

**Fayetteville State University Bachelor of Science in Mathematics**  
**Four-Year Degree Plan**

Catalog: 2016-2017

Last Update: 5/29/2017

With advisor approval, some courses listed below may be taken in an alternate semester and order. Courses that fulfill requirements are on the reverse side of this Plan. The advisor and student must consider prior credit, prerequisites, course availability, other program requirements, and student needs in developing the individual plan. Consult the appropriate Catalog for more information.

Course/Requirement	Cr	Prereq	Notes	Course/Requirement	Cr	Prereq	Notes
<b>Year 1 Term 1</b>				<b>Year 1 Term 2</b>			
UNIV 101, Freshman Seminar I	1	No	1	UNIV 102, Freshman Seminar II	1	No	1
Core Transitional Life Skills	2	No		BADM 215 Or SPEE 200	3	Yes	
ENGL 110, English Composition I	3	No		ENGL 120, English Composition II	3	Yes	
PHIL 110 Or PHIL 220	3	No	2	Core Social Science	3	Check	
Core Humanities Creative Arts	3	Check		MATH 142, Calculus with Analytic Geometry	4	Yes	
MATH 131, Algebra and Trigonometry	3	Yes	3	MATH 150, Discrete Mathematics	3	Yes	
<b>Term Total</b>	<b>15</b>			<b>Term Total</b>	<b>17</b>		
<b>Year 2 Term 1</b>				<b>Year 2 Term 2</b>			
Core Global Literacy	3	Check	5	Core Natural Science	4	Yes	4
Core Natural Science	4	Yes	4	CSC 120, Intro Programming Methodology	3	Yes	
CSC 105, Intro Computer Tech Majors	3	No		MATH 242, Calculus w/ Anal Geom III	4	Yes	
MATH 241, Calculus with Anal Geometry II	4	Yes		MATH 251, Linear Algebra	3	Yes	
MATH 262, Modern Geometry	3	Yes		MATH 260, Foundations of Mathematics	3	Yes	
<b>Term Total</b>	<b>17</b>			<b>Term Total</b>	<b>17</b>		
<b>Year 3 Term 1</b>				<b>Year 3 Term 2</b>			
Core Ethics Civic Engagement	3	Check	2	CSC 202 Or CSC 204	3	Yes	
CSC 130, Program Design & Implement	3	Yes		MATH 312, History of Mathematics	3	Yes	
MATH 331, Differential Equations I	3	Yes		Major Elective	3	Yes	
MATH 412, Advanced Calculus	3	Yes		STAT 302, Mathematical Statistics	3	Yes	
STAT 301, Introduction to Probability	3	Yes		<b>Term Total</b>	<b>12</b>		
<b>Term Total</b>	<b>15</b>						
<b>Year 4 Term 1</b>				<b>Year 4 Term 2</b>			
Restricted Elective	3	Yes		Restricted Elective	3	Yes	
Restricted Elective	3	Yes		MATH 362, Intro Mod Algebra II	3	Yes	
MATH 361, Intro Mod Algebra I	3	Yes		Major Elective	3	Yes	
Major Elective	3	Yes		Free Elective	3	Check	
Free Elective	3	Check		<b>Term Total</b>	<b>12</b>		
<b>Term Total</b>	<b>15</b>						

Prereq--Yes: Course/Requirement has prerequisite(s). No: Course/Requirement has no prerequisite. Check: Some courses satisfying requirement have prerequisites and/or courses have non-prerequisite restrictions. Check Catalog and advisor for details.

- UNIV 101-102 required for first time students; UNIV 110 for transfers with fewer than 30 transfer credits. No credit earned if waived. UNIV 111 may be required based on academic performance.
- Not required for students with 60+ transfer credits. No credit earned if waived.
- MATH 121 may be required based on profile scores. Some core courses require a one-hour lab.
- At least one natural science class must include a lab. Some majors require two lab sciences, increasing requirement to 8 credits.
- Not required for students with 30+ transfer credits from a foreign institution. No credit earned if waived.

