

# MERRIMACK COLLEGE

## School of Education & Social Policy

### STEM EDUCATION: MODERATE DISABILITIES EDUCATION (PREK-8) TEACHER EDUCATION PROGRAM

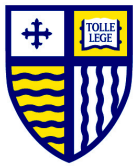
Student: \_\_\_\_\_ Advisor: \_\_\_\_\_ Class: \_\_\_\_\_

1<sup>st</sup> Major: **STEM Education**      2<sup>nd</sup> Major: **Education**      2<sup>nd</sup> Concentration (License): **Moderate Disabilities 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 <b>Or</b> CHM 1210 Chemistry for Health Professions	4		
PHY 2201 General Physics <b>Or</b> PHY 2211 Physics I	4		
MTH 1217 Calculus I <b>Or</b> 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 <b>Or</b> CHM 1220 Chem. for the Health Prof. II	4		
PHY 2202 General Physics II <b>Or</b> 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 <b>Or</b> EEN 1065 Introduction to Electricity and Electronics (for Non-Engineers)	4		
Practicum & Capstone	Credits		
STM 4000 STEM Practicum	4		
STM 3000 STEM Capstone	4		

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### TEACHER EDUCATION PROGRAM REQUIREMENTS (15 COURSES: 52 CREDITS)\*

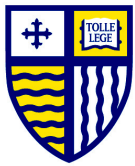
Teaching & Education (Take All)	Credits	Grade	Notes
EDU 2110 Foundations & Principles of Education	4		
EDU 2210 Child & Adolescent Development (Fulfills a <b>SOSC</b> and <b>X</b> in <b>LS Core</b> )	4		
EDU 3210 Psychology of Learning & Assessment (Fulfills <b>X</b> in <b>LS Core</b> )	4		
EDU 3310 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 4900 Practicum – Mod. Disabilities Education (and Seminar) (Fulfills <b>X</b> in <b>LS Core</b> )	12		

### SUBJECT MATTER KNOWLEDGE (SMK) COURSE LIST\*

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

#### Advisor Notes

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### PRACTICUM\*

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

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

**EDU 2510**     **2<sup>nd</sup> 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 4900**     **Practicum: Moderate Disabilities 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

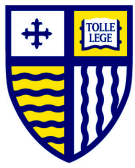
### MTEL REQUIREMENTS\*

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 a Moderate Disabilities 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 should be passed prior to entry into the student-teaching semester.
- ✓ All students should have a minimum of a 3.0 GPA prior to entry into the student-teaching semester.

#### Advisor Notes

Advisor Notes



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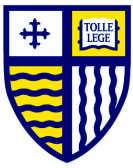
## School of Education & Social Policy

### SAMPLE COURSE PATHWAY:

#### STEM Education / Moderate Disabilities Education\*

<b>FRESHMAN</b>	Fall	1. STM 1010: Foundations of STEM	Spring	1. RTS: Christianity in Context (RTS)
		2. EDU 2110: Foundations & Principles of Education		2. EDU 2210: Child and Adolescent Development (SOSC)
		3. FYW 1050: Introduction to College Writing (FYW)		3. EDU 2130: Diversity, Social Justice, & Ethics (D, E)
		4. PHL 1000: Introduction to Philosophy (PHL)		4. BIO 1027: Principles of Biology I
<b>SOPHOMORE</b>	Fall	1. EDU 3310: Teaching Reading & Language Arts	Spring	1. MTE 1410: Foundations of Mathematics I
		2. BIO 1028: Principles of Biology II		2. EDU 3360: Teaching Science, Health & Physical Education
		3. SMK: Lit (AL)		3. SMK: American Civ. (H)
		4. CHM 1110: General Chemistry		4. MTH 1217: Calculus
<b>JUNIOR</b>	Fall	1. EDU 4500: Lang. Acquisition & Lit. Curriculum Development	Spring	<i>MTEL: Communications &amp; Literacy (01)</i> <i>Score Report By: April 1</i>
		2. SMK: World Civ. (H)		1. EDU 4320 / EDU 4340
		3. EDU 3340: Teaching Math and Technology		2. Foreign Language (FL)
		4. MTH 1412: Foundations of Mathematics II		3. MTH 1111: Basic Statistics
		5. EDU 3210: Psychology of Learning & Assessment		4. PHY 2201: General Physics
				EDU 2500: Pre-Practicum I (and Seminar)
<b>SENIOR</b>	Fall	<i>MTEL: Foundations of Reading (90) and</i> <i>General Curriculum (03) – Score Report By: November 1</i>	Spring	
		1. MTH 1112: Adventures in Mathematics		1. EDU 4220 / EDU 4221
		2. Technology or Engineering		2. EDU 4900: Practicum (and Seminar)
		3. STM 3000: Capstone / STM 4000: Practicum		3. EDU 4900: Practicum (and Seminar)
		4. EDU 4582: Sheltered English Instruction		4. EDU 4900: 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**

**EDU 2510: Pre-Practicum II (and Seminar)**

Spring

1. **EDU 4220 / EDU 4221**
2. **EDU 4900: Practicum (and Seminar)**
3. **EDU 4900: Practicum (and Seminar)**
4. **EDU 4900: Practicum (and Seminar)**

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