

MERRIMACK COLLEGE

School of Education & Social Policy

STEM EDUCATION: EARLY CHILDHOOD EDUCATION (PREK-2) TEACHER EDUCATION PROGRAM

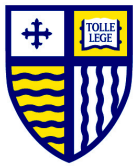
Student: _____ Advisor: _____ Class: _____

1st Major: **STEM Education** 2nd Major: **Education** 2nd Concentration (License): **Elementary Education**

STEM Education Requirements (44 Credits)*

STEM Foundational (Choose 6)	Credits	Grade	Notes
STM 1010 Foundations of STEM	4		
BIO 1028 Principles of Biology II	4		
CHM 1110 General Chemistry Or CHM 1210 Chemistry for Health Professions	4		
PHY 2201 General Physics Or PHY 2211 Physics I	4		
MTH 1217 Calculus I Or MTH 1314 Discrete Mathematics	4		
Technology or Engineering	4		
STEM Electives (Choose 3)	Credits	Grade	Notes
Life Sciences			
BIO 1027 Principles of Biology I	4		
BIO 2009 Environmental Science	4		
BIO 1106 Human Biology	4		
HSC 2300 Nutrition, Diet and Health	4		
SME 1104 Introduction to Physical Activity	4		
HSC 3302 Introduction to Public Health	4		
Physical Sciences			
AST 1101 Introduction to Astronomy	4		
CHM 1120 General Chemistry II Or CHM 1220 Chem. for the Health Prof. II	4		
PHY 2202 General Physics II Or PHY Physics II	4		
Mathematics			
MTH 1111 Basic Statistics	4		
MTH 1112 Adventures in Mathematics	4		
MTH 1217 Calculus I	4		
MTH 1218 Calculus II	4		
MTH 1314 Discrete Mathematics	4		
Technology / Engineering			
GEN 1001 Introduction to Engineering	4		
CSC 1510 Introduction to Information Technology	4		
CSC 2210 Introduction to Computational Science	4		
EEN 1177 Renewable Energy and Energy Efficiency Or EEN 1065 Introduction to Electricity and Electronics (for Non-Engineers)	4		
Practicum & Capstone	Credits		
STM 4000 STEM Practicum	4		
STM 3000 STEM Capstone	4		

*The School of Education and Social Policy reserves the right to revise program requirements as needed to meet state or college requirements.
These forms were updated 09/2016.



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TEACHER EDUCATION PROGRAM REQUIREMENTS (48 CREDITS)*

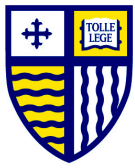
Teaching & Education (Take All)	Credits	Grade	Notes
EDU 2210 Child & Adolescent Development (Fulfills a SOSC and X in LS Core)	4		
EDU 2310 Introduction to Early Childhood Education	4		
EDU 3310 Teaching Reading & Language Arts	4		
EDU 3340 Teaching Mathematics & Technology	4		
EDU 3360 Teaching Science, Health & Physical Education	4		
EDU 4220 Differentiation & Inclusion (Formerly Diff. Instr. for the Incl. Class)	2		
EDU 4221 Strategies for Group Management (Formerly Class Management)	2		
EDU 4320 Teaching Social Studies	2		
EDU 4340 Children's Literature	2		
EDU 4500 Language Acquisition & Literacy Curriculum Development	4		
EDU 2500 Pre-Practicum I (and Seminar)	0		
EDU 2510 Pre-Practicum II (and Seminar)	0		
EDU 4582 Sheltered English Instruction	4		
EDU 4905 Practicum – Early Childhood Education (and Seminar) (Fulfills X in LS Core)	12		

SUBJECT MATTER KNOWLEDGE (SMK) COURSE LIST*

Categories	Grade	Course Options
Literature (Choose 1)		ENG 1500 Major British and World Authors (Fulfills AL in LS Core) ENG 1550 Major American Authors (Fulfills AL in LS Core) ENG 2050 Introduction to Literary Studies (Fulfills AL in LS Core)
American Civ. (Choose 1)		HIS 1106 U.S. History I (Fulfills H in LS Core) HIS 1107 U.S. History II (Fulfills H in LS Core) POL 1100 Politics of the U.S. (Fulfills SOSC and X in LS Core)
World Civ. (Choose 1)		HIS 1119 Euro Experience: Antiquity to Reformation (Fulfills H in LS Core) HIS 1120 Euro Experience: Early Modern to Present (Fulfills H in LS Core) POL 1500 Comparative Politics (Fulfills SOSC and D in LS Core)
Science		Talk to Your Advisor
Math (Take Both)		MTE 1410 Foundations of Mathematics I (Fulfills Q in LS Core) MTH 1412 Foundations of Mathematics II (Fulfills Q , STEM , and X in LS Core)

Advisor Notes

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PRACTICUM*

EDU 2500 **1st Pre-practicum Field Experience Curriculum, Methods & Materials (no credit)**

