### **Mathematics**

## Bachelor of Arts | College of Arts & Sciences | Quinnipiac University | Catalog Year 2023-2024

### Sample four-year plan

Shown below is one of many possible paths through the curriculum. Each student's individual academic plan is crafted in consultation with their academic advisor.

	Milestones: Earn 30 credits, meet v	vith your a	First Year dvisor at least	once a semester, and a GPA of 2.0 or higher.	
Fall Semes		Credits			Credits
EN 101	Introduction to Academic Reading and Writing UC Foundations Inquiry	3	EN102	Academic Writing/Research UC Foundations Inquiry	3
FYS 101	First-Year Seminar UC Foundations Inquiry	3	MA 152	Calculus II	4
MA 151	Calculus I UC Foundations Inquiry	4	MA 229	Linear Algebra	3
	University Curriculum (UC)	3		University Curriculum (UC)	3
	University Curriculum (UC)	3		University Curriculum (UC)	3
	Total	16		Total	16
Milestones Fall Semes	ca		our advisor a o-curricular of Spring Se		learning,
MA 251	Calculus III	4	MA 321	Abstract Algebra	3
MA 301	Foundations of Proof	3		Language 102 Satisfies CAS language requirement	3
	Language at 101 level	3		University Curriculum (UC)	3
	University Curriculum (UC)	3		University Curriculum (UC)	3
	University Curriculum (UC)	3		University Curriculum (UC)	3
	Total	16		Total	15
Mileston		. Meet with	Third Year  n your advisor  r research opp	r at least once per semester. Participate in study abroad, co portunities.	mplete
Fall Semes	ster	Credits	Spring Se	mester	Credits
MA xxx	Math elective	3	MA xxx	Math elective	3
	University Curriculum (UC)	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Total	15		Total	15
I	Milestones: Earn 120 credits and a GPA of 2.0		F <b>ourth Year</b> Complete po	ssible minor or double major and prepare for graduation.	
Fall Semes	ster	Credits	Spring Se		Credits
MA xxx	Math elective	3	MA 490	Senior Seminar	3
	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Open Elective	1		Open Elective	1
	Total	14		Total	14

Total number of credits to graduate: 120

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### ELEMENTARY EDUCATION TRACK

