

# Advising for Secondary Education Certification

## Indiana Biology Grades 5-12 (Biology Major)



### General Education Requirements -13 units

Core Curriculum Requirement (CCRs)	Units Req.	Course
FY Experience/FY Seminar	0.5	
LA-Literary and Artistic Perspectives #1	1.0	
LA-Literary and Artistic Perspectives #2	1.0	
HS-Historical and Social Perspectives #1	1.0	
HS-Historical and Social Perspectives #2	1.0	
RP- Philosophical Perspectives	1.0	
RP-Religious Perspectives	1.0	
SL-Algorithmic Methods	1.0	
SM-Mathematical Methods	1.0	
SM- Scientific Methods	1.0	
WL-World Languages and Cultures #1	1.0	
WL-World Languages and Cultures #2 (sequential)	2.0	
AF-Health and Fitness (Applied) #1	0.25	
AF-Health and Fitness (Applied) #2	0.25	
<b>Total CCR units</b>	<b>13 units</b>	
Areas of Competency and Engagement (ACES)		Course
W1-Writing	1	
W2-Writing	1	
S-Speaking	1	
CP-Cultural Perspectives	1	
QL- Quantitative Reasoning	1	
	<b>5 units</b>	

Educator Prep. Certification Requirements	Units Req.	Course Semester
EDU 221 Education and the American Culture	1	
EDU 231 Education Law and Ethics	1	
<b>EDU 314 Teaching Middle School (EDU Admission Required)</b>	1	
<b>EDU 315 Teaching High School (EDU Admission Required)</b>	1	
<b>EDU 337 Secondary Methods in Sciences (EDU Admission Required)</b>	1	
<b>EDU 455 Student Teaching in Secondary Schools (EDU Admission Required)</b>	4	
Cognate Courses (Required)		
PSY 111 Basic Principals of Psychology	1	
PSY 244 Childhood and Adolescence	1	
	<b>11</b>	

Optional Dual Licensure in Special Education Available (5 units)

*\*See Teaching Diverse Learners Program Advising Sheet*

Optional Dual Major in Secondary Education Available

*\*See BIOLOGY and Secondary Education Major Advising Sheet*

## Biology Major Course Requirements

<b>Biology Major Requirements</b> <i>*No more than 1 unit of any combination of 308/309/380 can count toward graduation</i>	<b>Units</b>	<b>Course Semester</b>
BIO 161	1	
BIO 185	1	
BIO 221	1	
BIO Elective 1	1	
BIO Elective 2	1	
BIO Elective 3	1	
BIO Elective 4 (300 level - not 301, 307, 308, 309, 357, 370, 380)	1	
BIO Elective 5 (300 level - not 301, 307, 308, 309, 357, 370, 380)	1	
BIO 462 Culminating Experience	1	
BIO 499 Comprehensive Exam		
<b>COGNATE COURSES</b>		
CHEM 161 or equivalent	1	
CHEM 185	1	
<b>Total for BIO major</b> <i>*All courses except 301 have and integrated laboratory experience.</i>	<b>11</b> <b>TOTAL</b>	

*Please refer to the academic catalog for complete details on graduation requirements.*

*While the academic advisors and other personnel are available for assistance, the primary responsibility for taking appropriate and required courses to meet graduation requirements rests with the student.*

*Compliance with regulations established by the Indiana Department of Education may alter the Education Department policies, curricula, and course content regardless of the student's enrollment date in the program.*

NOTES: