

FRANKS SCHOOL OF EDUCATION

Trine University's Franks School of Education includes this department:

- Shevenaugh Department of Elementary Education

Academic programs administered by the school are as follows:

- Bachelor of Science
Majors
 - Elementary Education
 - Health/Physical Education
 - Mathematics Education
 - Science Education
 - Social Studies Education

Information presented here is subject to change at any time, depending on actions taken by the Indiana Department of Education/Office of Educator Licensing and Development. Students are responsible for meeting any requirements for licensure that are in effect at the time they seek to be licensed. The requirements may differ from what is presented in this document. Students should remain alert to changes in requirements. Updated information is available from the Franks School of Education.

THE SCHOOL

The Franks School of Education was named in honor of Lawrence A. Franks, a 1959 mechanical engineering graduate and member of the University's Board of Trustees.

Established in 1884 by a group of Angola citizens, the University began as part of the normal school movement that spread throughout much of the United States during the last half of the nineteenth century. The initial course of study at Tri-State Normal College included teacher education and commerce. In 1921, Frances Kain Shevenaugh earned her "teaching certificate" at Tri-State by completing a twelve-week course of study. In June, 2001, the University reorganized its basic structure to make education a visible component. To renew the tradition of serving the needs of public education in the service area and beyond, the School of Education was created.

All education programs are built upon three major components that are deemed necessary for effective and productive teachers—content, communication, and caring. Each is dependent upon the other, and together they describe the know-ledge, dispositions, and performances of a knowledgeable, reflective educator.

ACCREDITATION

The Trine University Franks School of Education is accredited by the Indiana Department of Education/Office of Educator Licensing and Development (DOE/OELD) and by the National Council for Accreditation of Teacher Education (NCATE).

MISSION OF THE SCHOOL

The mission of the Franks School of Education at Trine University is to provide an educational atmosphere in which each teacher candidate is challenged to become the best educator he or she can be. Faculty members of the School are committed to helping each future educator achieve his or her potential as a knowledgeable, reflective educator who is committed to and able to provide for the growth of all learners.

PROFESSIONAL COMMITMENTS AND DISPOSITIONS

The Franks School of Education at Trine University adopted the ten principles developed by the Interstate New Teacher Assessment and Support Consortium (INTASC) as program objectives, and two additional objectives specific to the mission of the School.

1. The teacher candidate understands the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches, and can create learning experiences that make these aspects of subject matter meaningful for students.
2. The teacher candidate understands how children learn and develop, and can provide learning opportunities that support their intellectual, social, and personal development.
3. The teacher candidate understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.
4. The teacher candidate understands and uses a variety of instructional strategies to encourage students' development of critical thinking, problem solving, and performance skills.
5. The teacher candidate uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
6. The teacher candidate uses knowledge of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.
7. The teacher candidate plans instruction based upon knowledge of subject matter, students, the community, and curriculum goals.
8. The teacher candidate understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner.
9. The teacher candidate is a reflective practitioner who continually evaluates the effects of his/her choices and actions on others (students, parents, and other professionals in the learning community) and who actively seeks out opportunities to grow professionally.
10. The teacher candidate fosters relationships with school, colleagues, parents, and agencies in the larger community to support students' learning and well-being.

11. The teacher candidate organizes and implements instruction for students based on an understanding of the caring ethic.

12. The teacher candidate understands and applies interpersonal communication skills that support the caring ethic.

ADMISSION TO TEACHER EDUCATION

Two courses, EDU 111 Freshman Practicum and EDU 211 Sophomore Practicum, may be taken prior to official admission to teacher education. Other courses with EDU prefixes may be taken only after the candidate has applied to and has been accepted into teacher education. A candidate may apply for admission to teacher education (which allows her/him to pursue a teacher education degree in a selected major) after completing the following:

1. earned state of Indiana passing scores on reading, writing, and mathematics sections of Praxis I;
2. completed 12 semester hours of university credit with a cumulative GPA of 2.5 or higher;
3. submitted three positive letters of recommendation supporting the candidate's admission to teacher education;
4. submitted an expanded criminal background check; and
5. submitted appropriate application forms.

Transfer students must meet similar requirements. The Franks School of Education should be contacted for further details (260.665.4121).

