

I= Introduced  
R= Reinforced  
M= Mastered

# Program Learning Outcomes

Program Name: Mathematics (B.S.)

Date: 5/1/2020  
Updated: 1/13/2026

Program Learning Outcomes		Courses Mapped to Outcomes						
		131: Calculus I	132: Calculus 2	243: Linear Algebra and Differential Equations	233: Multivariable Calculus	280: Bridge to Higher Mathematics	331: Real Analysis I	341: Algebraic Structures I
<b>1</b>	Proficiency in Algebra	I	I	R	R	R		M
<b>2</b>	Proficiency in Analysis	I	I	R	R	R	M	
<b>3</b>	Mathematical Writing	I	I	R	R	R	M	M R
<b>4</b>	Problem Solving and Critical Thinking	I	I	R	R	R	M	M R

# Program Learning Outcomes: Assessment Tools

Program Name: Mathematics (B.S.)

Date: 5/1/2020  
Updated: 1/13/2026

Program Learning Outcomes  Knowledge, skill, or behavior students can demonstrate upon program completion		Measurement Tool	Timeline/Frequency of Assessment	Target	Review
1	Proficiency in Algebra	Common Final Exam Question in 243 Common Final Exam Question in 341	Instructor applied departmental rubric each semester. Data is submitted each semester for each course by instructor.	Departmental rubric for each question will be developed. Target is that 80% of BS majors will get 3+ out of 4 in Math 341.	Results reviewed every two years at a department meeting in the fall.
2	Proficiency in Analysis	Common Final Exam Question in 132 Common Final Exam Question in 331	Instructor applied departmental rubric each semester. Data is submitted each semester for each course by instructor.	Departmental rubric for each question will be developed. Target is that 80% of BS majors will get 3+ out of 4 in Math 331.	Results reviewed every two years at a department meeting in the fall.
3	Mathematical Writing	Common Writing Assignment in 280 Common Writing Assignments in 341	Instructor applied departmental rubric each semester. Data is submitted each semester for each course by instructor.	Departmental rubric for each question will be developed. Target is that 80% of BS majors will get 3+ out of 4 in Math 341.	Results reviewed every two years at a department meeting in the fall.
4	Problem Solving and Critical Thinking	Common Assignment in Math 280 Common Assignment in Math 331	Instructor applied departmental rubric each semester. Data is submitted each semester for each course by instructor.	Departmental rubric for each question will be developed. Target is that 80% of BS majors will get 3+ out of 4 in Math 331.	Results reviewed every two years at a department meeting in the fall.