

Secondary Education – Physics Teacher Emphasis

Associate in Science

Degree Program Mentor

For additional information regarding this degree, contact the Degree Program Mentor.



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Program Objective

The objective of the Secondary Education Associate in Science – Physics Teacher Certification Emphasis is to prepare students for transfer to a bachelor’s degree granting institution to major in physics with a concentration in teacher certification.

Requirements for Graduation

1. Sixty-four designated semester credit hours.
2. Grade of "C" or better required in all Major Field Requirement courses.
3. Grade Point Average of 2.0 or better.
4. Fifteen semester credit hours in attendance at SSC.
5. Completion of Graduate Exit Survey.

Transfer Note: A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university **with an associate in arts or associate in science degree** will satisfy all freshman and sophomore general education requirements at the four-year university.

Teacher Certification Examinations:

The Oklahoma General Education Test (OGET) is the first of a series of certification exams required by the teacher certification process in the state of Oklahoma. The OGET is typically taken during a teacher education candidate’s sophomore year. For more information on OGET and other required certification examinations visit www.ceoe.nesinc.com.



General Education Requirements 34

| | | |
|-----------|--|---|
| GOV 1113 | American National Government | 3 |
| HIST 1483 | American History to 1877 or | |
| HIST 1493 | American History since 1877..... | 3 |
| ENG 1113 | Composition I | 3 |
| ENG 1213 | Composition II..... | 3 |
| SPCH 1143 | Speech..... | 3 |
| HUM | Any class designated as Humanities | 6 |
| MATH 1513 | Pre-Calculus for Eng-Phys-CS..... | 3 |
| SCIENCE | <i>met by program</i> | |
| CAP 1103 | Introduction to Microsoft Office..... | 3 |
| HPER 1012 | Wellness and Human Development | 2 |
| STSC 1002 | Learning Strategies | 2 |
| PSY 1113 | General Psychology | 3 |

Major Field Requirements 23

Select from the following and must include at least one life science and one physical science:

| | | |
|-----------|-----------------------------------|--------------------|
| BIOL 1114 | General Biology or | |
| BIOL 1214 | Principles of Biology | (recommended) |
| CHEM 1315 | General Chemistry I | |
| CHEM 1515 | General Chemistry II (SO) | |
| MATH 1613 | Plane Trigonometry | |
| MATH 2215 | Calculus and Analytic Geometry I | (recommended) (SO) |
| MATH 2424 | Calculus and Analytic Geometry II | (recommended) (FO) |
| PHYS 1214 | Earth Science | |
| PHYS 1314 | Astronomy | |
| PHYS 2114 | General Physics I | (recommended) (FO) |
| PHYS 2211 | Calculus Based Physics I | (recommended) (FO) |
| PHYS 2224 | General Physics II | (recommended) (SO) |
| PHYS 2231 | Calculus Based Physics II | (recommended) (SO) |

Major Field Electives and Support..... 3

| | | |
|----------|--------------------------|--|
| PSY 2023 | Developmental Psychology | |
|----------|--------------------------|--|

MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE 62

FO=FALL ONLY FOO=FALL ODD YRS ONLY FEO=FALL EVEN YRS ONLY

SO=SPRING ONLY SOO=SPRING ODD YRS ONLY SEO=SPRING EVEN YRS ONLY



Secondary Education - Physics Teacher Emphasis Associate in Science

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2022-23 Degree Requirements Checklist