APPROVED PROGRAMS

All teacher preparation programs are approved by the Indiana Department of Education/Office of Educator Licensing and Development and the National Council for Accreditation of Teacher Education.

Approved programs include the following:

- Elementary Education (K-6)*
- Health/Physical Education (K-12)*
- Mathematics Education (5-12 or 9-12)*
- Science Education (5-12 or 9-12)*
- Social Studies Education (5-12 or 9-12)*

Science education majors must choose at least one content area from biology, chemistry, or physics.

Social studies education majors must choose at least three content areas from economics, geographical perspectives, government and citizenship, historical perspectives, and/or psychology.

Applicable standards for each program are INTASC general standards, IDOE/OELD developmental standards, and IDOE/OELD content standards.

REMAINING IN TEACHER EDUCATION

Once officially admitted, retention in teacher education is contingent upon good academic standing and successful passing of Benchmark requirements. The GPA required for admission is 2.5 overall. Upon admission, if the candidate's GPA falls below 2.5, the candidate will be placed on probation. Education courses may be taken the next semester only with permission of the Teacher Education Committee. If the GPA remains below 2.5 at the completion of the probationary term, the candidate no longer is eligible to take EDU courses and may apply for readmission when a satisfactory GPA is achieved. The candidate must also successfully meet requirements at various checkpoints (Benchmark #1, #2, #3, #4).

TESTING REQUIREMENTS

To be eligible for admission to teacher education, state of Indiana passing scores on Praxis I reading, writing, and mathematics tests must be submitted. To be eligible for student teaching, state of Indiana passing score(s) on required Praxis II content specialty test(s) must be submitted. Information about the PRAXIS Series is available in the Franks School of Education office or online at www.ets.org. The Franks School of Education should always be consulted before a test is taken to ensure most recent testing requirements are met.

STUDENT TEACHING

Student teaching is completed in an area school, generally within 40 miles of the University, as assigned by the dean of the Franks School of Education. The student teacher participates in a classroom with a cooperating teacher for 10-11 full weeks. The GPA requirement for enrollment in student teaching is 2.5 overall, as well as 2.5 in all intended areas of licensure. To be eligible for licensure, the teacher candidate must have earned an overall GPA of 2.5 or higher, a GPA of 2.5 or higher in all areas of licensure, must have successfully completed student teaching with a GPA of 2.5 or higher, and must have met all Benchmark requirements at established levels.

LICENSING ADVISOR

Trine University's licensing advisor is the dean of the Franks School of Education.

In the degree program descriptions that follow, an asterisk (*) indicates courses that satisfy the University's General Education Requirements.

BACHELOR OF SCIENCE ELEMENTARY EDUCATION (K-6) 124 HRS.

To be eligible for licensure as an elementary teacher in grades K-6, the following program of study must be completed.

PROGRAM REQUIREMENTS	REQUIRED HOURS
WRITTEN COMMUNICATION	6 HRS.
*ENG 103 English Composition I	(3)
*ENG 113 English Composition II	(3)
ORAL COMMUNICATION	3 HRS.
*SP 203 Effective Speaking	
or	
*COM 163 Interpersonal Communication	(3)
SOCIAL SCIENCES & HUMANITIES	31 HRS.
*PSY 113 Principles of Psychology	(3)
*ENG 153 Introduction to Literature	(3)
*ECO 213 Microeconomics	
or	
*ECO 223 Macroeconomics	(3)
*GOV 113 Introduction to Government	(3)
*HIS 103 American History I	(3)
*HIS 113 American History II	(3)
*SOC 323 The Family	(3)
GEO 303 Human Geography	(3)
GEO 323 World Geography	(3)
*ART 252 Art Appreciation	(2)
*MUS 272 Music Appreciation	(2)
MATHEMATICS & SCIENCE	20 HRS.
*MA 184 Math for Elementary Teachers I	(4)
*MA 194 Math for Elementary Teachers II	(4)
*BIO 104 General Biology	(4)
*PH 104 Physical Science	(4)
*AST 201 Astronomy Laboratory	(1)
*AST 203 Astronomy	(3)
HEALTH & PHYSICAL EDUCATION	6 HRS.
EXS 102 Lifetime Wellness	(2)
HPE 232 Physical Education for the Elementary School Teacher	(2)
HPE 342 School and Community Health	(2)

