gruppo opzionale analitico per Algebra e Geometria: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031385 - APPLIED ANALYTICAL MODELS	First year	First semester	6	MAT/05	
1031366 - PARTIAL DIFFERENTIAL EQUATION	First year	Second semester	6	MAT/05	
1031359 - FUNCTIONAL ANALYSIS	First year	Second semester	6	MAT/05	
10593295 - Calculus of Variations	First year	Second semester	6	MAT/05	
1031360 - SUPERIOR ANALYSIS	Second year	First semester	6	MAT/05	
10593293 - Fourier Analysis	Second year	First semester	6	MAT/05	
10593299 - Control Theory	Second year	First semester	6	MAT/05	
10595855 - Nonlinear Analysis	Second year	First semester	6	MAT/05	






Gruppo opzionale istituzionale applicato per Algebra e Geometria e per Didattica e Storia: The student must acquire 9 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031355 - PROBABILITY INSTITUTIONS	First year	First semester	9	MAT/06	


Gruppo opzionale istituzionale applicato per Algebra e Geometria e per Didattica e Storia: The student must acquire 9 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031383 - INSTITUTIONS OF NUMERICAL ANALYSIS	First year	First semester	9	MAT/08	
1031353 - INSTITUTIONS OF MATHEMATICAL PHYSICS	First year	Second semester	9	MAT/07	
1031355 - PROBABILITY INSTITUTIONS	First year	First semester	9	MAT/06	
1031383 - INSTITUTIONS OF NUMERICAL ANALYSIS	First year	First semester	9	MAT/08	
1031353 - INSTITUTIONS OF MATHEMATICAL PHYSICS	First year	Second semester	9	MAT/07	




Gruppo opzionale applicato per Algebra e Geometria: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031365 - DYNAMICAL SYSTEMS	First year	Second semester	6	MAT/07	
1031451 - STOCHASTIC PROCESSES	First year	Second semester	6	MAT/06	
10595860 - Mathematical methods in Statistical Mechanics	First year	Second semester	6		
1044640 - Stochastic calculus with applications	Second year	First semester	6	MAT/06	
10596056 - Mathematical methods in quantum mechanics	Second year	First semester	6	MAT/07	




Gruppo opzionale affine per Algebra e Geometria e per Analisi: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
10589497 - Elements of theoretical physics	First year	First semester	6	FIS/02	




Gruppo opzionale affine per Algebra e Geometria e per Analisi: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031367 - THEORY OF AUTOMATA	First year	First semester	6	INF/01	
10589497 - Elements of theoretical physics	First year	First semester	6	FIS/02	
1031367 - THEORY OF AUTOMATA	First year	First semester	6	INF/01	




Gruppo opzionale istituzionale applicato per Analisi: The student must acquire 18 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031383 - INSTITUTIONS OF NUMERICAL ANALYSIS	First year	First semester	9	MAT/08	
1031355 - PROBABILITY INSTITUTIONS	First year	First semester	9	MAT/06	
1031353 - INSTITUTIONS OF MATHEMATICAL PHYSICS	First year	Second semester	9	MAT/07	












Gruppo opzionale istituzionale teorico per Analisi: The student must acquire 9 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031354 - INSTITUTIONS OF SUPERIOR GEOMETRY	First year	First semester	9	MAT/03	
1031352 - INSTITUTIONS OF SUPERIOR ALGEBRA	First year	First semester	9	MAT/02	
10595859 - Foundations of Algebra and Geometry	First year	First semester	9		




Gruppo opzionale analitico-geometrico per Analisi: The student must acquire 12 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1022837 - RIEMANNIAN GEOMETRY	First year	Second semester	6	MAT/03	
1031360 - SUPERIOR ANALYSIS	Second year	First semester	6	MAT/05	
10595855 - Nonlinear Analysis	Second year	First semester	6	MAT/05	


