Mathematics B.S., Option 2 (Pure)

Mathematics, B.S., Concentration 2 (Pure) Eight-Semester Degree Program

Students enrolling in the eight-semester degree plan should review the Eight-Semester Degree Completion Policy (http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy/).

State minimum core requirements may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute with general electives in consultation with their academic adviser.

First Year	Fall	Spring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013)[1]	3	
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405)	4	
Science State Minimum Core lecture with corequisite lab (Satisfies General Education Outcome 3.4)[1]	4	
Social Sciences State Minimum Core (Satisfies General Education Outcome 3.3)[1]	3	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023)[1]		3
MATH 25004 Calculus II		4
MATH 28003 Transition to Advanced Mathematics		3
Science State Minimum Core lecture with corequisite lab (Satisfies General Education Outcome 3.4)[1]		4
Year Total:	14	14

Second Year	Fall	Spring
MATH 26004 Calculus III	4	
MATH 30903 Abstract Linear Algebra	3	
U.S. History or Government State Minimum Core (Satisfies General Education Outcome 4.2)[1]	3	
Fine Arts State Minimum Core (Satisfies General Education Outcome 3.1)[1]	3	
General elective or coursework, as needed	3	
MATH 25804 Elementary Differential Equations		4
MATH or STAT Elective numbered 30000 or higher		3
CSCE 20004 Programming Foundations I		4
General elective or coursework, as needed[1]		4
Year Total:	16	15

Third Year	Fall	Spring
MATH 31103 Introduction to Abstract Algebra I	3	
MATH 32003 Number Theory or MATH 41103 Introduction to Abstract Algebra II or MATH 45003 Differential Geometry or MATH 45203 Advanced Calculus II	3	
Humanities State Minimum Core (Satisfies General Education Outcomes 3.2 and 4.1) [1]	3	
General Electives or coursework, as needed[1]	6	
MATH 32003 Number Theory or MATH 41103 Introduction to Abstract Algebra II or MATH 45003 Differential Geometry or MATH 45203 Advanced Calculus II		3
MATH or STAT Elective numbered 30000 or higher		3
Social Sciences State Minimum Core (Select a course which satisfies General Education Outcomes 3.3 and 4.1)[1]		3
General Electives or coursework, as needed[1]		6
Year Total:	15	15

Fourth Year	Fall	Spring
MATH 44403 Complex Variables	3	
MATH 45103 Advanced Calculus I	3	
MATH 32003 Number Theory	3	
Social Sciences State Minimum Core (Select a course which satisfies General Education Outcomes 3.3 and 5.1) [1]	3	
Humanities State Minimum Core (Satisfies General Education Outcomes 3.2 and 4.1) [1]	3	
MATH 49303 Mathematics Major Seminar		3
MATH 32003 Number Theory or MATH 41103 Introduction to Abstract Algebra II or MATH 45003 Differential Geometry or MATH 45203 Advanced Calculus II		3
General Electives or coursework, as needed to meet 120-hour requirement[1]		10
Year Total:	15	16

Total Units in Sequence:	**120**

[1] Students must complete the State Minimum Core (https://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/) and the requirements of their major(s) as outlined in the Catalog of Studies. These courses also fulfill many, if not all, of the General Education Requirements (https://nam11.safelinks.protection.outlook.com/?url=http%3A%2F%2Fcatalog.uark.edu%2Fundergraduatecatalog%2Fgened%2Fgeneraleducation%2F&data=04%7C01%7Crcc003%40uark.edu%7C92f936f375f845bf930708d8e3ec5fa1%7C79c742c4e61c4fa5be89a3cb566a8%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWw%7C1000&sdata=r35av68n3oEQW9FslIqBgmbsTnUENpJF7EoP4AD4Bks%3D&reserved=0). Please visit these pages in the links provided and consult with your academic advisor when making course selections to fulfill these requirements.