FRESHMAN STUDIES**1 HR.**

UE	101	University Experience	(1)
----	-----	-----------------------	-----

PROFESSIONAL STUDIES REQUIREMENTS (GRADES K-6)**53 HRS.**

EDU	111	Freshman Practicum	(1)
EDU	211	Sophomore Practicum	(1)
EDU	212	Introduction to Music Fundamentals	(2)
EDU	222	Educational Psychology for Early Childhood/Middle Childhood Teachers	(2)
EDU	301**	Introduction to Teaching Practicum	(1)
EDU	303**	Introduction to Teaching	(3)
EDU	311	Junior Practicum	(1)
EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	342	The Kindergarten Experience	(2)
EDU	353	Children's Literature	(3)
EDU	441**	Teaching of Reading Practicum	(1)
EDU	445**	Teaching of Reading	(5)
EDU	452	Art for the Elementary Teacher	(2)
EDU	454**	Methods of Teaching Mathematics and Science	(4)
EDU	462**	Educational Measurement	(2)
*EDU	463	Educational Media and Technology	(3)
EDU	464**	Methods of Teaching Language Arts and Social Studies	(4)
EDU	470**	Supervised Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

**Course must be taken at Trine University

ELECTIVES**4 HRS.****TOTAL IN DEGREE PROGRAM:****124 HRS.**

In addition to the professional education courses taken to be eligible for licensure at the elementary level (K-6), the following courses must be completed to enable the elementary education student to be eligible for licensure at the middle school level (5-9).

EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	472**	Practicum in Teaching—Middle School	(2)

In addition to the courses required as part of the elementary education program, the courses listed below for at least one content area are required for licensure at the middle level.

MATHEMATICS**MATHEMATICS COURSES REQUIRED****IN ELEMENTARY EDUCATION PROGRAM:****8 HRS.**

MA	184	Math for the Elementary Teacher I	(4)
MA	194	Math for the Elementary Teacher II	(4)

ADDITIONAL COURSES REQUIRED IN MATHEMATICS: 13 HRS.

MA	113	College Algebra	(3)
MA	123	Trigonometry	(3)
MA	134	Calculus I	(4)
MA	253	Statistics	(3)

SCIENCE (LIFE SCIENCE)

SCIENCE COURSES REQUIRED IN ELEMENTARY EDUCATION PROGRAM:12 HRS.

AST	201	Astronomy Laboratory	(1)
AST	203	Astronomy	(3)
BIO	104	General Biology	(4)
PH	104	Physical Science	(4)
Additional courses required in science:			11 HRS.
BIO	254	Human Anatomy	(4)
CH	144	Chemistry - Ideas and Applications	(4)
GEO	213	Physical Geography	
or			
GLY	273	Geology	(3)

SOCIAL STUDIES

(HISTORICAL PERSPECTIVES) SOCIAL STUDIES COURSES

REQUIRED IN ELEMENTARY EDUCATION PROGRAM: 18 HRS.

GOV	113	Introduction to Government	(3)
HIS	103	American History I	(3)
HIS	113	American History II	(3)
SOC	323	The Family	(3)
GEO	303	Human Geography	(3)
GEO	323	World Geography	(3)

ADDITIONAL COURSES REQUIRED IN SOCIAL STUDIES: 9 HRS.

HIS	203	World Civilization I	(3)
HIS	213	World Civilization II	(3)
GEO	213	Physical Geography	(3)

ENGLISH/LANGUAGE ARTS

ENGLISH/LANGUAGE ARTS COURSES REQUIRED IN

ELEMENTARY EDUCATION PROGRAM: 22 HRS.

ENG	103	English Composition I	(3)
ENG	113	English Composition II	(3)

ENG	153	Introduction to Literature	(3)
EDU	353	Children's Literature	(3)
EDU	445	Teaching of Reading	(5)
EDU	464	Methods of LA/SS	(2)
SP	203	Effective Speaking	or
COM	163	Interpersonal Communication	(3)

ADDITIONAL COURSES REQUIRED IN ENGLISH/LANGUAGE ARTS:9 HRS.

ENG	363	The English Language	(3)
SP	203	Effective Speaking	
		or	
COM	163	Interpersonal Communication	(3)
		(course not taken as part of required program)	
COM	203	Media and Communication	(3)

In the degree program descriptions that follow, an asterisk (*) indicates courses that satisfy the University's General Education Requirements.