			First Year		
E HG .		_		once a semester, and a GPA of 2.0 or higher.	[ G 11:
Fall Semeste		Credits	Spring Sem		Credits
EN 101	Introduction to Academic Reading and Writing UC Foundations Inquiry	3	EN102	Academic Writing/Research UC Foundations Inquiry	3
FYS 101	First-Year Seminar UC Foundations Inquiry	3	MA 152	Calculus II	4
MA 151	Calculus I	4	MA 229	Linear Algebra UC Foundations Inquiry	3
PS 101	Introduction to Psychology University Curriculum (UC)	3	AR 158	Photography I	3
HS 131	US History to 1850	3	ED 140	Introduction to Public Education	1
	Total	16		Total	14
	ca	reer, and c	o-curricular op	·	
Fall Semeste	Foundations of Advanced Mathematics	Credits	Spring Sem	•	Credits
MA 301		3	MA 321	Abstract Algebra	3
MA 251	Multivariable Calculus  Language at 101 Level	3	MA xxx	Math elective Language 102	3
	Language at 101 Level	3		Satisfies CAS language requirement	3
ED 250	Diversity, Dispositions & Multicultural University Curriculum Social Science	3	ED 260	Social and Philosophical Foundations of Education	3
	University Curriculum (UC)	3		University Curriculum (UC)	3
	` /	-		Chrycistry Currection (CC)	3
	Total	16	Third Year	Total	15
Milestone Fall Semeste MA 341	Total es: Earn 90 credits and a GPA of 2.0 or higher i	16		Total  at least once per semester. Participate in study abroad, co- cortunities.	15
Fall Semeste	Total es: Earn 90 credits and a GPA of 2.0 or higher i	r. Meet wit nternship o	h your advisor or research opp Spring Sem	Total  at least once per semester. Participate in study abroad, co- portunities.  tester	15 mplete Credits
Fall Semesto MA 341	es: Earn 90 credits and a GPA of 2.0 or higher i er Advanced Calculus	r. Meet wit nternship of Credits	h your advisor or research opp Spring Sem MA xxx	at least once per semester. Participate in study abroad, co portunities.  Math elective	15 mplete Credits 3
Fall Semeste MA 341 MA 365	es: Earn 90 credits and a GPA of 2.0 or higher i er Advanced Calculus Ordinary Differential Equations	r. Meet with the threshold of the thresh	h your advisor or research opp Spring Sem MA xxx ED 342+L	at least once per semester. Participate in study abroad, concortunities.  Total  at least once per semester. Participate in study abroad, concortunities.  Math elective  Advanced Learning and Teaching	15 mplete Credits 3 4
Fall Semeste MA 341 MA 365	rotal  es: Earn 90 credits and a GPA of 2.0 or higher  in a divanced Calculus  Ordinary Differential Equations  Teaching Developing Child  University Curriculum (UC)  University Curriculum (UC)	r. Meet with ternship of Credits 3 3 4 3	h your advisor or research opp Spring Sem MA xxx ED 342+L	Total  at least once per semester. Participate in study abroad, concortunities.  Total  at least once per semester. Participate in study abroad, concortunities.  Total  at least once per semester. Participate in study abroad, concortunities.  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)	To mplete  Credits  3  4  3  3
Fall Semeste MA 341 MA 365	Total  es: Earn 90 credits and a GPA of 2.0 or higher i  er  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC)	r. Meet with the nternship of Credits 3 3 4 3	h your advisor or research opp Spring Sem MA xxx ED 342+L	at least once per semester. Participate in study abroad, concortunities.  Mester  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science	To mplete  Credits 3 4 3 3
Fall Semesto MA 341 MA 365 ED 341+L	Total  es: Earn 90 credits and a GPA of 2.0 or higher iter  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC)  University Curriculum (UC)  Total	r. Meet with the nternship of Credits 3 3 4 3 3 4 16	h your advisor or research opp Spring Sem MA xxx ED 342+L ED 462	Total  at least once per semester. Participate in study abroad, concortunities.  Total  at least once per semester. Participate in study abroad, concortunities.  Total  at least once per semester. Participate in study abroad, concortunities.  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)	To mplete  Credits  3  4  3  3
Fall Semesto MA 341 MA 365 ED 341+L	es: Earn 90 credits and a GPA of 2.0 or higher  er  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC) University Curriculum (UC)  Total  Milestones: Earn 120 credits and a GPA of 2.0	r. Meet with the nternship of Credits 3 3 4 3 3 4 16	h your advisor or research opp Spring Sem MA xxx ED 342+L ED 462	Total  at least once per semester. Participate in study abroad, concortunities.  Bester  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)  Total	15 mplete Credits 3 4 3 3 3 16
Fall Semesto MA 341 MA 365 ED 341+L	es: Earn 90 credits and a GPA of 2.0 or higher  er  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC) University Curriculum (UC)  Total  Milestones: Earn 120 credits and a GPA of 2.0	r. Meet with ternship of Credits 3 3 4 3 16	h your advisor or research opp Spring Sem MA xxx ED 342+L ED 462  Fourth Year Complete pos	Total  at least once per semester. Participate in study abroad, concortunities.  Bester  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)  Total	To mplete  Credits  3  4  3  3
Fall Semesto MA 341 MA 365 ED 341+L	es: Earn 90 credits and a GPA of 2.0 or higher  er  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC) University Curriculum (UC)  Total  Milestones: Earn 120 credits and a GPA of 2.0 er	r. Meet with ternship control of the	h your advisor or research opp Spring Sem MA xxx ED 342+L ED 462  Fourth Year Complete pos	Total  at least once per semester. Participate in study abroad, concortunities.  Total  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)  Total  Sible minor or double major and prepare for graduation.  Total	To the second se
Fall Semesto MA 341 MA 365 ED 341+L	es: Earn 90 credits and a GPA of 2.0 or higher  er  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC)  University Curriculum (UC)  Total  Milestones: Earn 120 credits and a GPA of 2.0 er  Music and Disabilities Understanding Theater UC Fine Arts Physio Psychology	r. Meet with the nternship of Credits  3  4  3  16  Or higher Credits  3	h your advisor or research opp Spring Sem MA xxx ED 342+L ED 462 Fourth Year Complete pos Spring Sem MA 490	Total  at least once per semester. Participate in study abroad, concortunities.  Bester  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)  Total  ssible minor or double major and prepare for graduation.  Bester  Mathematics Senior Seminar  Social Studies in Primary Grades  Teaching in Inclusive Classroom	To the second of
Fall Semestor MA 341 MA 365 ED 341+L  Magnetic M	es: Earn 90 credits and a GPA of 2.0 or higher iter  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC) University Curriculum (UC)  Total  Milestones: Earn 120 credits and a GPA of 2.0 er  Music and Disabilities Understanding Theater UC Fine Arts	r. Meet with the nternship of Credits  3  3  4  3  16  Our higher Credits  3  3	h your advisor or research opp  Spring Sem  MA xxx  ED 342+L  ED 462  Fourth Year  Complete pos  Spring Sem  MA 490  ED 466	Total  at least once per semester. Participate in study abroad, concortunities.  tester  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science University Curriculum (UC)  Total  assible minor or double major and prepare for graduation.  tester  Mathematics Senior Seminar  Social Studies in Primary Grades	15 mplete Credits 3 4 3 3 16 Credits 4 3
Fall Semesto MA 341 MA 365 ED 341+L ME Fall Semesto MU 250 DR 101 PS 252	es: Earn 90 credits and a GPA of 2.0 or higher  er  Advanced Calculus Ordinary Differential Equations Teaching Developing Child University Curriculum (UC)  University Curriculum (UC)  Total  Milestones: Earn 120 credits and a GPA of 2.0 er  Music and Disabilities Understanding Theater UC Fine Arts Physio Psychology	r. Meet with the nternship of Credits  3  3  4  3  16  Our higher. Credits  3  3  3	h your advisor or research opp  Spring Sem  MA xxx  ED 342+L  ED 462  Fourth Year  Complete pos  Spring Sem  MA 490  ED 466  SPED 522	Total  at least once per semester. Participate in study abroad, concortunities.  Bester  Math elective  Advanced Learning and Teaching  Facilitating the Arts  Humanities  University Curriculum (UC)  Natural Science  University Curriculum (UC)  Total  ssible minor or double major and prepare for graduation.  Bester  Mathematics Senior Seminar  Social Studies in Primary Grades  Teaching in Inclusive Classroom	15 mplete Credits 3 4 3 3 16 Credits 4 3 3 3 3