| GENERAL EDUCATION REQUIREMENTS | | 23 hrs. | MAJOR FIELD REQUIREMENTS |
|--------------------------------|---|---------|---|
| 6 hrs. | Social Sciences <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 or <input type="checkbox"/> HIST 1493 American History Survey since 1877 | | <i>Select from the following:</i> <input type="checkbox"/> BIOL 1114 General Biology or <input type="checkbox"/> BIOL 1214 Principles of Biology (recommended) <input type="checkbox"/> CHEM 1315 General Chemistry I <input type="checkbox"/> CHEM 1515 General Chemistry II (SO) <input type="checkbox"/> MATH 1613 Plane Trigonometry <input type="checkbox"/> MATH 2215 Calculus and Analytical Geometry I (recommended) (SO) <input type="checkbox"/> MATH 2424 Calculus and Analytical Geometry II (recommended) (FO) <input type="checkbox"/> PHYS 1214 Earth Science <input type="checkbox"/> PHYS 1314 Astronomy <input type="checkbox"/> PHYS 2114 General Physics I (recommended) (FO) <input type="checkbox"/> PHYS 2211 Calculus Based Physics I (recommended) (FO) <input type="checkbox"/> PHYS 2224 General Physics II (recommended) (SO) <input type="checkbox"/> PHYS 2231 Calculus Based Physics II (recommended) (SO) |
| 9 hrs. | Language Arts <input type="checkbox"/> ENG 1113 Composition I <input type="checkbox"/> ENG 1213 Composition II <input type="checkbox"/> SPCH 1143 Speech | | |
| 6 hrs. | Humanities <i>Select two of the following:</i> <input type="checkbox"/> HUM _____ <input type="checkbox"/> HUM _____ any course with HUM prefix (list above) or <input type="checkbox"/> ART 1153 Art History I (FO) <input type="checkbox"/> ART 1163 Art History II (SO) <input type="checkbox"/> ART 1203 Art Appreciation <input type="checkbox"/> ART 2323 Global Studies in Art (TBD Summer) <input type="checkbox"/> ENG 2043 Global Studies in Language Arts and Humanities (TBD Summer) <input type="checkbox"/> ENG 2413 Introduction to Literature (FO) <input type="checkbox"/> ENG 2433 World Literature I (SO) <input type="checkbox"/> ENG 2543 British Literature I (FEO) <input type="checkbox"/> ENG 2653 British Literature II (FOO) <input type="checkbox"/> ENG 2753 American Literature I (SEO) <input type="checkbox"/> ENG 2883 American Literature II (SOO) <input type="checkbox"/> HIST 2223 Early Western Civilization to 1660 <input type="checkbox"/> HIST 2233 Modern Western Civilization since 1660 <input type="checkbox"/> MUS 1213 Music Appreciation I <input type="checkbox"/> MUS 1223 Music Appreciation II <input type="checkbox"/> PHIL 1113 Introduction to Philosophy (FO) <input type="checkbox"/> SOC 2433 Global Studies in Culture and Diversity (TBD Summer) <input type="checkbox"/> SPCH 1523 Introduction to Theatre (FO) <input type="checkbox"/> SPAN 2103 Global Studies in Spanish (FO) | 3 hrs. | MAJOR FIELD ELECTIVES AND SUPPORT <input type="checkbox"/> PSY 2023 Developmental Psychology |
| | | 26 hrs. | TOTAL REQUIRED MAJOR FIELD HOURS |
| | | 62 hrs. | MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE |
| 3 hrs. | Mathematics <i>Select one of the following:</i> <input type="checkbox"/> MATH 1513 Pre-Calculus for Eng-Phys-CS <input type="checkbox"/> MATH 1613 Plane Trigonometry <input type="checkbox"/> MATH 2215 Calculus and Analytic Geometry I (SO) | | |
| | Life Science <input checked="" type="checkbox"/> <i>met by program</i> | | |
| | Physical Science <input checked="" type="checkbox"/> <i>met by program</i> | | |
| 3 hrs. | Computer Applications <input type="checkbox"/> CAP 1103 Introduction to Microsoft Office | | |
| 2 hrs. | Health, Physical Education and Recreation <input type="checkbox"/> HPER 1012 Wellness and Human Development | | |
| 2 hrs. | Student Success Required during first semester <input type="checkbox"/> STSC 1002 Learning Strategies | | |
| 3 hrs. | Psychology, Soc. Science, World Language, or Fine Arts Elective <input type="checkbox"/> PSY 1113 General Psychology | | |
| 34 hrs. | TOTAL REQUIRED GENERAL EDUCATION HOURS | | |

revised 11/2018

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Semester by Semester Suggested Degree Plan* Secondary Education – Physics Teacher Emphasis Associate in Science

| COURSE NUMBER- COURSE DESCRIPTION | HOURS |
|---|-----------|
| FRESHMAN YEAR, FALL | |
| <input type="checkbox"/> STSC 1002 LEARNING STRATEGIES | 2 |
| <input type="checkbox"/> HPER 1012 WELLNESS AND HUMAN DEVELOPMENT | 2 |
| <input type="checkbox"/> ENG 1113 COMPOSITION I | 3 |
| <input type="checkbox"/> MATH 1513 PRE-CALC FOR ENG-PHYS-CS | 3 |
| <input type="checkbox"/> MATH 1613 TRIGONOMETRY | 3 |
| <input type="checkbox"/> PSY 1113 GENERAL PSYCHOLOGY | 3 |
| TOTAL: | 16 |
| FRESHMAN YEAR, SPRING | |
| <input type="checkbox"/> ENG 1213 COMPOSITION II | 3 |
| <input type="checkbox"/> CAP 1103 INTRODUCTION TO MICROSOFT OFFICE | 3 |
| <input type="checkbox"/> MATH 2215 CALCULUS AND ANALYTICAL GEOMETRY I | 5 |
| <input type="checkbox"/> BIOL 1214 PRINCIPLES OF BIOLOGY | 4 |
| <input type="checkbox"/> MAJOR FIELD REQUIREMENT | 3 |
| TOTAL: | 18 |
| SOPHOMORE YEAR, FALL | |
| <input type="checkbox"/> HUM | 3 |
| <input type="checkbox"/> GOV 1113 AMERICAN NATIONAL GOVERNMENT | 3 |
| <input type="checkbox"/> PHYS 2114 GENERAL PHYSICS I | 4 |
| <input type="checkbox"/> PHYS 2211 CALCULUS BASED PHYSICS I | 1 |
| <input type="checkbox"/> HIST 1483/1493 AMERICAN HISTORY SURVEY TO 1877 OR SINCE 1877 | 3 |
| TOTAL: | 14 |
| SOPHOMORE YEAR, SPRING | |
| <input type="checkbox"/> HUM | 3 |
| <input type="checkbox"/> PHYS 2224 GENERAL PHYSICS II | 4 |
| <input type="checkbox"/> PHYS 2231 CALCULUS BASED PHYSICS I | 1 |
| <input type="checkbox"/> PSY 2023 DEVELOPMENTAL PSYCHOLOGY | 3 |
| <input type="checkbox"/> SPCH 1143 SPEECH | 3 |
| TOTAL: | 14 |
| TOTAL HOURS: | 62 |

*THIS IS A GUIDE TO HELP STUDENTS WITH PLANNING. A STUDY OF THE COURSE SCHEDULE AND A VISIT WITH YOUR ACADEMIC ADVISOR IS CRUCIAL FOR SUCCESS IN COMPLETING YOUR DEGREE.

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