



ACADEMIC MAP TO B.S. IN MATHEMATICS HEALTHCARE INFORMATICS CONCENTRATION

2026-2027

START HERE

YEAR 1	SEMESTER 1		Milestones	Grade	Credits	Minimum Grade
	MATH 1010 – Introduction to Mathematics	∞			1	
	MATH 2100 – Analytical Geometry and Calculus I	∞			5	
	ENGL 1010 – Composition and Rhetoric I				3	
	CIS 1015 – Introduction to Computer Information Systems				3	
	FA 1040 – Exploring the Arts				3	
	UNIV 1000 – The University Experience				1	

Semester Credits _____

SEMESTER 2		Milestones	Grade	Credits	Minimum Grade
MATH 2110 – Analytical Geometry and Calculus II	∞			5	
ENGL 1020 – Composition and Rhetoric II				3	
BIOL 1010 – Biological Principles I				3	
BIOL 1011 – Biological Principles Laboratory I				1	
CIS 1030 – Introduction to Software Development				3	

Semester Credits _____

Total Credits _____

YEAR 2	SEMESTER 1		Milestones	Grade	Credits	Minimum Grade
	MATH 2080 – Fundamentals of Proof	∞			3	
	MATH 3130 – Analytical Geometry and Calculus III	∞			3	
	CSC 1060 – Program Design I	∞			3	
	CSC 1061 – Program Design I Lab	∞			1	
	CIS 2980 – Database Systems				3	
	ENGL 2110 – Introduction to Literature				3	

Semester Credits _____

Total Credits _____

SEMESTER 2		Milestones	Grade	Credits	Minimum Grade
MATH 3090 – Linear Algebra I	∞			4	
MATH 3160 – Ordinary Differential Equations				3	
CSC 2060 – Program Design II	∞			3	
CIS 4000 – Advanced Database Systems				3	
COMM 1010 – Oral Communication				3	

Semester Credits _____

Total Credits _____

YEAR 3	SEMESTER 1		Milestones	Grade	Credits	Minimum Grade
	MATH 3100 – Modern Algebra I	∞			3	
	MATH 3150 – Theory of Probability				3	
	CIS 3300 – Object Oriented Programming				3	
	ANTH 1510, 2020; ECON 2000; GEOG 1010, 1020; or PSCI 2010				3	
	STEM Elective	∞			3	

Semester Credits _____

Total Credits _____

SEMESTER 2		Milestones	Grade	Credits	Minimum Grade
MATH 4940 – Introduction to Mathematical Research	∞			2	
MATH (3000-4000)	∞			3	
CIS 2100 – Software Development				3	
PHYS 2510 – General Analytical Physics I				3	
PHYS 2511 – General Analytical Physics I Laboratory				1	
Academic Elective				1	

Semester Credits _____

Total Credits _____

YEAR 4	SEMESTER 1		Milestones	Grade	Credits	Minimum Grade
	MATH 4950 – Mathematics – A Capstone Course	∞			4	
	STAT 4270 – Mathematical Statistics I				3	
	MATH 4900 – Field Experience in Mathematics				3	
	CIS 3900 – Systems Analysis and Development				3	
	CIS 2100 – Data Structures				3	

Semester Credits _____

Total Credits _____

SEMESTER 2		Milestones	Grade	Credits	Minimum Grade
MATH (3000-4000)	∞			3	
Science Elective	∞			3	
Science Elective Lab	∞			1	
HIST 1010, 1020, 2010, or 2020				3	
EPSY 2020; PSYC 1010, 2050; or SOC 1010				3	

Semester Credits _____

Total Credits **120**

Must maintain a 2.0 GPA within Major and Concentration to graduate.

YOU'VE FINISHED!

- University Core Requirement
- Mathematics Major Requirement
- MILESTONE

- Concentration Requirement
- Mathematics Major Elective
- Academic Elective



GRADUATION REQUIREMENTS

Major Requirements =45 | University Core/Support = 75 | Total Credits = 120

Courses taken outside of a student's degree program are not eligible for Title IV federal financial aid (grants and loans). However, elective courses are eligible for Title IV aid if they are required and included in the student's program of study. Once a student has completed all required elective credits, any additional elective courses taken beyond the program's requirements will not be eligible for Title IV funding.

START HERE

YEAR 1	SEMESTER 1				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

SEMESTER 2				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 2	SEMESTER 1				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 3	SEMESTER 1				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 4	SEMESTER 1				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2				Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YOU'VE FINISHED!



MILESTONE



Major Electives

Academic Electives



GRADUATION REQUIREMENTS

Major Requirements = _____ | University Core/Support = _____ | Total Credits = _____

Courses taken outside of a student's degree program are not eligible for Title IV federal financial aid (grants and loans). However, elective courses are eligible for Title IV aid if they are required and included in the student's program of study. Once a student has completed all required elective credits, any additional elective courses taken beyond the program's requirements will not be eligible for Title IV funding.