

# B.S.ED.: EARTH & SPACE SCIENCE: 128 credits (Summer 2017 >)

Student Name: \_\_\_\_\_ Student ID#: \_\_\_\_\_

EGGS and other Sciences Required for the Secondary Education Major (53 credits)			
Course Number	Course Title	Cr.	Plan
BIOLOGY 114	Concepts in Biology I	4	
CHEM 115	Chemistry for the Sciences I	4	
CHEM 116	Chemistry for the Sciences II	4	
EGGS 100	Intro. to Environmental Science	3	
EGGS 120	Physical Geology	4	
EGGS 130	Historical Geology	4	
EGGS 242	Map Use and Analysis	3	
EGGS 255	Meteorology	3	
EGGS 259	Oceanography	3	
EGGS 260	Earth Materials	4	
PHYSICS 110	Intro. to Astronomy	3	
Pick one PHYSICS 111	Introductory Physics I	4	
PHYSICS 211	Gen Physics I		
Pick one PHYSICS 112	Introductory Physics II	4	
PHYSICS 212	Gen Physics II		
Electives (6 credits minimum)			
EGGS 265	Geomorphology	4	
EGGS 320	Remote Sensing of the Earth	3	
EGGS 365	Intro to Paleontology	4	
EGGS 368	Stratigraphy & Sedimentation	4	
EGGS 369	Structural Geology	4	
EGGS 370	Surface Hydrology	3	
EGGS 420	Planetary Science	4	
EGGS 460	Aqueous Geochemistry	4	
EGGS 470	Groundwater Hydrology	3	
EGGS 480	Applied Geophysics	4	
EGGS 490	Special Topics in Geology	3	
EGGS 493	Senior Research	3	
MARSCI 250	Wetlands Ecology (or other approved Marine Science courses)	3	

Required by Education (40 credits)			
EDFOUND 204	Educational Technology	3	
EDFOUND 206	Teachers, Sch., & Soc.	1	
EDFOUND 291	Principles of Teaching	3	
EDFOUND 311	Classroom Meas. & Assessment	3	
EDFOUND 406	Multicultural Education	3	
EDFOUND 427	Classroom Mgt. & Eff. Discipline	3	
EDFOUND 497	Student Teaching: 1 <sup>st</sup> Experience	6	
EDFOUND 498	Student Teaching: 2 <sup>nd</sup> Experience	6	
PROFSTUD 498	Student Teaching Seminar	3	
-----	Practicum	3	
PSYCH 101	General Psychology	3	
SECED 453	Tchg. Sci. in Sec. Sch. (fall only)	3	

Required by PDE (27 credits)			
ENGLISH 101	Foundations of College Writing I	3	
ENGLISH ____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)	3	
MATH ____	Math 123, 141, or EGGS 150	3	
MATH ____	Math 123, 141, or EGGS 150	3	
PROFSTUD 494	ELL Strategies	3	
PSYCH 212	Adolescent Psychology	3	
SPECED 101	Introduction to Except. Individuals	3	
SPECED 275	Linking Assessment	3	
SPECED 358	Methods of Instruction for Students with Disabilities	3	

Meeting General Education Goals:			
Credit toward General Education Goals is met with General Education Points (GEPs). Courses can offer up to 4 GEPs and some offer GEPs toward more than one General Ed. Goal. <i>The range of courses awarding GEPs, and the degree to which major requirements and general education requirements may be satisfied simultaneously, will change as more courses are approved for GEPs. See <a href="http://www.bloomu.edu/mycore">www.bloomu.edu/mycore</a>.</i>			
General Education Courses			
<i>Courses in italics are also listed at left.</i>			
Course Number	Course Title	GEPs	Plan
Goal 1: Communication; minimum 7 GEPs, from minimum of 3 disciplines			
ASLTERP 155	<i>American Sign Language I</i>	1	
EDFOUND 291	<i>Principles of Teaching</i>	2	
ENGLISH 101	<i>Foundations of College Writing I</i>	3	
ENGLISH ____	<i>Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)</i>	1	
Goal 2: Information Literacy; minimum 2 GEPs			
EDFOUND 204	<i>Educational Technology</i>	3	
Goal 3: Analysis, Quantitative Reasoning, & Problem Solving; minimum 5 GEPs, from minimum of 2 disciplines			
BIOLOGY 114	<i>Concepts in Biology I</i>	1	
CHEM 115	<i>Chemistry for the Sciences I</i>	1	
EGGS 150	<i>Quantitative Methods in Earth Sci.</i>	3	
MATH ____	<i>Math 123 or 141</i>	3	
Goal 4: Cultures & Diversity; minimum 5 GEPs, from minimum of 2 disciplines			
EDFOUND 291	<i>Principles of Teaching</i>	1	
EDFOUND 406	<i>Multicultural Education</i>	2	
SPECED 101	<i>Intro to Exceptional Individuals</i>	2	
Goal 5: Natural Sciences; minimum 5 GEPs, from minimum of 2 disciplines			
BIOLOGY 114	<i>Concepts in Biology I</i>	3	
CHEM 115	<i>Chemistry for Sciences I</i>	3	
Goal 6: Social Sciences; minimum 5 GEPs, from minimum of 2 disciplines			
EDFOUND 206	<i>Teachers, Schools, &amp; Society</i>	1	
PSYCH 101	<i>General Psychology</i>	3	
SPECED 275	<i>Linking Assessment</i>	1	
Goal 7: Humanities; minimum 5 GEPs, from minimum of 2 disciplines			
ENGLISH ____	<i>Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)</i>	2	
MUSIC 101/105 or THEATRE 102/103	<i>Music Listening, Music Literature, Introduction to Theatre, or Theatre Appreciation</i>	3	
Goal 8: Second Language Competency; minimum 2 GEPs			
ASLTERP 155	<i>American Sign Language I or Competency Test* or Any 102 level language.*</i>	2	
Goal 9: Physical Activity & Health; minimum 2 GEPs			
_____	<i>Exercise (114, 226, 230, 241, 250, 270), Dance 117, Nursing (100 or 217), Honors 217</i>	2	
Goal 10: Responsible Citizenship; minimum 2 GEPs			
EDFOUND 406	<i>Multicultural Education</i>	1	
SPECED 101	<i>Intro to Exceptional Individuals</i>	1	

**NOTE:** A minimum of 120 credits are required for graduation. An alternative bookkeeping method for GEPs found on the reverse.