BACHELOR OF SCIENCE HEALTH/PHYSICAL EDUCATION (K-12) 137 HRS.

To be eligible for licensure as a health and/or physical education teacher in grades K-12, the following program of study must be completed.

PROGRAM REQUIREMENTS REQUIRED HOURS

WRITTEN COMMUNICATION 6 HRS.

- *ENG 103 English Composition I (3)
- *ENG 113 English Composition II (3)

ORAL COMMUNICATION 3 HRS.

- *SP 203 Effective Speaking (3)

SOCIAL SCIENCES & HUMANITIES 18 HRS.

- *PSY 113 Principles of Psychology (3)
- *ENG 153 Introduction to Literature (3)
- *Social Sciences electives (3)
- *Humanities electives (6)
- Choose one of the following HIS courses: (3)
- *HIS 103 American History I
- *HIS 113 American History II
- *HIS 203 World Civilization I
- *HIS 213 World Civilization II

MATHEMATICS & SCIENCE 11 HRS.

- *MA 113 College Algebra
- or
- *MA 153 Elements of Mathematics (3)
- *BIO 104 General Biology (4)
- *BIO 254 Human Anatomy (4)

GENERAL EDUCATION ELECTIVES 2 HRS.

- *EXS 102 Lifetime Wellness (2)

FRESHMAN STUDIES 1 HR.

- *UE 101 University Experience (1)

PROFESSIONAL STUDIES REQUIREMENTS (GRADES K-12) 45 HRS.

- EDU 111 Freshman Practicum (1)
- EDU 211 Sophomore Practicum (1)
- EDU 212 Introduction to Music Fundamentals (2)
- EDU 222 Educational Psychology for the Elementary Teacher (2)

EDU	232	Educational Psychology for Middle Grade and Secondary Teachers	(2)
EDU	301**	Introduction to Teaching Practicum	(1)
EDU	303**	Introduction to Teaching	(3)
EDU	311	Junior Practicum	(1)
EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	333**	Reading in the Content Area Health Practicum	(3)
EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	432**	Practicum in Teaching—Secondary	(2)
EDU	442**	Special Methods for the Secondary Teacher	(2)
EDU	462**	Educational Assessment	(2)
*EDU	463	Educational Media and Technology	(3)
EDU	470**	Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

**Course must be taken at Trine University

HEALTH & PHYSICAL EDUCATION

49 HRS.

EXS	103	Teaching of Sport Skills I	(3)
EXS	123	Teaching of Sport Skills II	(3)
EXS	131	First Aid	(1)
EXS	243	Athletic Training	(3)
EXS	273	Nutrition	(3)
EXS	333	Kinesiology	(3)
EXS	353	Exercise Physiology	(3)
EXS	433	Developing Health Promotion Programs for Adults	(3)
EXS	463	Motor Learning	(3)
HPE	202	Introduction to Adaptive Physical Education	(2)
HPE	212	Adaptive Physical Education	(2)
HPE	223	History of Physical Education and Sport	(3)
HPE	232	Physical Education for Elementary School Teacher	(2)
HPE	253	Risk Management in PE and Sport	(3)
HPE	332	Drug Education	(2)
HPE	342	School and Community Health	(2)
HPE	352	Family Life Education	(2)
HPE	373	Health Problems	(3)
HPE	413	Organization and Administration of Physical Education and Athletics	(3)

TOTAL IN DEGREE PROGRAM:

135 HRS.

BACHELOR OF SCIENCE MATHEMATICS EDUCATION (9-12, 5-12) 124-125 HRS.

To be eligible for licensure as a mathematics teacher in grades 9-12 or 5-12, the following program of study must be completed.