Total number of credits to graduate: 122 $^{\star}$ 

## **Mathematics**

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# SECONDARY EDUCATION TRACK

	ION TRACK	EDUCAT	NDARY	SECO	
	once a semester, and a GPA of 2.0 or higher.	First Year dvisor at least	rith your a	Milestones: Earn 30 credits, meet v	
Credit	ester	Spring Sem	Credits	er	Fall Semest
3	Academic Writing/Research UC Foundations Inquiry	EN102	3	Introduction to Academic Reading and Writing UC Foundations Inquiry	EN 101
4	Calculus II	MA 152	3	First-Year Seminar UC Foundations Inquiry	FYS 101
3	Linear Algebra UC Foundations Inquiry	MA 229	4	Calculus I UC Personal Inquiry 2	MA 151
1	Introduction to Public Education	ED 140	3	Introduction to Psychology University Curriculum - Social Science; Required for certification	PS 101
3	Open Elective		3	US History University Curriculum - Humanities; Required for certification	HS xxx
14	Total		16	Total	
	_	o-curricular op		ca	Milestones Fall Semest
Credit		Spring Sem			
3	Abstract Algebra Social Foundations of Education	MA 321	3	Foundations of Advanced Mathematics	MA 301
3	UC Humanities;	ED 260	4	Multivariable Calculus	MA 251
3	Child and Adolescent Development Satisfies UC Social Science; Required for certification	PS 236	3	Diversity and Multiculturalism University Curriculum - Social Science	ED 250
3	Language 102 Satisfies CAS language requirement		3	Humanities University Curriculum; Required for certification	EN 2xx
4	Natural Science University Curriculum (UC)		3	Language at 101 level	
16	Total		16	Total	
mplete		r research opp	. Meet wit nternship o		Mileston
Credit	•	Spring Sem	Credits		Fall Semest
3	Math elective	MA xxx	3	Advanced Calculus	MA 341
3	Advanced Learning and Teaching Secondary	ED 343	3	Math elective	MA xxx
1	Field Study Learning and Teaching Secondary	ED 343L	3	Teaching Developing Child	ED 341
3	Facilitating the Arts	ED 462	1	Field Study: Teaching Devel. Child	ED 341L
3	University Curriculum (UC)		3	Fine Arts University Curriculum (UC)	
3	Open Elective		3	University Curriculum (UC)	
16	Total		16	Total	
	ssible minor or double major and prepare for graduation.	F <b>ourth Year</b> Complete pos		Milestones: Earn 120 credits and a GPA of 2.0	N
Credit		Spring Sem	Credits		
3	Mathematics Senior Seminar	MA 490	3	Math elective	MA xxx
1	Special Ed Field Lab	ED 452L	3	Reading Writing Across Curriculum	ED 409
3	Teaching in Inclusive Classroom	SPED 552	3	Teaching English Lang Learners	ED 477
4	Geometry (for graduate credit)	MA 580	1	Field Study Eng Lang Learners	ED 477L
	Mathematics Senior Seminar Special Ed Field Lab Teaching in Inclusive Classroom	Spring Sem MA 490 ED 452L SPED 552	Credits 3 3 3	Math elective Reading Writing Across Curriculum Teaching English Lang Learners	Fall Semest MA xxx ED 409 ED 477

Total number of credits to graduate: 124\*

2-3

**Total** 15-16

Open Elective

3

Total 14

Open Elective

Open Elective