\*Passed Language Competency and any 102 level language still requires 1 point in Goal 1. Highly recommended to take COMMSTUD 103 or 104.

General Education Tally: Spreadsheet view see <a href="http://www.bloomu.edu/mycore/requirements">http://www.bloomu.edu/mycore/requirements</a> for more info about GEPs			Goal 1 Communication	Goal 2 Information Literacy	Goal 3 Analytical/Quantitative	Goal 4 Cultures & Diversity	Goal 5 Natural Science	Goal 6 Social Science	Goal 7 Arts & Humanities	Goal 8 Second Language	Goal 9 Healthy Living	Goal 10 Citizenship
General Education Requirements:			7 GEPs ***	2 GEPs *	5 GEPs **	5 GEPs **	5 GEPs **	5 GEPs **	5 GEPs **	2 GEPs *	2 GEPs *	2 GEPs *
Course #	Course Name	Sem/Yr										
ASLTERP 155	American Sign Language 1		1							2		
BIOLOGY 114	Concepts in Biology				1		3					
CHEM 115	Chemistry for Sciences				1		3					
EDFOUND 204	Educational Technology			3								
EDFOUND 206	Teachers, Schools, and Society							1				
EDFOUND 291	Principles of Teaching		2			1						
EDFOUND 406	Multicultural Education					2						1
EGGS 100	Intro to Environmental Science						3					
EGGS 150	Quant. Methods in Earth Sciences				3							
ENGLISH 101	Foundations of College Writing I		3									
ENGLISH ____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257)		1						2			
MATH 123	Essentials of Calculus				3							
MATH 141	Introduction to Statistics				3							
MUSIC 101/105	Music Listening/Music Literature								3			
PHYSICS 110	Introduction to Astronomy						3					
PSYCH 101	General Psychology							3				
SPECED 101	Intro to Exceptional Individuals					2						1
SPECED 275	Linking Assessment			1	1			1				
THEATRE 102	Intro. To Theatre								3			
THEATRE 103	Theater Appreciation								3			
<b>GEP Running Total (revise as needed) =</b>												
<b>Check here when GEP requirements met:</b>												

\*GEPs for this goal may come from just 1 discipline. \*\*GEPs must come from at least 2 disciplines. \*\*\*GEPs must come from at least 3 disciplines.

### **Additional Notes on the Secondary Education Major:**

**Admission Packet, for Admission into the Teacher Education Program:** due by 48 credits, signed by your Education advisor and submitted to Teacher Education Admission Packets Coordinator, McCormick 3103A.

Forms and information available Online from [www.bloomu.edu/teaching-learning](http://www.bloomu.edu/teaching-learning).

- Eligible test scores: PRAXIS ([www.ets.org](http://www.ets.org)), PAPA ([www.pa.nesinc.com](http://www.pa.nesinc.com))**
  - PRAXIS Core Academic Skills for Educators** (Reading Score: 156; Writing Score: 162; Math Score: 142).
  - PAPA—Pre-service Academic Perf. Assessment** (Reading Score: 220; Writing Score: 220; Math Score: 193).
  - SAT (Old):** 500 or higher in Reading, Writing, and Math.
  - ACT:** Before 9/2015; Composite Score: 23; English/Writing Score: 22; Math Score: 21  
After 9/2015; Reading Score: 22; Writing Score: 21; Math Score: 21
  - PRAXIS II:** Grades 7-12 field of concentration ([www.ets.org](http://www.ets.org)).
- Cumulative GPA of 3.0, with a C or better** in all professional education and specialization courses.
- 6 credits of college-level math and 6 credits in English composition and literature**
- Completion of early field experience:** five days/40 hours, non-credit, w/ appropriate diversity in contexts: forms required
- Two recommendations** from Teacher Education faculty: standardized form required
- Professional liability insurance** (available through PSEA, at [www.PSEA.org](http://www.PSEA.org))
- Tuberculosis Screening** results, from a test taken within the last two years (likely repeated before student teaching).
- A resume** that follows the sample format: format available from Education Studies
- Criminal checks: Act 34** (Criminal Record Check); **Act 151** (Child Abuse History Check); **Act 114** (FBI Clearance): Register at [www.pa.cogentid.com](http://www.pa.cogentid.com); register under Department of Education; fingerprinting available at BU bookstore. Clearances are valid for one year: will need to repeat before student teaching.

### **Student Teaching—Placement Card and Eligibility Packet:**

- Student Teaching Placement Card**—intent to student teach: **fall** student teaching, due **by February**  
**spring** student teaching, due **by September**
- Student Teaching Eligibility Packet:** Download checklist and forms from the Student Teaching tab under Student Resources on the College of Education homepage.
- Student Teaching Eligibility Packet is due**, signed by your Education advisor, to the Student Teaching Placement Office, 3103A McCormick:
  - April 10** for fall student teaching
  - October 1** for spring student teaching