Mathematics B.S. Option 1 (Applied)

Mathematics, B.S., Concentration 1 (Applied) 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	Units	
	Fall	Spring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013)[1]	3	
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405)[1]	4	
U.S. History or Government State Minimum Core (Satisfies General Education Outcome 4.2) [1]	3	
Social Sciences State Minimum Core (Satisfies General Education Outcome 3.3)[1]	3	
General elective or coursework, as needed	3	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023)[1]		3
MATH 25004 Calculus II[1]		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:	16	14

Second Year	Units	
	Fall	Spring
MATH 26004 Calculus III	4	
CSCE 20004 Programming Foundations I	4	
Social Sciences State Minimum Core (Satisfies General Education Outcomes 3.3 and 4.1)[1]	3	
Science State Minimum Core lecture with corequisite lab (Satisfies General Education Outcome 3.4)[1]	4	
MATH 25804 Elementary Differential Equations		4
MATH 30903 Abstract Linear Algebra		3
Social Sciences State Core (Satisfies General Education Outcomes 3.3 and 5.1)[1]		3
Fine Arts State Minimum Core (Satisfies General Education Outcome 3.1)1[1]		3
General Elective or coursework, as needed[1]		3
Year Total:	15	16

Third Year	Units	
	Fall	Spring
MATH 31103 Introduction to Abstract Algebra I	3	
STAT 30133 Introduction to Probability	3	
MATH 44203 Introduction to Partial Differential Equations	3	
General Electives or coursework, as needed[1]	6	
MATH 43503 Numerical Linear Algebra		3
MATH or STAT Electives numbered 30000 or higher, or CSCE 41303		3
Humanities State Minimum Core (Satisfies General Education Outcomes 3.2 and 4.1) [1]		3
General Electives or coursework, as needed[1]		6
Year Total:	15	15

Fourth Year	Units	
	Fall	Spring
MATH 45103 Advanced Calculus I	3	
MATH 43603 Numerical Analysis	3	
MATH or STAT Electives numbered 30000 or higher, or CSCE 41303	3	
General Electives or coursework, as needed[1]	6	
MATH 49303 Mathematics Major Seminar		3
General Electives or coursework, as needed to complete 120 degree credit hours[1]		11
Year Total:	15	14

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 adviser when making course selections to fulfill these requirements.