- 3.0 GPA
- Half of Education course completed
- Advisor approval

EDU 2510 **2nd Pre-practicum Field Experience Curriculum, Methods & Materials (no credit)**

- 3.0 GPA
- Successful completion of Communications & Literacy (01) MTEL (Reading and Writing subtests)
- MTEL score must be received by April 1. Scores can take up to 4 weeks to receive.
- Completion of EDU 2500

EDU 4903 **Practicum: Elementary Education (12 credits)**

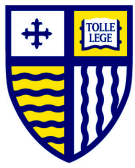
- 3.0 GPA
- Successful completion of all required MTELS
- MTEL score must be received by November 1. Scores can take up to 4 weeks to receive.
- Completion of EDU 2500 and EDU 2510

MTEL REQUIREMENTS*

MTEL Test	Date Passed	Notes
Communications & Literacy (01): Reading subtest		
Communications & Literacy (01): Writing subtest		
Foundations of Reading (90)		
General Curriculum (03): Math subtest		
General Curriculum (03): Multi-subject subtest		

- ✓ Students graduating with an Elementary Education Major must also take and pass a set of tests (the MTELS), required of all classroom teachers by the Commonwealth of Massachusetts.
- ✓ It is strongly encouraged that the Communications & Literacy (01) test is taken and passed by the end of the sophomore year, the Foundations of Reading (90) and General Curriculum (03) taken during the fall of junior year.
- ✓ All MTEL tests must be passed prior to entry into the student-teaching semester.

Advisor Notes



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SAMPLE COURSE PATHWAY:

STEM Education / Elementary Education*

FRESHMAN

Fall

1. STM 1010: Foundations of STEM
2. EDU 2110: Foundations & Principles of Education
3. FYW 1050: Introduction to College Writing (FYW)
4. PHL 1000: Introduction to Philosophy (PHL)

Spring

1. RTS: Christianity in Context (RTS)
2. EDU 2210: Child and Adolescent Development (SOSC)
3. EDU 2130: Diversity, Social Justice, & Ethics (D, E)
4. BIO 1027: Principles of Biology I

SOPHOMORE

Fall

1. EDU 3310: Teaching Reading & Language Arts
2. BIO 1028: Principles of Biology II
3. SMK: Lit (AL)
4. CHM 1110: General Chemistry

Spring

1. MTE 1410: Foundations of Mathematics I
2. EDU 3360: Teaching Science, Health & Physical Education
3. SMK: American Civ. (H)
4. MTH 1217: Calculus

JUNIOR

Fall

1. EDU 3210: Psychology of Learning and Assessment (X).
2. SMK: World Civ. (H)
3. EDU 3340: Teaching Math and Technology
4. MTH 1412: Foundations of Mathematics II

Spring

MTEL: Communications & Literacy (01)
Score Report By: April 1

1. EDU 4320 / EDU 4340
 2. Foreign Language (FL)
 3. MTH 1111: Basic Statistics
 4. PHY 2201: General Physics
- EDU 2500: Pre-Practicum I (and Seminar)

SENIOR

Fall

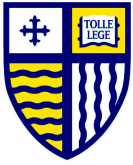
MTEL: Foundations of Reading (90) and
General Curriculum (03) – Score Report By: November 1

1. MTH 1112: Adventures in Mathematics
2. Technology or Engineering
3. STM 3000: Capstone / STM 4000: Practicum
4. EDU 4582: Sheltered English Instruction

Spring

1. EDU 4220 / EDU 4221
2. EDU 4903: Practicum (and Seminar)
3. EDU 4903: Practicum (and Seminar)
4. EDU 4903: Practicum (and Seminar)

EDU 2510: Pre-Practicum II (and Seminar)



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COURSE PATHWAY:*

FRESHMAN

Fall

1. _____
2. _____
3. _____
4. _____

Spring

1. _____
2. _____
3. _____
4. _____

SOPHOMORE

Fall

1. _____
2. _____
3. _____
4. _____

Spring

1. _____
2. _____
3. _____
4. _____

JUNIOR

Fall

1. _____
2. _____
3. _____
4. _____

Spring

*MTEL: Communications & Literacy (01)
Score Report By: April 1*

1. _____
2. _____
3. _____
4. _____

EDU 2500: Pre-Practicum I (and Seminar)

SENIOR

Fall

*MTEL: Foundations of Reading (90) and
General Curriculum (03) – Score Report By: November 1*

1. _____
2. _____
3. _____
4. **EDU 4582: Sheltered English Instruction**

Spring

1. **EDU 4220 / EDU 4221**
2. **EDU 4903: Practicum (and Seminar)**
3. **EDU 4903: Practicum (and Seminar)**
4. **EDU 4903: Practicum (and Seminar)**

EDU 2510: Pre-Practicum II (and Seminar)

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