



NEVADA SYSTEM OF
HIGHER EDUCATION

Math Pathways and Nursing

For Presentation to the Board of Regents'
Health Sciences Committee

December 16, 2024

Today's Presentation

- NSHE's Launch Years Initiative Task Force
- Current Bachelor of Science in Nursing (BSN) math pathways at the universities
- Preliminary findings from systemwide survey
- Dana Center Sample Math Pathways
- Next Steps

Launch Years Initiative

- Systemwide Task Force working in conjunction with the Charles A. Dana Center at the University of Texas at Austin
 - Current teaching faculty from each NSHE institution and a representative from the Nevada Department of Education, facilitated by NSHE Academic & Student Affairs
- Current focus is on streamlining math pathways for all NSHE institutions
- Academic disciplines at each campus surveyed to determine the math concepts that students need to succeed in the major field of study
- Recommendations will be published in Spring 2025

Current BSN Math Requirements

- UNLV: Gateway Math -> College Algebra
 - Chemistry Course -> Introduction to Chemistry
 - Statistics Course -> Choice from a variety of courses
- UNR: Gateway Math -> Precalculus
 - Chemistry Course -> General Chemistry
 - Statistics Course -> Choice from a variety of courses
- NSU: Gateway Math -> Fundamentals of College Mathematics
 - Chemistry Course -> Introduction to Chemistry
 - Statistics Course -> Biostatistics for Nursing

Preliminary Findings from Systemwide Survey

- In general, feedback indicates a need for a statistics gateway course pathway in addition to the existing Quantitative Reasoning (Math 120), College Algebra (Math 124), and Precalculus I (Math 126)
- For nursing, responses indicated that a Statistics gateway course would work best for students in the program
- Survey results and forthcoming recommendations from the task force will be used to engender campus discussions about better aligning gateway math requirements with fields of study

Dana Center Sample Math Pathways

Quantitative Reasoning	Precalculus	Statistics
Communication	Architecture	Criminal Justice
Design	Biology	Health Promotion
English	Chemistry	Kinesiology
Hospitality	Engineering	Nursing
Philosophy	Physics	Psychology

For more information, see <https://dcmathpathways.org/resources/sample-math-pathways-list>

Next Steps

- Convene cross-institutional academic discipline working groups
- Review NSHE academic discipline survey results
- Investigate the most appropriate sequencing for nursing and associated prerequisites
- Consider Dana Center [Math and Statistics Education for Nurses Convening Recommendations](#)



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Questions?