# Degree Requirements

## Bachelor of Science in Mathematics

Catalog 2016-2017

Requirement: Courses	Pr	Cr
<b>Core</b>		
<b>Transitional UNIV:</b> (UNIV 101 And UNIV 102) Or UNIV 110 Or UNIV 111	No	2
<b>Transitional Life Skills:</b> ENTR 100 Or FINC 100 Or GEOG 110 Or HEED 112 Or PEDU 101 Or PEDU 107 Or PEDU 112 Or PEDU 120 Or PEDU 122 Or PEDU 130 Or PEDU 132 Or PEDU 140	No	2
<b>Written Communication:</b> ENGL 110	No	3
<b>Oral Communication:</b> BADM 215 Or SPEE 200	Yes	3
<b>Critical Thinking:</b> PHIL 110 Or PHIL 220	No	3
<b>Quantitative Reasoning:</b> MATH 129 And MATH 130 Or MATH 131	Yes	3
<b>Information Literacy:</b> ENGL 120	Yes	3
<b>Natural Science:</b> BIOL 150 And BIOL 160 Or CHEM 141 And CHEM 142 And CHEM 161 And CHEM 162 Or PHYS 121 And PHYS 122	Yes	8
<b>Social Science:</b> CRJC 210 Or ECON 211 Or ECON 212 Or GEOG 210 Or HIST 212 Or POLI 200 Or POLI 210 Or POLI 220 Or PSYC 210 Or SOCI 210	Check	3
<b>Humanities Creative Arts:</b> ART 210 Or COMM 220 Or ENGL 220 Or ENGL 223 Or ENGL 240 Or ENGL 250 Or ENGL 253 Or HIST 210 Or HUMN 211 Or HUMN 212 Or MUSI 210 Or MUSI 225 Or MUSI 260 Or PHIL 210 Or RELI 215 Or THEA 203	Check	3
<b>Global Literacy:</b> ANTH 210 Or ART 150 Or ART 215 Or BADM 210 Or CHIN 110 Or CHIN 120 Or ENGL 211 Or ENGL 212 Or FREN 110 Or FREN 120 Or GEOG 220 Or GLOB 200 Or HIST 110 Or HIST 120 Or HIST 270 Or PHIL 211 Or POLI 230 Or SOCI 150 Or SPAN 110 Or SPAN 112 Or SPAN 120 Or SPAN 122 Or THEA 242 Or YORU 110 Or YORU 120	Check	3
<b>Ethics Civic Engagement:</b> BADM 220 Or CRJC 203 Or EDUC 211 Or ENGL 232 Or ENGL 233 Or ETCE 101 Or ETCE 102 Or ETCE 103 Or ETCE 200 Or GEOG 270 Or HCM 200 Or HIST 211 Or PHIL 120 Or PHIL 212 Or PNUR 210 Or POLI 110 Or POLI 150 Or SWRK 220	Check	3
<b>Core Total:</b>		39
<b>Program</b>		
<b>Mathematics:</b> MATH 142 And MATH 150 And MATH 241 And MATH 242 And MATH 251 And MATH 260 And MATH 262 And MATH 312 And MATH 331 And MATH 361 And MATH 362 And MATH 412	Yes	39
<b>Major Elective:</b> Select at least 9 credits in addition to the Scientific Literacy - Natural Sciences requirement and the other course requirements from the following: BIOL 150-499 Or CHEM 141-499 Or CSC 200-499 Or MATH 300-499 Or PHYS 121-499 Or STAT 315-499 Or ECON 200-499	Yes	9
<b>Other Requirements:</b> STAT 301 And STAT 302 And CSC 105 And CSC 120 And CSC 130 And CSC 202 Or CSC 204	Yes	18
<b>Restricted Elective:</b> MATH 431 Or MATH 461 Or MATH 472 Or MATH 481 Or MATH 492	Yes	9
<b>Free Elective:</b>	Check	6
<b>Program Total:</b>		81
<b>Degree Total:</b>		120

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