PROGRAM REQUIREMENTS HOURS	REQUIRED
WRITTEN COMMUNICATION	6 HRS.
*ENG 103 English Composition I	(3)
*ENG 113 English Composition II	(3)
ORAL COMMUNICATION	3 HRS.
*SP 203 Effective Speaking	
or	
*COM 163 Interpersonal Communication	(3)
SOCIAL SCIENCES & HUMANITIES	18 HRS.
*PSY 113 Principles of Psychology	(3)
*ENG 153 Introduction to Literature	(3)
*HIS electives	(3)
*Social Sciences electives	(3)
*Humanities electives	(6)
COMPUTER LITERACY	2-3 HRS.
*INF 132 Integrated Development (Visual Basic)	
or	
*INF 163 Structured Logic and Design (C programming)	(2-3)
MATHEMATICS & SCIENCE	10 HRS.
*MA 312 Historical Aspects of Mathematics	(2)
Lab Science electives	(4)
Lab Science electives	(4)
GENERAL EDUCATION ELECTIVES	2-3 HRS.
*EXS 102 Lifetime Wellness	(2)
1 hour elective chosen from categories above	(0-1)
FRESHMAN STUDIES	1 HR.
UE 101 University Experience	(1)
PROFESSIONAL STUDIES REQUIREMENTS (GRADES 9-12)	37 HRS.
EDU 111 Freshman Practicum	(1)

EDU	211	Sophomore Practicum	(1)
EDU	232	Educational Psychology for Middle Grade and Secondary Teachers	(2)
EDU	301**	Introduction to Teaching Practicum	(1)
EDU	303**	Introduction to Teaching	(3)
EDU	311	Junior Practicum	(1)
EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	333**	Reading in the Content Area	(3)
EDU	432**	Practicum in Teaching—Secondary	(2)
EDU	442**	Special Methods for the Secondary Teacher	(2)
EDU	462**	Educational Measurement	(2)
*EDU	463**	Educational Media and Technology	(3)
EDU	470**	Supervised Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

ADDITIONAL PROFESSIONAL STUDIES REQUIREMENTS (GRADES 5–12) 6 HRS.

EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	472**	Practicum in Teaching—Middle School	(2)

**Course must be taken at Trine University

MATHEMATICS REQUIREMENTS

32 HRS.

*MA	134	Calculus I	(4)
*MA	164	Calculus II	(4)
MA	213	Calculus III	(3)
MA	233	Differential Equations	(3)
MA	303	College Geometry	(3)
MA	313	Linear Algebra	(3)
MA	343	Sets and Logic	(3)
MA	373	Abstract Algebra	(3)
MA	393	Probability and Statistics	(3)
MA	473	Discrete Mathematics	(3)

ELECTIVES

(Electives are determined in consultation with academic advisors and are based on student career objectives.)

Grades 9–12 Licensure	11-12 HRS.
Grade 5–12 Licensure	6 HRS.

TOTAL IN DEGREE PROGRAM:

124-125 HRS.

In the degree program descriptions that follow, an asterisk (*) indicates courses that satisfy the University's General Education Requirements.

**BACHELOR OF SCIENCE EDUCATION/LIFE SCIENCES
(BIOLOGY) (9-12, 5-12)**

124-130 HRS.

To be eligible for licensure as a life sciences (biology) teacher in grades 9-12 or 5-12, the following program of study must be completed.

**PROGRAM REQUIREMENTS
HOURS**

REQUIRED

WRITTEN COMMUNICATION

6 HRS.

- *ENG 103 English Composition I (3)
- *ENG 113 English Composition II (3)

ORAL COMMUNICATION

3 HRS.

- *SP 203 Effective Speaking
- or
- *COM 163 Interpersonal Communication (3)

SOCIAL SCIENCES & HUMANITIES

18 HRS.

- *ENG 153 Introduction to Literature (3)
- *PSY 113 Principles of Psychology (3)
- *History elective (3)
- *Humanities electives (6)
- *Social Sciences electives (3)

COMPUTER LITERACY

3 HRS.

- *INF 103 Information Technology Applications (3)

MATHEMATICS & SCIENCE

10 HRS.

- *BIO 114 Principles of Biology I (4)
- *BIO 213 Conservation (3)
- *MA 113 College Algebra (or higher) (3)

HEALTH & PHYSICAL EDUCATION

2 HRS.

- *EXS 102 Lifetime Wellness (2)

FRESHMAN

1 HR.

- UE 101 University Experience (1)

PROFESSIONAL STUDIES REQUIREMENTS (GRADES 9-12)

37 HRS.

- EDU 111 Freshman Practicum (1)
- EDU 211 Sophomore Practicum (1)
- EDU 232 Educational Psychology
for Middle Grade and Secondary Teachers (2)
- EDU 301** Introduction to Teaching Practicum (1)

EDU	303**	Introduction to Teaching	(3)
EDU	311	Junior Practicum	(1)
EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	333**	Reading in the Content Area	(3)
EDU	432**	Practicum in Teaching—Secondary	(2)
EDU	442**	Special Methods for the Secondary Teacher	(2)
EDU	462**	Educational Measurement	(2)
*EDU	463**	Educational Media and Technology	(3)
EDU	470**	Supervised Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

ADDITIONAL PROFESSIONAL STUDIES REQUIREMENTS (GRADES 5–12) 6 HRS.

EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	472**	Practicum in Teaching—Middle School	(2)

**Course must be taken at Trine University

SCIENCE REQUIREMENTS

44 HRS.

BIO	254	Human Anatomy	(4)
BIO	304	Plant Biology	(4)
BIO	314	Animal Biology	(4)
BIO	324	Microbiology	(4)
BIO	333	Environmental Biology	(3)
BIO	354	Animal Physiology	(4)
BIO	414	Genetics	(4)
CH	104	General Chemistry I	(4)
CH	114	General Chemistry II	(4)
MA	123	Trigonometry	
or			
MA	253	Statistics	(3)
PH	154	College Physics I	(4)
SC	412	Senior Research Seminar	(2)

TOTAL IN DEGREE PROGRAM GRADES 9-12 LICENSURE 124 HRS.
GRADES 5-12 LICENSURE 130 HRS.

In the degree program descriptions that follow, an asterisk (*) indicates courses that satisfy the University's General Education Requirements.

BACHELOR OF SCIENCE

SCIENCE EDUCATION/CHEMISTRY (9-12, 5-12) 124-130 HRS.

To be eligible for licensure as a chemistry teacher in grades 9–12 or 5–12, the following program of study must be completed.

PROGRAM REQUIREMENTS

REQUIRED HOURS

WRITTEN COMMUNICATION

6 HRS.

*ENG 103 English Composition I (3)

*ENG 113 English Composition II (3)

ORAL COMMUNICATION

3 HRS.

*SP 203 Effective Speaking
or

*COM 163 Interpersonal Communication (3)

SOCIAL SCIENCES & HUMANITIES

18 HRS.

*ENG 153 Introduction to Literature (3)

*PSY 113 Principles of Psychology (3)

*History elective (3)

*Humanities electives (6)

*Social Sciences electives (3)

COMPUTER LITERACY

3 HRS.

*INF 103 Information Technology Applications

MATHEMATICS & SCIENCE

10 HRS.

*CH 104 General Chemistry I
or

*CH 104H Honors General Chemistry I (4)

*BIO 213 Conservation (3)

*MA 113 College Algebra (or higher) (3)

HEALTH & PHYSICAL EDUCATION

2 HRS.

*EXS 102 Lifetime Wellness (2)

FRESHMAN STUDIES

1 HR.

UE 101 University Experience (1)

PROFESSIONAL STUDIES REQUIREMENTS (GRADES 9–12)

37 HRS.

EDU 111 Freshman Practicum (1)

EDU 211 Sophomore Practicum (1)

EDU 232 Educational Psychology
for Middle Grade and Secondary Teachers (2)

EDU	301**	Introduction to Teaching Practicum	(1)
EDU	303**	Introduction to Teaching	(3)
EDU	311	Junior Practicum	(1)
EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	333**	Reading in the Content Area	(3)
EDU	432**	Practicum in Teaching—Secondary	(2)
EDU	442**	Special Methods for the Secondary Teacher	(2)
EDU	462**	Educational Measurement	(2)
*EDU	463**	Educational Media and Technology	(3)
EDU	470**	Supervised Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

ADDITIONAL PROFESSIONAL STUDIES REQUIREMENTS (GRADES 5–12) 6 HRS.

EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	472**	Practicum in Teaching - Middle School	(2)

**Course must be taken at Trine University

SCIENCE REQUIREMENTS

45-46 HRS.

