# MATHEMATICS: ACTUARIAL SCIENCE AND FINANCIAL MATHEMATICS, BS

## **Degree Requirements**

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

#### Minimum Overall Grade Point Average: 2.50 Total Hours: 120

Code	Title	Hours
General Education F	lequirements	
English Composition		
-	lation 3.5 (http://catalog.okstate.edu/ -regulations/#english-composition)	
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the fol	lowing:	3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
American History & G	Government	
HIST 1103	Survey of American History	3
or HIST 1483	American History to 1865 (H)	
or HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
Analytical & Quantita	tive Thought (A)	
MATH 2144	Calculus I (A) <sup>1</sup>	4
CS 1103	Computer Programming (A) <sup>1</sup>	3
or CS 1113	Computer Science I (A)	
Humanities (H)		
Courses designated	(H)	6
Natural Sciences (N)		
Must include one La	boratory Science (L) course	
PHYS 1114	College Physics I (LN) <sup>1</sup>	4
or PHYS 2014	University Physics I (LN)	
Course designated (		2
Social & Behavioral S	, ,	
ECON 2103	Introduction to Microeconomics (S) <sup>1,2</sup>	3
Additional General Ec		
Courses designated	(A), (H), (N), or (S)	6
Hours Subtotal		40
	national Dimension (I)	
	n any part of the degree plan	
Select at least one [		
	nternational Dimension (I) course	
College/Department		
First Year Seminar		
	vith 15 hours exempt)	1

See note 2.a. 3 Natural & Mathematical Sciences MATH 2153 Calculus II (A) 3 MATH 2153 Calculus II (A) 3 STAT 4013 Statistical Methods I (A) 3 or STAT 4053 Statistical Methods I (A) 3 or STAT 4053 Statistical Methods I for the Social Sciences (A) Foreign Language See note 3 O-6 hours Upper-Division General Education Select 6 hours outside major department See note 2.c. Hours Subtotal 13 Major Requirements Minimum GPA 2.50 and minimum grade of "C" or "P" in each course in Major Requirements. Mathematics Core Select 3 hours of the following: 3 CS 1113 Computer Science I (A) ENGR 1412 Introductory Engineering Computer Programming STAT 4091 Sas Programming STAT 4091 Sas Programming STAT 4193 SAS and R Programming MATH 2233 Differential Equations 3 MATH 3613 Introduction to Abstract Algebra 3 MATH 3583 Introduction to Mathematical Modeling 3 MATH 3583 Introduction to Mathematical Modeling 3 MATH 4453 Mathematical Interest Theory 3 STAT 403 Mathematical Interest Theory 3 STAT 403 Internediate Analysis MATH 403 Calculus of Several Variables MATH 403 Intermediate Analysis MATH 403 Intermediate Analysis MATH 4043 Intermediate Differential Equations MATH 4053 Advanced Calculus I MATH 4053 Introduction to Nanlerstial Function MATH 4063 Combinatorics MATH 4063 Combinatorics MATH 4063 Combinatorics MATH 4263 Introduction to Numerical Analysis MATH 4264	Arts & Humanities		
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#### 1

College and Departmental Requirements that may be used to meet General Education requirements.

#### 2

Minimum grade of B required for the Society of Actuaries' Validation by Educational Experience (VEE) certification.

#### 3

MSIS 2103 is required when MSIS 3103 or 3393 are selected.

#### 4

These courses should be selected when including pre-MBA preparation.

## **Other Requirements**

- · See the College of Arts and Sciences Requirements.
- Minimum grade of "C" or "P" in all MATH courses.
- Upper-Division Credit: Total hours must include at least 40 hours in courses numbered 3000 or above.

## College of Arts and Sciences Requirements

 Hours in One Department: For B.A. and B.S. degrees, no more than 54 hours in one department may be required to meet degree requirements. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54hour maximum required from one department.

#### 2. A&S College/Departmental Requirements

- a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
- b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.
- c. Six upper-division hours are required from General Education or any CAS courses outside the student's major department (http:// catalog.okstate.edu/college-arts-sciences-major-departments/). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
- d. Non-Western Studies Requirement for B.A. and B.F.A.; One course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
- e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

#### 3. Foreign Language Proficiency

- a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.
- b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.
- In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two

years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

4. Exclusions. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

## Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2030.