

## Methods Courses for Teacher Education Majors

### Methods Courses:

Elementary – EDUC 315 Mathematics in the Elementary School, EDUC 320 Social Studies in the Elementary School, EDUC 322 Methods of Language Arts Instruction, EDUC 323 Methods of Reading in the Elementary School, EDUC 355 Science Methods for Elementary Teachers.

K-12 Methods– ART 390 Art Methods, MUS 403 Choral Methods and Literature, MUS 404 Instrumental Methods and Literature, HPER 325 Instructional Methods in Elementary Physical Education Classroom, HPER 490 Methods of Teaching K-12 Physical Education

Secondary Methods - BIOL 490 Secondary Science Methods and Techniques, BUSI 490 Methods and Materials for Teaching Business Subjects, ENGL 490 Methods of Teaching English, HIST 490 Methods of Teaching Social Science, HPER 390 Secondary Health Education Methods, MATH 490 Teaching Secondary School Mathematics, STEM ED 411 STEM Curriculum and Methods

### Methods Courses and Catalog Descriptions

#### Elementary Methods Courses and Descriptions

##### **EDUC 315. Mathematics in the Elementary School. 3 Credits.**

A study of mathematical concepts, systems of numbers, ways of presenting these concepts, and understanding how arithmetical concepts are developed, expanded, and reinforced. Special emphasis will be on the impact of technology, problem solving, and mathematical reasoning. Students will plan, implement, and evaluate lessons. **Typically Offered:** Fall. **Prerequisites:** Admitted to Teacher Education, [EDUC 277](#), and EDUC 278.

Role: Elementary Education Teaching Specialty Requirement

State Standard(s): 50015.2c, 50015.4a, 50015.4c, 50015.4d, 50015.4f, 50015.4g

InTASC Standard: 7

##### **EDUC 320. Social Studies in the Elementary School. 3 Credits.**

A study of the content, methods, and materials used when teaching elementary school social studies. Topics include multicultural education, geography, civics, economics, global education, law-related education, critical thinking, computer usage, and designing effective lesson plans. **Typically**

**Offered:** Spring. **Prerequisite:** Admitted to Teacher Education.

Role: Elementary Education Teaching Specialty Requirement

State Standard(s): 50015.2d, 50015.4a, 50015.4c, 50015.4e, 50015.4g

InTASC Standard: 7

##### **EDUC 322. Methods of Language Arts Instruction. 3 Credits.**

A course based upon the philosophy that the language arts are best taught as integrated modes. Topics include planning, implementing, and evaluating language arts lessons; language acquisition; teaching grammar usage, oral language, listening writing, handwriting, and spelling; developing language arts learning centers; and meeting the needs of culturally diverse students. **Typically Offered:** Fall.

**Prerequisite:** Admitted to Teacher Education and EDUC 321.

Role: Elementary Education Teaching Specialty Requirement

State Standard(s): 50015.2a, 50015.4a, 50015.4c, 50015.4f, 50015.4g

InTASC Standard: 7

**EDUC 323. Methods of Reading in the Elementary School. 3 Credits.**

A concentration on the teaching of reading based upon the integrated teaching of language arts. Topics include phonics, phonemic awareness and literature-based approaches, guided reading, reading recovery, teaching reading in the content areas, promoting reading as a lifelong activity, organizing and managing classroom reading programs, using technology in literacy, diagnosis and correction of reading difficulties, and meeting the needs of culturally diverse and special needs students. **Typically Offered:** Spring.

**Prerequisite:** Admitted to Teacher Education; **Prerequisite or Corequisite:** [EDUC 321](#).

Role: Elementary Education Teaching Specialty Requirement

State Standard(s): 50015.2a

InTASC Standard: 7

**EDUC 355. Science Methods for Elementary Teachers. 3 Credits.**

A course designed to prepare prospective elementary teachers for effective teaching of science in elementary schools. Methods and materials are introduced and opportunities for practice and evaluation are available. Topics include critical thinking and questioning techniques, designing effective lesson plans and units. **Typically Offered:** Fall, Spring. **Prerequisite:** Admitted to Teacher Education.

Role: Elementary Education Teaching Specialty Requirement

State Standard(s): 50015.1a, 50015.2b

InTASC Standard: 7

**K-12 Methods Courses and Descriptions**

K-12 Methods– ART 390 Art Methods, MUS 403 Choral Methods and Literature, MUS 404 Instrumental Methods and Literature, HPER 325 Instructional Methods in Elementary Physical Education Classroom, HPER 490 Methods of Teaching K-12 Physical Education

**ART 390. Art Methods. 4 Credits.**

A study of the principles of learning, instruction and curriculum in K-12 art education programs. Students will develop teaching competencies through mini-teaching experiences, analysis of instructional methods and writing units of study.