CH	114	General Chemistry II	
or			
CH	114H	Honors General Chemistry II	(4)
CH	203	Organic Chemistry I	(3)
CH	211	Organic Chemistry I Lab	(1)
CH	213	Organic Chemistry II	(3)
CH	221	Organic Chemistry II Lab	(1)
CH	232	Quantitative Analysis	(2)
CH	351	Physical Chemistry I Lab	(1)
CH	353	Physical Chemistry I	(3)
MA	134	Calculus I	(4)
MA	164	Calculus II	(4)
MA	213	Calculus III	(3)
PH	224	University Physics I	(4)
PH	234	University Physics II	(4)
SC	412	Senior Research Seminar	(2)

At least two of the following courses for a total of 45 or more hours:

(39 + 3 + 3 = 45) or (39 + 3 + 4 = 46)

CH	324	Chemical Instrumental Analysis	(4)
CH	363	Physical Chemistry II	(3)
CH	434	Biochemistry	(4)

TOTAL IN DEGREE PROGRAM: GRADES 9-12 LICENSURE 125–126 HRS.

GRADES 5-12 LICENSURE 131–132 HRS.

In the degree program descriptions that follow, an asterisk (*) indicates courses that satisfy the University's General Education Requirements.

BACHELOR OF SCIENCE

SCIENCE EDUCATION/PHYSICS (9-12, 5-12) 124-130 HRS.

To be eligible for licensure as a physics teacher in grades 9-12 or 5-12, the following program of study must be completed.

PROGRAM REQUIREMENTS REQUIRED HOURS

WRITTEN COMMUNICATION 6 HRS.

- *ENG 103 English Composition I (3)
- *ENG 113 English Composition II (3)

ORAL COMMUNICATION 3 HRS.

- *SP 203 Effective Speaking
- or
- *COM 163 Interpersonal Communication (3)

COMPUTER LITERACY 3 HRS.

- *INF 103 Information Technology Applications

SOCIAL SCIENCES & HUMANITIES 18 HRS.

- *ENG 153 Introduction to Literature (3)
- *PSY 113 Principles of Psychology (3)
- *History elective (3)
- *Humanities electives (6)
- *Social Sciences electives (3)

MATHEMATICS & SCIENCE 10 HRS.

- *CH 104 General Chemistry I
- or
- *CH 104H Honors General Chemistry I (4)
- *BIO 213 Conservation (3)
- *MA 113 College Algebra (or higher) (3)

FITNESS & RECREATIONAL PROGRAMMING 2 HRS.

- *EXS 102 Lifetime Wellness (2)

FRESHMAN STUDIES 1 HR.

- UE 101 University Experience (1)

PROFESSIONAL STUDIES REQUIREMENTS (GRADES 9-12) 37 HRS.

- EDU 111 Freshman Practicum (1)
- EDU 211 Sophomore Practicum (1)
- EDU 232 Educational Psychology for Middle Grade and Secondary Teachers (2)

EDU	301**	Introduction to Teaching Practicum	(1)
EDU	303**	Introduction to Teaching	(3)
EDU	311	Junior Practicum	(1)
EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	333**	Reading in the Content Area	(3)
EDU	432**	Practicum in Teaching—Secondary	(2)
EDU	442**	Special Methods for the Secondary Teacher	(2)
EDU	462**	Educational Measurement	(2)
*EDU	463**	Educational Media and Technology	(3)
EDU	470**	Supervised Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

ADDITIONAL PROFESSIONAL STUDIES REQUIREMENTS (GRADES 5-12) 6 HRS.

EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	472**	Practicum in Teaching—Middle School	(2)

**Course must be taken at Trine University

SCIENCE REQUIREMENTS

44 HRS.

CH	114	General Chemistry II	
or			
CH	114H	Honors General Chemistry II	(4)
MA	134	Calculus I	(4)
MA	164	Calculus II	(4)
MA	213	Calculus III	(3)
MA	233	Differential Equations	(3)
PH	224	University Physics I	(4)
PH	234	University Physics II	(4)
PH	303	Modern Physics	(3)
PH	323	Electromagnetism	(3)
PH	333	Mechanics	(3)
PH	343	Mathematical Methods	(3)
SC	412	Senior Research Seminar	(2)

One of the following:

ECE	211/213	Circuit Analysis and Lab	
or			
PH	4004	Special Topics in Physics	(4)

TOTAL IN DEGREE PROGRAM:

GRADES 9-12 LICENSURE	124 HRS.
GRADES 5-12 LICENSURE	130 HRS.

In the degree program descriptions that follow, an asterisk (*) indicates courses that satisfy the University's General Education Requirements.

BACHELOR OF SCIENCE

SOCIAL STUDIES EDUCATION (9-12, 5-12)

126-135 HRS.

