

NATURAL SCIENCE ELEMENTARY MAJOR AND MIDDLE LEVEL ENDORSEMENT, BACHELOR OF ARTS IN EDUCATION (BAE)

Completion of this major, the General Degree Completion Requirements for Elementary Education, satisfies the state requirements for an Elementary Education teaching endorsement and a Middle Level Science teaching endorsement (grade levels 5–9).

Prerequisites apply:

*BIOL 320 also meets International Studies Requirement;

*NTSC 301 requires prerequisites of GEOG 115 or GEOL 115;

MATH 211 and successful completion or concurrent enrollment in CHEM 161;

*NTSC 302 requires prerequisites of BIOL 115;

CHEM 161;

MATH 211;

*PHYS 115 require a prerequisite of MATH 211.

Required Elementary Education Core

30-hour multicultural education field requirement		
ART 390	ART IN THE ELEMENTARY SCHOOL	3
EDUC 200 & EDUC 303 & EDUC 308	ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT (these three courses must be taken concurrently)	7
EDUC 201	INTRODUCTION TO EDUCATION	3
EDUC 304	INTRODUCTION TO ELEMENTARY READING	3
EDUC 310	LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL	4
EDUC 338 & EDUC 339	LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently)	9
EDUC 420	ADMISSION TO PROFESSIONAL CANDIDACY	1
EDUC 423	ELEMENTARY STUDENT TEACHING K-8	15
MATH 212	STRUCTURE OF ELEMENTARY MATH II	5
MTED 390	METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS	5
MUSC 450	INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES	3
PHED 390	HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS	3
PSYC 304	EDUCATIONAL PSYCHOLOGY	5
SPED 363	INTRODUCTION TO SPECIAL EDUCATION	4

Required Natural Science Elementary Major and Middle Level Endorsement Courses

Life Science		
BIOL 115	INVESTIGATING BIOLOGY	5
BIOL 320	THE HUMAN PROSPECT	5
NTSC 302	MIDDLE LEVEL LIFE SCI INQUIRY	5
Earth Science		
GEOG 115	INVESTIGATING EARTH SCIENCE	5
or GEOL 115	INVESTIGATING EARTH SCIENCE	
GEOG 204	ATMOSPHERIC ENVIRONMENT	5
or GEOG 314	WEATHER AND CLIMATE	
NTSC 301	MIDDLE LEVEL EARTH SCIENCE	5
Physical Science		
CHEM 161	GENERAL CHEMISTRY FOR THE HEALTH SCIENCES	5
PHYS 115	INVESTIGATING PHYSICAL SCIENCE	5
PHYS 121	DESCRIPTIVE ASTRONOMY	5
Other		
EDUC 417	CULTURE OF MIDDLE SCHOOL	3
NTSC 390	MIDDLE LEVEL SCIENCE METHODS	3
Total Credits		121

For information on General Education, see Undergraduate Degree (<http://catalog.ewu.edu/archives/2015-2016/undergraduate-degree>).

Student Learning Outcomes—students will

Note: see Education for additional SLOs.

- understand the process of science;
- understand how energy and matter flow through physical, life and earth systems;
- understand the evolution of natural systems and factors that result in evolution or equilibrium;
- understand how systems are organized;
- understand the process of learning science through inquiry.