

Millersville University  
Post-Baccalaureate Certification in Biology 7-12 Education

(Last Name)	(First Name)	Student Number
		Dr. Ryan Wagner Advisor

Undergrad GPA: \_\_\_\_\_

Admission type: \_\_\_\_\_

Note: If you have been offered Probationary Admission you must complete the TCAT requirements before taking any other program coursework.

**Required Biology Courses (28.0 credits)**

Number	Title	Needed at MU	Satisfied At Admission	Grade	Notes
BIOL 101	Foundation of Biology (4 s.h.)	_____	_____	_____	_____
BIOL 211	Concepts of Zoology (4 s.h.)	_____	_____	_____	_____
BIOL 221	Concepts of Botany (4 s.h.)	_____	_____	_____	_____
BIOL 343	Principles of Ecology & Evolution (4 s.h.)	_____	_____	_____	_____
BIOL 362	Cell & Developmental Biology (4 s.h.)	_____	_____	_____	_____
BIOL 364	Genetics & Molecular Biology (4 s.h.)	_____	_____	_____	_____
BIOL 375	Biometry (3 s.h.)	_____	_____	_____	_____
BIOL 473	Teaching Biological Issues (1 s.h.)	_____	_____	_____	_____

**Additional Biology Electives (4.0 Credits)**

BIOL 318	Comparative Vertebrate Anatomy ( 4 s.h.)	_____	_____	_____	_____
BIOL 415	Mammalogy ( 3 s.h.)	_____	_____	_____	_____

**Required Related (34.0-37.0 Credits)**

<b>Chemistry (16 s.h.)</b>					
CHEM 111	Introductory Chemistry I (4 s.h.)	_____	_____	_____	_____
CHEM 112	Introductory Chemistry II (4 s.h.)	_____	_____	_____	_____
CHEM 235	Organic Chemistry I (4 s.h.)	_____	_____	_____	_____
CHEM 326	Biochemistry I (4 s.h.)	_____	_____	_____	_____
<b>Earth Science (3 s.h.) 200-Level or Above</b>					
ESCI _____		_____	_____	_____	_____
<b>Mathematics (4-5 s.h.)</b>					
MATH 160/161	Precalculus OR Calculus I (4 s.h.)	_____	_____	_____	_____
MATH _____	(4 s.h.)	_____	_____	_____	_____
<b>Physics (8-10 s.h.)</b>					
PHYS 131/	Physics I w/Algebra or (4 s.h.)	_____	_____	_____	_____
231	Physics I w/Calculus	_____	_____	_____	_____
PHYS 132/	Physics II w/Algebra (4 s.h.)	_____	_____	_____	_____
232	Physics II w/Calculus	_____	_____	_____	_____

**NOTE: Students who were awarded a degree in a related content area may have some course requirements waived if they take and pass the appropriate Praxis test(s); those courses are noted with (P). Please work closely with your advisor if you wish to pursue this option.**

Professional Education Requirements (33.0 credits)					
Number	Title	Needed at MU	Satisfied At Admission	Grade	Notes
<b>Foundations Bloc (6 s.h.)</b>					
A complete and valid Clearance Packet is required and must be on file prior to the semester deadlines. Review deadline dates and requirements here: <a href="https://www.millersville.edu/fieldservices/clearances.php">https://www.millersville.edu/fieldservices/clearances.php</a>					
We recommend Post Bacc students take 590 & 545. These courses require field placement at an urban school. Offered in the evenings or online in Fall and Spring semesters. Also offered in summer session. If enrolling in EDFN 211 and EDFN 241, please register for both courses in the same bloc.					
Take one of:					
EDFN 211	Foundation Modern Education (3 s.h.)	_____	_____	_____	_____
EDFN 590	Social Foundation of Educ (3 s.h.)	_____	_____	_____	_____
Take one of:					
EDFN 241	Psyc Foundation of Teaching (3 s.h.)	_____	_____	_____	_____
EDFN 545	Advanced Educational Psych (3 s.h.)	_____	_____	_____	_____
<b>Formal Entry to the Educator Preparation Program:</b>					
Students must apply for Formal Entry to the Program, meeting all APS (Advanced Professional Studies) requirements before progressing past this point: <a href="https://www.millersville.edu/cert/aps.php">https://www.millersville.edu/cert/aps.php</a>					
<b>APS Bloc (15 s.h. total)</b>					
EDFN 330/530	Instructional Tech, Design & Assessment (3 s.h.)	_____	_____	_____	_____
SEED 321/521	Issues in Secondary Education (3 s.h.)	_____	_____	_____	_____
SEED 340/540	Content Area Literacy for Divrs Clrooms (3 s.h.)	_____	_____	_____	_____
SPED 346/546	Sec. Students w/ Disabilities in Inclv Sets (3 s.h.)	_____	_____	_____	_____
SEED 435	Teaching Science Seondary Schls (3 s.h.)	_____	_____	_____	_____
<b>Student Teaching Semester (12 s.h.):</b>					
YOU MUST SUBMIT YOUR STUDENT TEACHING APPLICATION 1 YEAR IN ADVANCE. See information and deadline dates here: <a href="https://www.millersville.edu/studentteaching/">https://www.millersville.edu/studentteaching/</a>					
EDSC 461	Student Teaching in Science (9 s.h.)	_____	_____	_____	_____
SEED 471	Student Teaching Seminar (3 s.h.)	_____	_____	_____	_____

Reviewed by: _____	Biology Certification Coordinaor	Date: _____
Reviewed by: _____	Chair, Educational Foundations	Date: _____
Reviewed by: _____	Certification Officer	Date: _____

**\*\* All requirements subject to change \*\***