



Principles of Nursing Science

PEIMS Code: N1302109

Abbreviation: NURSSCI

- x In accordance with Texas Administrative Code (TAC) §74.27, school districts must provide instruction in all essential knowledge and skills identified in this innovative course.
- x Innovative courses may only satisfy elective credit toward graduation requirements.
- x Please refer to [TAC §74.13](#)

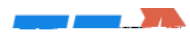
_____ for guidance on endorsements.

Course Description:

The Principles of Nursing Science course introduces students to basic principles of the profession of nursing. The goals/student outcomes for the course include knowledge of the history of nursing, an introduction to nursing theory, professionalism (teamwork, communication, conflict resolution), legal/ethical issues in nursing, infection control, safety, and customer (patient) satisfaction. Skills learned include vital signs and how to document on a graphic record, patient positioning/transferring, bed-making, feeding, and personal protective equipment (PPE).

Essential Knowledge and Skills:

- (a) General Requirements. This course is recommended for students in grades 9-10. Students shall be awarded one credit for successful completion of this course.
- (b) Introduction.
 - (1) Career and Technical Education instruction provides content aligned with challenging academic standards and relevant technical knowl (uc)-1.c0.Tcalevant8t6



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- (B) demonstrate how to collect medical information from patients, family members, or other medical professionals;
 - (C) explain technical medical information to patients;
 - (D) list the steps to recording and interpreting technical health or medical documents; and
 - (E) describe entering patient or treatment data into medical software.
- (4) The student summarizes the history of nursing. The student is expected to:
- (A) discuss historical factors and nursing leaders that influenced the development of nursing;
 - (B) review the historical nursing practices and issues affecting the development and practice of nursing;
 - (C) describe the different types of educational programs for nurses; and
 - (D) describe the development of the four major areas of nursing science, including practice, administration, education, and research.
- (5) The student describes the components of infection control. The student is expected to:
- (A) identify the components of the chain of infection and analyze strategies to break the chain of infection;
 - (B) identify standard and transmission-based precautions, such as the use of personal protective equipment (PPE);
 - (C) identify characteristics, concepts, and processes related to the transmission of common communicable diseases including individual risk factors and preventative health factors;
 - (D) describe how to implement sanitation practices in healthcare settings; and
 - (E) demonstrate appropriate hand-washing technique and how to properly don and doff PPE.
- (6) The student demonstrates



- (8) The student integrates nursing theory into nursing practice. The student is expected to:
- (A) discuss evidence-based clinical practice guidelines;
 - (B) discuss nursing philosophy and theory and how each guides nursing practice;
 - (C) identify the components of nursing process and apply them to a patient's plan of care; and

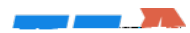
2020.



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“Hand Hygiene Interactive Education.” Centers for Disease Control and Prevention. Department of Health and Human Services. Accessed July 16, 2020.
<https://www.cdc.gov/handhygiene/training/interactiveEducation/>.

“How Infections Spread



Suggested methods for evaluating student outcomes:

1. Weekly Reflective Journal
 - x instructor to provide reflection questions based on content taught that week
2. Concept Mapping
 - x nursing scope of practice / responsibility
 - x history of nursing
 - x infection prevention & control
3. Role Play / Simulation
 - x facilitate demonstration of appropriate communication, professionalism, conflict resolution, and customer service
4. Examination
 - x combination of multiple choice, fill in, labelling, math, and defining of key terms related to nursing
5. Skills validation / check off
 - x Vital Signs
 - x Documentation on graphic record
 - x Patient positioning/transferring
 - x Bed-making
 - x Feeding