

# PTEC-97: NURSING SCIENCE

## Effective Term

Fall 2025

## CC Approval

03/07/2025

## AS Approval

03/13/2025

## BOT Approval

03/20/2025

## COCI Approval

05/15/2025

## SECTION A - Course Data Elements

### CB04 Credit Status

Credit - Degree Applicable

### Discipline

| Minimum Qualifications  | And/Or |
|---|--------|
| Psychiatric Technician (Any Degree and Professional Experience) |        |

### Subject Code

PTEC - Psychiatric Technician

### Course Number

97

### Department

Psychiatric Technician (PTEC)

### Division

Health Occupations (HEOC)

### Full Course Title

Nursing Science

### Short Title

Nursing Science

### CB03 TOP Code

1239.00 - \*Psychiatric Technician

### CB08 Basic Skills Status

NBS - Not Basic Skills

### CB09 SAM Code

B - Advanced Occupational

### Rationale

Needed to remove prerequisites of Math and English placement test as a requirement to enter into program. AB 705 ended this requirement for community colleges.

## SECTION B - Course Description

### Catalog Course Description

First trimester of three designed to prepare the student for licensure as a Psychiatric Technician in the State of California. Nursing Science will present the principles of mental and physical health, the maintenance of health, anatomy and physiology, and an

understanding of disease and its treatment. Students will develop the ability to perform basic care activities, with learning experiences in the care of children, adults, and aged patients with medical/surgical conditions.

## SECTION C - Conditions on Enrollment

### Open Entry/Open Exit

No

### Repeatability

Not Repeatable

### Grading Options

Letter Grade Only

### Allow Audit

Yes

## Requisites

### Limitation on Enrollment

1. CNA-Current Certified Nursing Assistant
2. High School Diploma or Equivalent
3. 18 years or older

## SECTION D - Course Standards

### Is this course variable unit?

No

### Units

16.5

### Lecture Hours

192

### Lab Hours

318

### Outside of Class Hours

384

### Total Contact Hours

510

### Total Student Hours

894

## Distance Education Approval

### Is this course offered through Distance Education?

No

## SECTION E - Course Content

### Student Learning Outcomes

**Upon satisfactory completion of the course, students will be able to:**

1. Accurately perform and document basic nursing skills, basic physical and mental assessments and interventions while prioritizing patient care.
2. Ethically advocate for geriatric patients with various medical complexities in all settings, assuring patient rights, privacy, dignity, and confidentiality.
3. Develop leadership and supervision skills by applying leadership theories in the clinical site.

4. Communicate effectively (written and verbally) with the populations served, community members, classmates, instructors, and the interdisciplinary team.

### Course Objectives

| Upon satisfactory completion of the course, students will be able to: |  |
|---|--|
| 1.  | Discuss the role of the Psychiatric Technician.  |
| 2.  | Discuss the principles and applications of professionalism, ethics, and law as related to the Psychiatric Technician.  |
| 3.  | Relate the concept of holistic care to the biological, psychological, sociological, cultural, and spiritual factors that affect an individual's response to illness. |
| 4.  | Discuss and demonstrate the importance of accurate communication and documentation in the care of the patient.   |
| 5.  | Apply the nursing process to the care of the geriatric, pediatric, and medical-surgical patient.   |
| 6.  | Identify nutrients regulating body processes.  |
| 7.  | Identify special nutritional needs of hospitalized patients.   |
| 8.  | Identify the principles of infection control and standard precautions.   |
| 9.  | Differentiate between the principles of fluid and electrolyte balance and acid/base balance.   |
| 10.   | Demonstrate safe and accurate administration of oral and parenteral medications.   |
| 11.   | Calculate medication dosages.  |
| 12.   | Identify appropriate pharmacological treatments used in major illnesses presented in class and exhibited patients.   |
| 13.   | Discuss nursing implications, side effects and patient teaching for medications administered.  |
| 14.   | Identify major structures and functions of organs in each system.  |
| 15.   | Identify common illnesses related to each system of the body.  |
| 16.   | Identify and apply nursing interventions related to the care of patients with a variety of illnesses.  |
| 17.   | Develop and implement individualized teaching plans that address the needs of patients with chronic illness.   |