To be eligible for licensure as a social studies teacher in grades 9-12 or 5-12, the following program of study must be completed.

PROGRAM REQUIREMENTS

REQUIRED HOURS

WRITTEN COMMUNICATION

6 HRS.

*ENG 103 English Composition I (3)
*ENG 113 English Composition II (3)

ORAL COMMUNICATION

3 HRS.

*SP 203 Effective Speaking
or
*COM 163 Interpersonal Communication (3)

SOCIAL SCIENCES & HUMANITIES

18 HRS.

*PSY 113 Principles of Psychology (3)
*ENG 153 Introduction to Literature (3)
*HIS 103 American History I (3)
*HIS 203 World Civilization I (3)
*Humanities electives (6)

MATHEMATICS & SCIENCE

10 HRS.

*MA 113 College Algebra
or
*MA 153 Elements of Mathematics (3)
*GEO 213 Physical Geography (3)
*Lab Science electives (4)

GENERAL EDUCATION ELECTIVES

1 HR.

1 hour elective chosen from categories above

FRESHMAN STUDIES

1 HR.

UE 101 University Experience (1)

PROFESSIONAL STUDIES REQUIREMENTS (GRADES 9-12)

37 HRS.

EDU 111 Freshman Practicum (1)
EDU 211 Sophomore Practicum (1)
EDU 232 Educational Psychology for
Middle Grade and Secondary Teachers (2)
EDU 301** Introduction to Teaching Practicum (1)
EDU 303** Introduction to Teaching (3)
EDU 311 Junior Practicum (1)

EDU	312	Exceptional Children in the Schools	(2)
EDU	323	Foundations of Education	(3)
EDU	333**	Reading in the Content Area	(3)
EDU	432**	Practicum in Teaching - Secondary	(2)
EDU	442**	Special Methods for the Secondary Teacher	(2)
EDU	462**	Educational Measurement	(2)
*EDU	463**	Educational Media and Technology	(3)
EDU	470**	Supervised Student Teaching	(10)
EDU	471**	Student Teaching Seminar	(1)

ADDITIONAL PROFESSIONAL STUDIES REQUIREMENTS (GRADES 5-12) 6 HRS.

EDU	412	The Middle School	(2)
EDU	422	Middle School Methods	(2)
EDU	472**	Practicum in Teaching - Middle School	(2)

**Course must be taken at Trine University

SOCIAL STUDIES REQUIREMENTS

51-54 HRS.

BREADTH (TAKE ALL OF THESE COURSES.)

15 HRS.

GOV	113	Introduction of Government	(3)
HIS	113	American History II	(3)
HIS	213	World Civilization II	(3)
ECO	223	Macroeconomics	(3)
SOC	103	Principles of Sociology	(3)

DEPTH (CHOOSE THREE OF THE FOLLOWING CONCENTRATIONS.)

ECONOMICS

12 HRS.

ECO	213	Microeconomics	(3)
ECO	363	Comparative Economic Systems	(3)
ECO	383	International Economics	(3)
ECO	393	Economic History of the United States	(3)

GEOGRAPHICAL PERSPECTIVES

12 HRS.

GEO	303	Human Geography	(3)
GEO	313	Geography of North America	(3)
GEO	323	World Geography	(3)
GEO	353	Political Geography	(3)

GOVERNMENT AND CITIZENSHIP

12 HRS.

GOV	313	Comparative Governments	(3)
GOV	333	State and Local Government	(3)
GOV	373	Political Psychology	(3)
GOV	403	American Constitutional Development	(3)

HISTORICAL PERSPECTIVES

15 HRS.

HIS	323	The Contemporary World (W)	(3)
HIS	343	American Political Thought (US)	(3)
HIS	363	United States Foreign Policy (US)	(3)
HIS	423	The United States as a World Power (US)	(3)
HIS	453	Readings in World History (W)	(3)

PSYCHOLOGY

12 HRS.

PSY	323	Abnormal Psychology	(3)
PSY	333	Psychology of Personality	(3)
PSY	343	Social Psychology	(3)
PSY	353	Child and Adolescent Psychology	(3)

TOTAL IN DEGREE PROGRAM:

GRADES 9-12 LICENSURE

126-129 HRS.

GRADES 5-12 LICENSURE

132-135 HRS.
