

MATHEMATICS | BACHELOR OF SCIENCE: MATHEMATICS (TEACHING)

Program Summary

Code	Title	Hours
General Education Courses		34
Major Courses		44
Science Requirement ²		20
Cognate Courses		5
Directed Electives		3
Open Electives ¹		14
Total Credit Hours Required for BS - Math		120
Additional Credit Hours Needed for Teacher Education		
Teacher Education Requirements		31

¹ Open electives are the credit hours required to reach a minimum of 120 total hours and 45 upper-level hours. The number listed assumes all courses are completed at FHSU as listed. This number may vary if students transfer courses, or have individual substitutions allowed. Students should speak with their advisor if either situation applies to determine if the number will vary, and to ensure they enroll in a minimum of 45 upper-level hours. Students entering within 1 year of high school graduation will take UNIV 101 Freshman Seminar and may apply that hour in the open elective category.

² A candidate for a Bachelor of Science degree must complete 20 hours of Natural Science coursework outside the major area.

Program Requirements

General Education

All undergraduate degrees require completion of the Kansas Systemwide General Education (<https://catalog.fhsu.edu/general-education/>).

Courses identified with ^{GE} on this page may satisfy a general education requirement in addition to the identified degree requirement. Students who apply a degree requirement to satisfy a general education requirement will typically add an equal number of hours to the the university elective category. This flexibility may allow you to complete a minor or certificate within the 120 hour degree. Transfer students and students majoring in programs with approved exceptions (<https://www.fhsu.edu/general-education/documents/fhsu-gen-ed-transfer-exceptions-explainer1.pdf>) are especially encouraged to select these courses in completing General Education requirements to maximize the likelihood of completing the degree with 120 credit hours.

Code	Title	Hours
General Education		34-35
Major Courses		
CSCI 121	Computer Science I	3
MATH 234	Analytic Geometry and Calculus I ^{GE}	5

MATH 235	Analytic Geometry and Calculus II	5
MATH 236	Analytic Geometry and Calculus III	3
MATH 240	Linear Algebra	3
MATH 250	Elements of Statistics ^{GE}	3
MATH 277	Early Field Experience: Mathematics Education	1
MATH 278	Apprenticeship-Mathematics	2
MATH 301	Introduction to Proof	3
MATH 350	Mathematical Statistics	3
MATH 370	History of Mathematics	3
MATH 381	Teaching of Secondary School Mathematics	3
MATH 610	Higher Algebra	3
MATH 620	Modern Geometry	3
MATH 675	Seminar in Mathematics	1
MATH 300+	Select one 300+ level Mathematics elective	3
Cognate Courses		
PHYS 211	Engineering Physics I ^{GE}	4
PHYS 211L	Engineering Physics I Laboratory ^{GE}	1
Total Hours		52

¹ For the dual major of Mathematics and Education, a candidate must also complete the curriculum below.

The Bachelor of Science in Education with a emphasis in Secondary Education is available only as part of a dual major in conjunction with a major in an academic teaching field approved by the KSDE at the PreK-12 and 6-12 levels. The teaching fields available at FHSU for students interested in licensure at middle or high school levels are art, biology, business, chemistry, earth/space science, English, modern languages (Spanish), journalism, mathematics, music, physical education, physics, psychology, technology education (communications; power, energy, transportation; production), history and government. For requirements in each content, please contact the appropriate teaching area departmental office. Students wishing to complete the requirements for the Secondary Education major must also meet the Teacher Education Program admission requirements. This program follows the Conceptual Framework for Teacher Education at Fort Hays State University.

Code	Title	Hours
Secondary Education Core		19
Courses from field of study		variable
Student Teaching		12
Total number of credit hours varies based on chosen field of study		

General Education

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General Education		34-35

Program Admission Requirements & General Education Courses

To earn an undergraduate degree at FHSU, you must complete 34 hours of General Education coursework. For the Secondary Education degree the following classes typically applied to the general education requirements must be completed with the specified grade for admission to the teacher education program, these include:

Code	Title	Hours
ENG 101	English Composition I (Grade C) ^{GE}	3
ENG 102	English Composition II (Grade B) ^{GE}	3
COMM 100	Fundamentals of Oral Communication (Grade B) ^{GE}	3
or COMM 304	Intermediate Interpersonal Communication	
MATH 110	College Algebra (Grade C) ^{GE}	3
or MATH 101	Contemporary Mathematics	
or MATH 130	Pre-Calculus Mathematics	
or MATH 234	Analytic Geometry and Calculus I	
MATH 250	Elements of Statistics (Grade C) ^{GE}	3

For a current list of all teacher education admission requirements check out the programs website (<https://www.fhsu.edu/cert/admission-to-teacher-education/>)

Secondary Education Requirements

These requirements are in addition to the requirements for the primary degree

Code	Title	Hours
Secondary Education Core Non-Restricted Courses		
TEEL 202	Foundations of Education (Grade C)	3
TEEL 231	Human Growth and Development (Grade C) ^{GE}	3
TECS 301	Introduction to Instructional Technology (Grade C)	3
___ 277	Early Field Experience (Grade C)	
Secondary Education Core Restricted Courses (Admission to Teacher Education Required)		
TESP 302	Educating Students with Exceptionalities	3
TEEL 431	Educational Psychology	3
TESS 494	The Secondary School Experience	4
Student Teaching Courses		
TESS 496	Student Teaching Secondary	11
TEEL 675	Seminar in Education I	1

Total Secondary Education Courses: 31 Credit Hours. The 31 credit hours doesn't include method classes in the discipline or additional cognates necessary for specific fields.

- All program courses must be completed with a C or better
- Major requires 2.75 GPA

Degree Requirements

Code	Title	Hours
All bachelor degrees require:		
GPA of 2.0 on FHSU courses & 2.0 on all coursework (Higher program requirements prevail over the 2.0 when set)		
A minimum of 30 hours earned from FHSU with a grade of D, C, B, or A		
Successful completion of an upper division Writing and Information Literacy course (Most majors contain a course designated)		
A minimum of 45 hours of recognized upper division credit		
A minimum of 120 hours of recognized college credit		

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A minimum of 45 hours of recognized upper division credit		
A minimum of 120 hours of recognized college credit		