**Typically Offered:** Fall, even years.

**Prerequisite:** Admitted to Teacher Education.

InTASC Standard: 7

**MUS 403. Choral Methods and Literature. 3 Credits.**

An introduction to the methods, materials, models, and rehearsal techniques of the school choral music program. Includes a survey of choral literature, with studies in conducting techniques, score preparation, and interpretation of choral literature in various styles.

**Typically Offered:** Fall, even years.

**Prerequisite:** [MUS 205](#).

InTASC Standard: 7

**MUS 404. Instrumental Methods and Literature. 3 Credits.**

An introduction to the methods, materials, models, and rehearsal techniques of the school instrumental music program. Includes a survey of instrumental literature, with studies in conducting techniques, score preparation, and interpretation of instrumental literature in various styles.

**Typically Offered:** Spring, odd years.

**Prerequisite:** [MUS 205](#).

InTASC Standard: 7

**HPER 325. Instructional Methods in the Elementary Physical Education Classroom. 3 Credits.**

The course is designed to prepare pre-service teachers to teach elementary physical education, grades k-6th. Content areas are pedagogy in the elementary physical education setting, curricular design, assessment of motor and skill mechanics of the elementary student, the integration of fitness in elementary physical education, as well as classroom management.

**Typically Offered:** Fall.

InTASC Standard: 7

**HPER 490. Methods of Teaching K-12 Physical Education. 3 Credits.**

A study of curriculum and methods used in promoting contemporary K-12 physical education programs that enables the prospective teacher to understand, teach, and assess the significance of the program. The class includes a practicum experience in which students are assigned to area public school physical education classes.

**Typically Offered:** Fall.

**Prerequisites:** Admitted to Teacher Education, HPER 306, and HPER 325.

InTASC Standard: 7

**Secondary Methods Courses and Descriptions**

Secondary Methods - BIOL 490 Secondary Science Methods and Techniques, BUSI 490 Methods and Materials for Teaching Business Subjects, ENGL 490 Methods of Teaching English, HIST 490 Methods of Teaching Social Science, HPER 390 Secondary Health Education Methods, MATH 490 Teaching Secondary School Mathematics, STEM ED 411 STEM Curriculum and Methods

**BIOL 490. Secondary Science Methods and Techniques. 3 Credits.**

A course designed to prepare prospective science teachers in the areas of curriculum planning, textbook selection, supplemental teaching aids, laboratory procedures, and the ordering of equipment and supplies. The course includes laboratory practicum experience.

**Typically Offered:** Fall.

**Prerequisite:** Admitted to Teacher Education.

InTASC Standard: 7

**BUSI 490. Methods and Materials for Teaching Business Subjects. 3 Credits.**

An exploration of the curriculum, methods, materials, trends, and philosophy in the teaching of business education. Students will be exposed to the Teaching and Learning Capstone requirements. Special emphasis is placed on technology, various instructional strategies, and Technical Education Teacher Credentialing Requirements in lieu of CTE 490, Methods for Teaching Career and Technical Education Subjects. The course must be taken before student teaching.

**Typically Offered:** Fall.

**Prerequisite:** Admitted to Teacher Education.

InTASC Standard: 7

**ENGL 490. Methods of Teaching English. 3 Credits.**

An examination of the curriculum, methods, materials, trends, and philosophy in the teaching of the English language arts in secondary schools. [ENGL 490](#) must be successfully completed prior to student teaching.

**Typically Offered:** Fall, odd years.

**Prerequisite:** Admitted to Teacher Education.

InTASC Standard: 7

**HIST 490. Methods of Teaching Social Science. 3 Credits.**

A study of methods used in teaching social science. Emphasis is on techniques and sources of materials. This course must be successfully completed before student teaching.

**Typically Offered:** Fall, Spring.

**Prerequisite:** Admitted to Teacher Education.

InTASC Standard: 7

**HPER 390. Secondary Health Education Methods. 3 Credits.**

A study of curriculum and health education methods used in promoting contemporary health education which enable the prospective teacher to plan, implement, evaluate, and reflect within the health education classroom. Emphasis is placed on the development of lesson and unit plans that incorporate measurable objectives aligned to the state and national standards. The class includes a practicum experience in which students are assigned to area public health education classes.

**Typically Offered:** Fall.

**Prerequisite:** Admitted to Teacher Education and HPER 306.

InTASC Standard: 7

**MATH 490. Teaching Secondary School Mathematics. 3 Credits.**

An opportunity for students planning to teach math in the secondary schools to understand and apply content topics which align with ND Math Education standards and ND teacher education standards.

**Typically Offered:** Fall, even years.

InTASC Standard: 7

**STEM ED 411. STEM Curriculum and Methods. 3 Credits.**

The study of the history and evolution of technology education from the 19th century to the current standards movement. Methods and management techniques appropriate to the technology education laboratory are studied including the management of student organizations.

**Typically Offered:** Fall.

InTASC Standard: 7