### Course Content

1. Basic Human Needs
2. Vital Signs
3. Standard Precautions
4. Communicable Disease, Including HIV
5. Asepsis, Isolation
6. Medication Administration
7. Documentation
8. Daily Care Skills: Bathing, Bedmaking, Oral Care, Body Mechanics, Shaving, etc.
9. Skill Competencies Related to Specific Illnesses
10. Introduction to Disease Processes
11. Care of the Geriatric Patient
12. Care of the Dying Patient Hospice
13. Care of the Cancer Patient
14. Care of the Surgical Patient
15. Care of the Child
16. Therapeutic Relationships, Communication Skills
17. Basic Nutritional Needs
18. Anatomy and Physiology, Common Disorders & Nursing Care
  - a. Circulatory System
  - b. Muscular/Skeletal System
  - c. Urinary System
  - d. Endocrine System
  - e. Integumentary System
  - f. Nervous System
  - g. Gastrointestinal System
  - h. Reproductive System
  - i. Pharmacology

## Methods of Instruction

### Methods of Instruction

| Types                         | Examples of learning activities   |
|-------------------------------|---|
| Discussion                    | Scenario and case study discussion at close of each clinical experience done in small groups.   |
| Field Experience              | Clinical experience at an off-campus facility.  |
| Lecture                       | Instructor relays information on a given subject  |
| Observation and Demonstration | Instructor demonstrates a nursing skill practice - instructors assist students to practice nursing skill return demonstration - students demonstrate skill for instructor |
| Group Work                    | Students collaborate in theory to address and understand various patient case studies, disease processes, and pharmacology.   |

## Methods of Evaluation

### Methods of Evaluation

| Types          | Examples of classroom assessments   |
|----------------|---|
| Exams/Tests    | Mid Term, Final Exam and regularly assigned assessment exams pertaining to course content   |
| Quizzes        | Weekly quizzes assigned via an educational platform   |
| Simulation     | Virtual simulation activities through our online learning platform.   |
| Projects       | Collaborative work with case studies and presenting to class.   |
| Lab Activities | Skills performance.   |
| Other          | 1. Objective testing e.g., Identify the critical elements of the isolation procedures; Discuss the pathophysiology of a Myocardial Infarction<br>2. Observation of Clinical Practice e.g., students will accurately take vital signs; Perform Range-of-Motion for a stroke patient.<br>3. Individual Interviews and Counseling e.g., meet with instructors on a weekly basis; Interview a patient for the purpose of taking a history.<br>4. Counseling and Consultation with Agency Personnel e.g., staff will give input to student evaluation; student will give shift report to oncoming personnel. |

## Assignments

### Reading Assignments

Textbook  
Journal Articles

### Writing Assignments

Written Assignments - completion of modular objectives for class discussion and application to patient care.

### Other Assignments

Projects Reports  
Patient education related to patients diagnosed disease/s  
Documentation of nursing care in the Patient's Record

## SECTION F - Textbooks and Instructional Materials

### Material Type

Textbook

### Author

Cooper, K. Gosnell, K.

### Title

Foundations and Adult Health Nursing

### Edition/Version

9th

**Publisher**

Elsevier/Mosby

**Year**

2023

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**Material Type**

Textbook

**Author**

Grodner, M. Escott-Stump, S. and Dorner, S.

**Title**

Nutritional Foundations and Clinical Applications

**Edition/Version**

8th

**Publisher**

Elsevier

**Year**

2023

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**Material Type**

Textbook

**Author**

Visovsky, Zambroski, Hosler

**Title**

Introduction to Clinical Pharmacology

**Edition/Version**

11th

**Publisher**

Elsevier

**Year**

2025

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**Material Type**

Textbook

**Author**

Solomon, E.

**Title**

Introduction to Human Anatomy and Physiology

**Edition/Version**

4th

**Publisher**

Elsevier

**Year**

2016

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**Material Type**

Textbook

**Author**

Skidmore-Roth, L.

**Title**

Mosby's Drug Guide for Nursing

**Edition/Version**

16th

**Publisher**

Elsevier

**Year**

2026

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**Material Type**

Other required materials/supplies

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**Course Codes (Admin Only)**

**ASSIST Update**

No

**CB10 Cooperative Work Experience Status**

N - Is Not Part of a Cooperative Work Experience Education Program

**CB11 Course Classification Status**

Y - Credit Course

**CB13 Special Class Status**

N - The Course is Not an Approved Special Class

**CB23 Funding Agency Category**

Y - Not Applicable (Funding Not Used)

**CB24 Program Course Status**

Program Applicable

**Allow Pass/No Pass**

No

**Only Pass/No Pass**

No