Gruppo opzionale affine per Analisi: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031385 - APPLIED ANALYTICAL MODELS	First year	First semester	6	MAT/05	
10593295 - Calculus of Variations	First year	Second semester	6	MAT/05	
10595860 - Mathematical methods in Statistical Mechanics	First year	Second semester	6		
1031365 - DYNAMICAL SYSTEMS	First year	Second semester	6	MAT/07	
10593295 - Calculus of Variations	Second year	First semester	6	MAT/05	
10593293 - Fourier Analysis	Second year	First semester	6	MAT/05	
10593299 - Control Theory	Second year	First semester	6	MAT/05	
1022838 - SUPERIOR GEOMETRY	Second year	First semester	6	MAT/03	
1031358 - SUPERIOR ALGEBRA	Second year	First semester	6	MAT/02	
1044640 - Stochastic calculus with applications	Second year	First semester	6	MAT/06	
10596056 - Mathematical methods in quantum mechanics	Second year	First semester	6	MAT/07	








Gruppo opzionale istituzionale teorico per Didattica e Storia: The student must acquire 9 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031344 - INSTITUTIONS OF SUPERIOR ANALYSIS	First year	First semester	9	MAT/05	
1031352 - INSTITUTIONS OF SUPERIOR ALGEBRA	First year	First semester	9	MAT/02	
1031354 - INSTITUTIONS OF SUPERIOR GEOMETRY	First year	First semester	9	MAT/03	




Gruppo opzionale istituzionale teorico per Didattica e Storia: The student must acquire 9 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
10595859 - Foundations of Algebra and Geometry	First year	First semester	9		


Gruppo opzionale istituzionale affine per Didattica e Storia: The student must acquire 9 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031344 - INSTITUTIONS OF SUPERIOR ANALYSIS	First year	First semester	9	MAT/05	
1031352 - INSTITUTIONS OF SUPERIOR ALGEBRA	First year	First semester	9	MAT/02	
1031354 - INSTITUTIONS OF SUPERIOR GEOMETRY	First year	First semester	9	MAT/03	
10595859 - Foundations of Algebra and Geometry	First year	First semester	9		
1031383 - INSTITUTIONS OF NUMERICAL ANALYSIS	First year	First semester	9	MAT/08	
1031355 - PROBABILITY INSTITUTIONS	First year	First semester	9	MAT/06	
1031353 - INSTITUTIONS OF MATHEMATICAL PHYSICS	First year	Second semester	9	MAT/07	








Gruppo opzionale didattico per Didattica e Storia: The student must acquire 18 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031374 - Elementary mathematics from a higher point of view	First year	Second semester	6	MAT/04	
1023616 - Teaching of mathematics	First year	Second semester	6	MAT/04	
1031373 - FUNDAMENTALS OF MATHEMATICS	First year	Second semester	6	MAT/04	




Gruppo opzionale didattico per Didattica e Storia: The student must acquire 18 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031827 - SPACE AND SHAPE	Second year	First semester	6	MAT/04	



Gruppo opzionale teorico per Didattica e Storia: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031359 - FUNCTIONAL ANALYSIS	First year	Second semester	6	MAT/05	
1031836 - DISCRETE MATHEMATICS	First year	Second semester	6	MAT/02	
1022837 - RIEMANNIAN GEOMETRY	First year	Second semester	6	MAT/03	
1031374 - Elementary mathematics from a higher point of view	First year	Second semester	6	MAT/04	
1023616 - Teaching of mathematics	First year	Second semester	6	MAT/04	
1031373 - FUNDAMENTALS OF MATHEMATICS	First year	Second semester	6	MAT/04	
1031827 - SPACE AND SHAPE	Second year	First semester	6	MAT/04	

Gruppo opzionale applicato per Didattica e Storia: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
1031375 - MATHEMATICAL STATISTICS	First year	First semester	6	MAT/06	
1031444 - ANALYSIS OF DATA SEQUENCES	First year	Second semester	6	MAT/07	
1031829 - FUNDAMENTALS OF NUMERICAL ANALYSIS	Second year	First semester	6	MAT/08	

Gruppo opzionale affine per Didattica e Storia: The student must acquire 6 CFU from the exams below

Course	Year	Semester	CFU	SSD	Language
10589497 - Elements of theoretical physics	First year	First semester	6	FIS/02	
1031367 - THEORY OF AUTOMATA	First year	First semester	6	INF/01	
10589470 - Modern physics	First year	First semester	6	FIS/08	