

# Mathematics B.A.

## Mathematics B.A. Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan should see the Eight-Semester Degree Policy (<http://catalog.uark.edu/undergradcatalog/academicregulations/eightsemesterdegreecompletionpolicy/>) for university requirements of the program. Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area.

First Year	Units	
	Fall	Spring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3	
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405) (Satisfies General Education Outcome 2.1) <sup>1,2</sup>	4	
Fine Arts or Humanities State Minimum Core requirement (Satisfies General Education Outcome 3.1 or 3.2) <sup>3,4</sup>	3	
Social Science State Minimum Core requirement (Satisfies General Education Outcome 3.3) <sup>5</sup>	3	
General Elective or coursework to be applied towards minor (as needed)	3	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3
MATH 25004 Calculus II <sup>1</sup>		4
MATH 28003 Transition to Advanced Mathematics <sup>1</sup>		3
General elective or coursework to be applied towards minor (as needed)		4
Year Total:	16	14

Second Year	Units	
	Fall	Spring
MATH 26004 Calculus III <sup>1</sup>	4	
MATH 30903 Abstract Linear Algebra <sup>1,6</sup>	3	
Social Sciences State Minimum Core requirement (Select a course which satisfies General Education Outcomes 3.3 and 4.1) <sup>7</sup>	3	
U.S. History or Government State Minimum Core requirement (Satisfies General Education Outcome 4.2)	3	
General Elective or coursework to be applied towards minor (as needed)	3	
CSC 20004 Programming Foundations I		4
MATH/STAT Elective above 3000 level <sup>1,6</sup>		3
Science State Minimum Core Lecture with Corequisite Lab requirement (Satisfies General Education Outcome 3.4)		4

Humanities or Fine Arts State Minimum Core requirement (as needed) (Satisfies General Education Outcome 3.2 or 3.1) <sup>4,3</sup>		3
Year Total:	16	14

Third Year	Units	
	Fall	Spring
MATH 31103 Introduction to Abstract Algebra I <sup>1,6</sup>	3	
Social Sciences State Minimum Core requirement (Select a course which satisfies General Education Outcomes 3.3 and 5.1) <sup>8</sup>	3	
Science University/State Core Lecture with Corequisite Lab requirement (Satisfies General Education Outcome 3.4)	4	
General Electives or coursework to be applied towards minor (as needed)	6	
MATH 35103 Elementary Analysis <sup>1,6</sup>		3
MATH/STAT Elective above 3000 Level <sup>1,6</sup>		3
General Electives or coursework to be applied towards minor (as needed)		9
Year Total:	16	15

Fourth Year	Units	
	Fall	Spring
MATH/STAT Elective Above 3000 level <sup>1,6</sup>	6	
General Elective or coursework to be applied towards minor (as needed)	3	
3000-4000 Level Electives <sup>1</sup>	6	
MATH 49303 Mathematics Major Seminar (Satisfies General Education Outcomes 1.2 and 6.1) <sup>1,6</sup>		3
MATH/STAT Elective Above 3000 Level <sup>1,6</sup>		3
General Electives As Needed		8
Year Total:	15	14

**Total Units in Sequence: 120**

<sup>1</sup> Meets 40-hour advanced credit hour requirement. See College Academic Regulations (<http://catalog.uark.edu/undergradcatalog/collegesandschools/jwilliamfulbrightcollegeofartsandsciences/>).

<sup>2</sup> Students have demonstrated successful completion of the learning indicators identified for learning outcome 2.1, by meeting the prerequisites for MATH 24004.

<sup>3</sup> The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include: ARCH 10003, ARHS 10003, COMM 10003, DANC 10003, LARC 10003, MUSC 10003, MUSC 100H3, MUSC 10103, MUSC 101H3, MUSC 13303, THTR 10003, THTR 10103, or THTR 101H3.

<sup>4</sup> The Humanities Elective courses which satisfy General Education Outcome 3.2 include: AAST 20203, ANTH 10303, ARCH 10103, CLST 10003, CLST 100H3, CLST 10103, COMM 12303, DANC 10003, ENGL 12103, GNST 20003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HUMN 112H4, HUMN 22103, LALS 20103, MRST 20103, MUSY 20003, MUSY 200H3, PHIL 20003, PHIL 200H3, PHIL 21003, PHIL 23003, THTR 10003, THTR 10103, THTR 101H3, ENGL 11103, ENGL 11203, or intermediate-level world language.

<sup>5</sup> The Social Sciences Elective courses which satisfy General Education Outcome 3.3 include: AGECE 11003, AGECE 21003, ANTH 10203, COMM 10203, ECON 21003, ECON 22003, ECON 21403, EDST 20003, HDFS 14003, HDFS 24103, HDFS 26003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HIST 20903, HUMN 111H4, HUMN 211H4, INST 28103, INST 281H3, PLSC 20003, PLSC 20103, PLSC 21003, PLSC 28103, PLSC 281H3, PSYC 20003, RESM 28503, SOCI 10103, SOCI 101H3, or SOCI 20103.

<sup>6</sup> Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See College Academic Regulations (<http://catalog.uark.edu/undergraduatecatalog/collegesandschools/jwilliamfulbrightcollegeofartsandsciences/>).

<sup>7</sup> The Social Sciences Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include: ANTH 10203, COMM 10203, HDFS 14003, HDFS 24103, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20903, HUMN 111H4, HUMN 211H4, INST 28103, INST 281H3, PLSC 20103, PLSC 28103, PLSC 281H3, RESM 28503, SOCI 10103, SOCI 101H3, or SOCI 20103.

<sup>8</sup> The Social Sciences Elective courses which satisfy General Education Outcomes 3.3 and 5.1 include: HDFS 14003, HDFS 26003, HIST 20903, HUMN 111H4, HUMN 211H4, INST 28103, INST 281H3, PLSC 28103, or PLSC 281H3.