

**Mathematics, BS**  
**Pure and Applied Math Concentration**  
**4-Year Pathway 2026-27 Catalog**

Fall Freshman Courses	Course or GE Title	Units	GE/Major
MATH 150*	Calculus I	4	Area 2, major
Any Approved	Any First Year Seminar with GE	3	e.g FYS + Area 3B
Any Approved	English Composition GE	3	Area 1A
Any Approved	Ethnic Studies GE	3	Areas 6
Any Approved	Arts GE	3	Area 3A
	<b>Total</b>	16	
Spring Freshman Courses	Course or GE Title	Units	GE/Major
MATH 151	Calculus 2	4	Major
CST 231	Option for Computing Course	4	Major
Any Approved	Oral Communication GE	3	Area 1C
Any Approved	Biological Science (with Lab) GE	4	Area 5B & 5C
	<b>Total</b>	15	
Fall Sophomore Courses	Course or GE Title	Units	GE/Major
MATH 230 (fall only)	Elementary Linear Algebra	3	Major
MATH 320 (fall only)	Applied Probability & Statistics	4	Major
MATH 322	Foundations of Modern Math	4	Major
Any Approved	Civics/Service Learning GE	3	Area 4B, US2&3
	<b>Total</b>	14	
Spring Sophomore Courses	Course or GE Title	Units	GE/Major
Math 240 (spring only)	Elementary Differential Equations	3	Major
MATH 250 (spring only)	Multivariate Calculus	4	Major
Any Approved	Critical Thinking GE	3	Area 1B
Any Approved	US History GE	3	Area 4A, US1
Any Approved	Physical Science GE	3	Area 5A
	<b>Total</b>	16	
Fall Junior Courses	Course or GE Title	Units	GE/Major
MATH 300 (fall only)	Major Proseminar	3	GWAR, Major
MATH 410 (fall only)	Modern Algebra I	4	Major
MATH 374 (fall only)	Mathematical Modeling: MATH elective #1**	4	Major (PAM)
MATH 361S (fall only)	Svc Learning: Math Tutors	4	UDSL, Major

	<b>Total</b>	15	
<b>Spring Junior Courses</b>	<b>Course or GE Title</b>	<b>Units</b>	<b>GE/Major</b>
<b>Elective or Minor Course</b>		4	
<b>MATH 411</b> (spring only)	Modern Algebra II	4	Major (PAM)
<b>MATH 330</b> (Spring only)	Advanced Linear Algebra	4	Major
<b>Any Approved</b>	UD Area 4 Social and Behavioral Sciences GE	3	Area 4 UDGE
<b>Any Approved</b>			
	<b>Total</b>	15	
<b>Fall Senior Courses</b>	<b>Course or GE Title</b>	<b>Units</b>	<b>GE/Major</b>
<b>MATH 326</b>	History of Math: MATH elective #2**	4	Major (PAM)
<b>STAT 310</b> (fall only)	Data Visualization	3	Area 2 UDGE
<b>Any Approved</b>	UD C with World Culture & Languages GE	3	Area 3 UDGE WCL
<b>Elective or Minor Course</b>		4	
	<b>Total</b>	14	
<b>Spring Senior Courses</b>	<b>Course or GE Title</b>	<b>Units</b>	<b>GE/Major</b>
<b>MATH 400</b>	Mathematics Capstone Seminar	4	Major
<b>MATH 325</b> (spring only)	Number Theory: Math Elective #3**	4	Major (PAM)
<b>MATH 420</b> (spring only)	Mathematical Analysis I	4	Major
<b>Elective or Minor Course</b>		3	
	<b>Total</b>	15	
	<b>Math 4-Year Pathway</b>	<b>120</b>	

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**4-Year Pathway 2025/26 - 2029/30**

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	Any First Year Seminar with GE	3	e.g FYS + Area 3B
	English Composition GE	3	Area 1A
	Ethnic Studies GE	3	Areas 6
	Arts GE	3	Area 3A
	<b>Total</b>	16	
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<b>MATH 151</b>	Calculus 2	4	Major
<b>CST 231</b>	Option for Computing Course	4	Major
	Oral Communication GE	3	Area 1C
	Biological Science (with Lab) GE	4	Area 5B & 5C
	<b>Total</b>	15	
Fall Sophomore Courses	Course or GE Title	Units	GE/Major
<b>MATH 230</b> (fall only)	Elementary Linear Algebra	3	Major
<b>MATH 320</b> (fall only)	Applied Probability & Statistics	4	Major
<b>MATH 322</b>	Foundations of Modern Math	4	Major
	Civics/Service Learning GE	3	Area 4B, US2&3
	<b>Total</b>	14	
Spring Sophomore Courses	Course or GE Title	Units	GE/Major
<b>Math 240</b> (spring only)	Elementary Differential Equations	3	Major
<b>MATH 250</b> (spring only)	Multivariate Calculus	4	Major
	Critical Thinking GE	3	Area 1B
	US History GE	3	Area 4A, US1
	Physical Science GE	3	Area 5A
	<b>Total</b>	16	
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<b>MATH 410</b> (fall only)	Modern Algebra I	4	Major
<b>MATH 374</b> (fall only)	Mathematical Modeling: MATH elective #1**	4	Major (PAM)
<b>MATH 361S</b> (fall only)	Svc Learning: Math Tutors	4	UDSL, Major
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<b>MATH 420</b> (spring only)	Mathematical Analysis I	4	Major
<b>MATH 411</b> (spring only)	Modern Algebra II	4	Major (PAM)
<b>MATH 330</b> (Spring only)	Advanced Linear Algebra	4	Major

	UD Area 4 Social and Behavioral Sciences GE	3	Area 4 UDGE
<b>Elective or Minor Course</b>		4	
	<b>Total</b>	15	
<b>Fall Senior Courses</b>	<b>Course or GE Title</b>	<b>Units</b>	<b>GE/Major</b>
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	UD C with World Culture & Languages GE	3	Area 3 UDGE WCL
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