Biological Sciences Education

Department Information

· Department Web Site:

www.ndsu.edu/education/ (http://www.ndsu.edu/education/)

· Credential Offered:

B.S.; B.A.

· Sample Program Guide:

catalog.ndsu.edu/programs-study/undergraduate/biological-sciences-education/#planofstudytext (http://catalog.ndsu.edu/programs-study/undergraduate/biological-sciences-education/#planofstudytext)

Major Requirements

Major: Biological Sciences Education

Degree Type: B.A. or B.S.

Minimum Degree Credits to Graduate: 122

University Degree Requirements

- 1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
- 2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
- 3. Satisfactory completion of the general education requirements as specified by the university.
- 4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
- 5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
- 6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
- 7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student's curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/past-bulletin-archive/2024-25/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

University General Education Requirements

A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/past-bulletin-archive/2024-25/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

Code	Title	Credits
Category C: Communication		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing [†]		
Category R: Quantitative Reasoning †		3
Category S: Science and Technology [†]		10
Category A: Humanities and Fine Arts [†]		6
Category B: Social and Behavioral Sciences [†]		6
Category W: Wellness [†]		2
Category D: Cultural Diversity *†		
Category G: Global Perspectives *†		
Total Credits		39

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Courses for category D & G are satisfied by completing D & G designated courses in another general education category.

General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

Major Requirements

Total Credits		98-99	
EDUC 489	Teaching Students of Diverse Backgrounds	3	
EDUC 488	Applied Student Teaching	3	
EDUC 487	Student Teaching	9	
EDUC 486	Classroom Management for Diverse Learners	3	
EDUC 485	Student Teaching Seminar	1	
EDUC 482	Classroom Practice/Methods of Teaching II: (Science)	3	
EDUC 481	Classroom Practice Methods of Teaching I: (Science)	3	
EDUC 451	Instructional Planning, Methods and Assessment	3	
EDUC 322	Educational Psychology	3	
EDUC 321	Introduction to Teaching	3	
Professional Education Requirements			
STAT 330	Introductory Statistics (May satisfy general education category R)	3	
SOIL 217	Introduction to Meteorology & Climatology	3	
& 211L	and College Physics I Laboratory		
& 120L PHYS 211	College Physics I		
PHYS 120 & 120L	Fundamentals of Physics and Fundamentals of Physics Laboratory		
Pick one of the following:		4	
& 202L	and Introductory Microbiology Lab		
MICR 202	Introductory Microbiology	3	
MATH 146	Applied Calculus I		
MATH 105	Trigonometry		
Pick one of the following math classes: 3-4			
& 106L	and The Earth Through Time Lab		
GEOL 106	The Earth Through Time	4	
& 105L	and Physical Geology Lab (May satisfy general education category G)	4	
GEOL 105	Writing in the Sciences (May satisfy general education category C) Physical Geology	3	
& 122L ENGL 324	and General Chemistry II Laboratory	2	
CHEM 122	General Chemistry III	4	
& 121L	and General Chemistry I Laboratory		
CHEM 121	General Chemistry I	4	
BIOL 370	Cell Biology	3	
BIOL 364	General Ecology	3	
BIOL 359	Evolution	3	
& 315L	and Genetics Laboratory	4	
& 221L BIOL 315	and Human Anatomy and Physiology II Laboratory Genetics	4	
BIOL 221	Human Anatomy and Physiology II	4	
& 220L	Human Anatomy and Physiology I and Human Anatomy and Physiology I Laboratory	4	
& 151L BIOL 220	and General Biology II Laboratory	4	
& 150L BIOL 151	and General Biology I Laboratory General Biology II	4	
BIOL 150	General Biology I	4	
Teaching Specialty Requirements			
Code	Title	Credits	

Degree Requirements and Notes

- See School of Education (https://www.ndsu.edu/education/) for admission requirements.
- Courses taken P/F may not be used to satisfy any requirements.
- A grade of 'C' or better is required in all professional education courses.
- To be placed in student teaching, a 2.75 cumulative GPA and a 2.75 GPA in professional education coursework is required.
- To exit the program, a 2.75 cumulative GPA and a 2.75 GPA in professional education coursework is required as well as completing the Praxis Subject test and the Principles of Learning and Teaching test.
- Biological Sciences Majors: Electives taken for the Biological Sciences major cannot be double-counted with the Zoology minor. The only classes that can be double counted are BIOL 150/150L, 151/151L, and 359.