

TEACHER CERTIFICATION IN PHYSICS

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/)	40
Major Requirements	54
Electives	12
Other Requirements	15
Total Credit Hours	121

Curriculum

Course	Title	Credits
First Year		
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 160	University Physics I	4
PHY 160L	University Physics Laboratory I	1
PHY 161	University Physics II	4
PHY 161L	University Physics Laboratory II	1
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		29
Second Year		
SEM 201	Spartan Seminar 201	1
BIO 110	General Biology	3
CSC 170	Computer Programming I	3
EDU 201	Foundations of Education	3
MTH 252	Calculus III	4
MTH 372	Differential Equations	3
PHY 241	Physics Seminar	1
PHY 260	University Physics III	4
PHY 345	Mathematical Methods Physical Sciences I	3
PHY 350	Modern Physics	3
PHY 351	Modern Physics	2
XXX XXX	Humanities Elective (from General Education Core)	3
Credits		33
Third Year		
CHM 221	General Chemistry I	3
CHM 221L	General Chemistry I Laboratory	1
CHM 222	General Chemistry II	3
XXX XXX	Social Sciences Elective from the General Education Core	3
PSY 228	Developmental Psychology	3

PHY 365	Physical Mechanics	3
PHY 375	Electricity and Magnetism I	3
PHY 380	Quantum Mechanics I	3
SED 405	Reading in the Content Area	3
ENG 285	Public Speaking	3
SOC 101	Introduction to the Social Sciences	3
Credits		31

Fourth Year

EDU 381	Classroom and Behavior Management	3
SED 385	Curriculum and Instructional Procedures in Science	3
PHY 468	Optics	3
PHY 498	Sr Project I	2
SED 499	Directed Teaching (internship)	12
Select one of the following Cultural Perspectives (Humanities):		3
ENG 383	African-American Literature, 1940-PRESENT	
MUS 234	African-American Music	
Select one of the following Cultural Perspectives (Social Sciences):		3
HIS 335	African-American History	
HIS 336	African-American History Since 1865	
HIS 371	Modern African History & Cultures 1600-PRESENT	
HRP 320	African American Health	
Credits		29
Total Credits		122

Teacher Licensure Endorsement in Physics

Students wishing to pursue a career in teaching must take the following steps:

1. Follow the curriculum for the B.S. degree in Physics.
2. Use the elective hours for professional courses.
3. See the academic advisor in their major department.
4. See the academic advisor in the Department of Secondary Education and School Leadership in the Bozeman Education Building, Room 200.
5. Take the PRAXIS test and make a passing score. (See the School of Education PRAXIS coordinator, JBB 125.)
6. Take the following professional education courses (18 semester hours) plus student teaching (12 semester hours).

Code	Title	Credits
EDU 201	Foundations of Education	3
SED 233	Seminar in Assessment and Evaluation	3
SED 380	Foundations of Secondary School Methods and Management Instruction	3
SED 420	Educational Technology	3
SED 486	Human Growth and Development	3
SED 488	School Community Relations	3
SED 499	Directed Teaching (internship)	12