



Chemistry for Nursing and Health Care Science (CHEM 1201/1211)

Theme

Integrate the process of critical inquiry with nursing and natural sciences to make evidenced-based decisions to improve the care of individuals, families, populations, and communities.

Math

Math is an important component in healthcare. Focus on algebra skills:

- Dosage, moles, and stoichiometry calculations – unit conversions
- Gas and concentration calculations – solve for an unknown variable
- pH – converting between linear and logarithmic scales

Problem-Solving Skills

Learn how to identify pertinent information to solve an issue – calculation, chemical reaction, cause-effect, etc.

Use road maps to solve problems

Identify connections between content and applications

Skills Learned

Technology

- Canvas, Office 365, Canva, PDF editor, Online learning platform (ALEKS)

Communication

- Teamwork, Written, Spoken

Chemical safety

Applications

Patient and consumer equity

Sustainability in chemistry, healthcare, and industry

Student Success

Preparation for TEAS exam

Time to mature as a collegiate scholar and adjust to collegiate life

“How can we help our health science professionals acknowledge and integrate the variety of disciplines and factors in the determinants of health?”

Social Determinants of Health:

- Education Access and Quality – How can you bridge chemistry, healthcare, and sustainability?
- Economic Stability – Ask where does your patient live and what resources can they access?
- Neighborhood and Built Environment – Determine which chemicals your patients are exposed to.
- Healthcare Access and Quality – You are the NEXUS between the information and the patient.