

UNDERGRADUATE MAJOR: B.A. in Mathematics –with 7-12 Secondary Education Program 2021-2022
CREDITS REQUIRED IN MAJOR: 49

FOUNDATION/REQUIRED MAJOR COURSES (34 credits):

COURSE NUMBER	COURSE NAME	CREDIT S	PREREQUISITES
MAT 152	Calculus A	4	MAT 140 or appropriate College Level Math Accuplacer
MAT 153	Calculus B	4	MAT 152
MAT 252	Calculus C	4	MAT 153
MAT 281	Introduction to Probability	3	MAT 153
MAT 282	Statistical Inference	3	MAT 281
MAT 290	Foundations of Mathematics	4	MAT 153
MAT 295	Linear Algebra	4	MAT 153
MAT 350	Differential Equations	4	MAT 252
COS 160 & 170	Structured Problem Solving: Java & Lab	4	Meet math readiness

Pure Math Concentration (15 credits):

COURSE NUMBER	COURSE NAME	CREDIT S	PREREQUISITES
MAT 352	Real Analysis	3	MAT 252 & 290, or permission
MAT 371	College Geometry	3	MAT 290 or permission
MAT 395	Abstract Algebra	3	MAT 290 or permission
MAT	Math Modeling Course	3	Permission from faculty advisor
	At least one additional math course 260 or above excluding MAT 380	3-4	Depends on course

PROFESSIONAL EDUCATION PRE-INTERNSHIP REQUIREMENTS (15 credits):

COURSE NUMBER	COURSE NAME	CREDIT S	PREREQUISITES
EDU 100	Exploring Teaching	3	none
EDU 225	Child and Adolescent Development	3	WRI1
EDU 305	Foundations of Cultural and Linguistic Diversity	3	EDU 225
EDU 222	Foundations of Language and Literacy Development	3	EDU 225

SED 235	Students with Exceptionalities in General Education	3	
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PROFESSIONAL EDUCATION PRE-INTERNSHIP RECOMMENDED COURSES (6 credits):

COURSE NUMBER	COURSE NAME	CREDITS	PREREQUISITES
SED 300	Ethics and Youth with Exceptionalities	3	none
EDU 310	Purpose of Schooling in a Democracy	3	ENG 100 or ENG 104; and an EYE course

PROFESSIONAL EDUCATION REQUIREMENTS (24 credits):

COURSE NUMBER	COURSE NAME	CREDITS	PREREQUISITES
EDU 445	Student Teaching	6	Teacher education program, EDU 442
EDU 442	Seminar in Teaching, Learning, Assess	3	Teacher education program, Jr. standing
EDU 554	Secondary Mathematics Methods	3	Teacher education program, EDU 442
EDU 414	Improving Teaching in Content Areas	3	Teacher education program, EDU 442
EDU 410	Creating Positive Learning Environments	3	Teacher education program, EDU 442
EDU 546	Testing and Assessment I	3	Teacher education program, EDU 442
EDU 547	Testing and Assessment II	3	Teacher education program, EDU 546

MAJOR COURSES OVERLAPPING IN THE CORE:

CORE AREA	COURSE NUMBER	COURSE NAME	REQUIRED BY MAJOR?
QR	MAT 152	Calculus A	Yes
EISRC & INT	EDU 310	Purpose of Schooling in a Democracy	Yes
DIV	EDU 305	Foundations of Cultural and Linguistic Diversity	Yes

Program Declaration and Withdrawal

All students must formally declare their entry into a teacher education pathway by completing the Declaration and/or Dropping of Undergraduate Teacher Education Pathway Form through the registrar's

office. The form is located in the forms section of the Office of Registration Services. <https://usm.maine.edu/registration-services/1forms>

Academic Requirements

The minimum academic requirements to be a student in good standing in the Secondary Teacher Education Pathway are as follows:

- A grade of B- or better in all professional education coursework.
- A grade of C or better in content courses required for the area of teacher certification.
- An overall GPA of 3.0 or better.

Failure to maintain the above requirements may result in program dismissal. Appeals may be made in writing to the Director of Educator Preparation.

Students are required to complete and show documentation of the fingerprinting process outlined by the Maine Department of Education: <http://www.maine.gov/doe/cert/fingerprinting>.

Recommendation for Certification

Graduates who successfully complete all the Secondary Teacher Education Pathway requirements are eligible for recommendation for teacher certification in Maine. In order to be recommended for certification, students must complete the Recommendation for Certification form. Students who fail to meet the academic or professional requirements for the Secondary Teacher Education Pathway or choose not to pursue teacher certification may withdraw from the pathway and graduate with their major.

CORE CURRICULUM CODES

WRI 1 – Writing, Reading, & Inquiry 1

WRI 2 – Writing, Reading, & Inquiry 2

WRI 3 – Writing, Reading, & Inquiry 3

QR – Quantitative Reasoning

CE – Creative Expression

SCA – Socio-cultural Analysis

CI – Cultural Interpretation

SE – Science Exploration

EISRC – Ethical Inquiry, Social Responsibility, & Citizenship

DIV – Diversity

INT – International

EL – Engaged Learning

CAP – Capstone

Revised 3.15.21