MATHEMATICS: PRE-LAW, BS

Requirements for Students Matriculating in or before Academic Year 2020-2021. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL</td>
<td>English Composition</td>
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<tr>
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<td>See Academic Regulation 3.5 (<a href="http://catalog.okstate.edu/university-academic-regulations/#english-composition">http://catalog.okstate.edu/university-academic-regulations/#english-composition</a>)</td>
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<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
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<tr>
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<td>Select one of the following:</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>HIST</td>
<td>American History &amp; Government</td>
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<tr>
<td></td>
<td>See note 2.a.</td>
<td></td>
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<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
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<tr>
<td>or HIST 1483</td>
<td>American History to 1865 (H)</td>
<td></td>
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<tr>
<td>or HIST 1493</td>
<td>American History Since 1865 (DH)</td>
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<tr>
<td>POLS</td>
<td>American Government</td>
<td>3</td>
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<tr>
<td>MATH</td>
<td>Analytical &amp; Quantitative Thought (A)</td>
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<tr>
<td></td>
<td>See note 3</td>
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<tr>
<td>MATH 2144</td>
<td>Calculus I (A)</td>
<td>4</td>
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<tr>
<td>CS</td>
<td>Computer Programming (A)</td>
<td>3</td>
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<tr>
<td>or CS 1113</td>
<td>Computer Science I (A)</td>
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<tr>
<td>社会 &amp; Behavioral Sciences (S)</td>
<td>Courses designated (S)</td>
<td>6</td>
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<tr>
<td>PHYS</td>
<td>College Physics I (LN)</td>
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<td>or PHYS 2014</td>
<td>University Physics I (LN)</td>
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<tr>
<td></td>
<td>Course designated (N)</td>
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<tr>
<td>ECON</td>
<td>Introduction to Microeconomics (S)</td>
<td>3</td>
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<td></td>
<td>Courses designated (A), (H), (N), or (S)</td>
<td>7</td>
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<tr>
<td>Hours Subtotal</td>
<td></td>
<td>41</td>
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</tbody>
</table>

Diversity (D) & International Dimension (I)
May be completed in any part of the degree plan
Select at least one Diversity (D) course
Select at least one International Dimension (I) course

College/Departmental Requirements
First Year Seminar
(Transfer students with 15 hours exempt) 1
Arts & Humanities
See note 2.a.
Natural & Mathematical Sciences
MATH 2153 | Calculus II (A) | 3

MATH 2163 | Calculus III | 3
STAT 4013 | Statistical Methods I (A) | 3
or STAT 4053 | Statistical Methods I for the Social Sciences (A) | 3

Foreign Language
See note 3
0-6 hours
Upper-Division General Education
Select 6 hours outside major department
See note 2.c.

Hours Subtotal | 13

Major Requirements
A minimum grade of “C” or “P” is required in each course.

Mathematics Core
MATH 2233 | Differential Equations | 3
MATH 3013 | Linear Algebra (A) | 3
MATH 3613 | Introduction to Abstract Algebra | 3
MATH 4023 | Introduction to Analysis | 3
MATH 4663 | Combinatorics | 3
Select 3 hours of the following: 3
MATH 3583 | Introduction to Mathematical Modeling | |
MATH 3933 | Research Methods | |
MATH 4423 | Geometry and Algorithms in Three-Dimensional Modeling | |
Select 9 hours of the following: 9
MATH 4013 | Calculus of Several Variables | |
MATH 4063 | Advanced Linear Algebra | |
MATH 4083 | Intermediate Analysis | |
MATH 4143 | Advanced Calculus I | |
MATH 4153 | Advanced Calculus II | |
MATH 4233 | Intermediate Differential Equations | |
MATH 4263 | Introduction to Partial Differential Equations | |
MATH 4283 | Complex Variables | |
MATH 4343 | Introduction to Topology | |
MATH 4403 | Geometry | |
MATH 4423 | Geometry and Algorithms in Three-Dimensional Modeling | |
MATH 4453 | Mathematical Interest Theory | |
MATH 4513 | Numerical Analysis | |
MATH 4553 | Introduction to Optimization | |
MATH 4603 | Intermediate Abstract Algebra | |
MATH 4613 | Abstract Algebra I | |
MATH 4623 | Abstract Algebra II | |
MATH 4713 | Number Theory | |
MATH 4753 | Introduction to Cryptography | |
MATH 4813 | Groups and Representations | |
STAT 4203 | Mathematical Statistics I | |
Select 3 hours of the following: 3
4000-level MATH or STAT
ECON 4213 | Econometric Methods | |
ECON 4223 | Business and Economic Forecasting | |
Upper-division CS or PHYS | |

Pre-Law Preparation 2
Recommended courses:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Subtotal</th>
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<tbody>
<tr>
<td>PSYC 1113</td>
<td>Introductory Psychology (S)</td>
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<tr>
<td>SOC 1113</td>
<td>Introductory Sociology (S)</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 2713</td>
<td>Introduction to Speech Communication (S)</td>
<td>3</td>
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</tbody>
</table>

*See http://preprofessional.okstate.edu for additional information.*

### College of Arts and Sciences Requirements

#### 1. General Education Requirements

No more than two courses (or eight hours) from the major department may be used to meet General Education and College and Departmental Requirements. The General Education requirement English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language for B.A. degrees do not count against the two-course maximum.

#### 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.** The required six hours of upper-division General Education may not include courses from the student’s major department. 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 3-hour 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.).

- **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.

c. 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
a. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum allowed from one department.
b. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

5. Teacher Certification
Students can satisfy the requirements for secondary schools teaching certification while earning a B.A. or B.S. in the College of Arts & Sciences. Those interested should see their Arts and Sciences advisor and the OSU Professional Education Unit in room 325 Willard.

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; one-fourth 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 2026.