

**Course Outline**

**COURSE:** AH 16D                      **DIVISION:** 50                      **ALSO LISTED AS:** AH 16

**TERM EFFECTIVE:** Spring 2016                      **Inactive Course: 04/13/2015**

**SHORT TITLE:** IV THERAPY/D

**LONG TITLE:** IV Therapy/Blood Withdrawal/D

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	18	Lecture:	1	18
		Lab:	0	0
		Other:	0	0
		Total:	1	18

**COURSE DESCRIPTION:**

Theoretical application and clinical techniques required for safe administration of IV therapy and withdrawal of blood for testing. (Approved by the Board of Vocational Nursing for certification in IV Therapy and Blood Withdrawal. Approved for continuing education credit BRN #00892). Previously listed as AH 16.  
**COREQUISITE:** Enrollment in AH 54 or current active LVN licensure in California. \$50.00 course materials fee payable at registration.

**PREREQUISITES:**

Completion of AH 54, as UG, with a grade of C or better., Concurrent OK

**COREQUISITES:**

**CREDIT STATUS:** D - Credit - Degree Applicable

**GRADING MODES**

L - Standard Letter Grade

**REPEATABILITY:** N - Course may not be repeated

**SCHEDULE TYPES:**

02 - Lecture and/or discussion

**STUDENT LEARNING OUTCOMES:**

1. Student will use principles of college-level mathematical concepts and methods to accurately calculate intravenous flow rates and will set the correct flow rate on actual intravenous solutions

Measure: Intravenous flow rate quizzes. Demonstration with equipment used in facilities in the clinical lab setting. Intravenous flow rate final exam (required to pass the class).

PLO: 2,3,4,5,6

ILO:

2,4,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

2. Student will explain the reason(s) for initiation of intravenous therapy, blood transfusions, blood component infusion and skin and arterial puncture

Measure: Measure: Written coursework. Lab demonstrations/simulations with classmates using actual equipment and evaluation by instructor.

PLO: 2,3,4,5,6

ILO: 1,2,3,4,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

3. Student will communicate clearly, verbally and in writing using appropriate grammar, vocabulary and word usage with peers and instructors representing a diverse population and viewpoints while initiating IV therapy in the classroom setting.

Measure: Measure: Written coursework. Classroom simulations/evaluation by instructor. Clinical performance exams. Essay questions on quizzes and exams. Interactive classroom assignments using computer software.

PLO:

ILO: 1,2,3,4,6

GE-LO:

PLO: 2,3,4,5,6

ILO: 1,2,3,4,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

4. Student will demonstrate appropriate active listening skills using techniques of therapeutic communication to verify that communication has been accurately interpreted while performing IV therapy and blood withdrawal in the classroom setting

Measure: Role play with instructor evaluation. Clinical performance evaluation.

PLO: 2,3,4,5,6

ILO: 1,2,3,4,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

5. Student will critically analyze data from textbooks, dictionaries, other reference books and the internet to apply theoretical concepts and facts related to the purpose and procedures of treatment with intravenous therapy to real life situations experienced by diverse patients.

Measure: Written coursework. Performance evaluations. Exams

PLO: 2,3,4,5,6

ILO: 2,3,4,5,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

6. Student will apply knowledge of the legal guidelines for the licensed vocational nurse practicing intravenous therapy and blood withdrawal to real life situations.

Measure: Written coursework. Performance evaluations. Exams

PLO: 2,3,4,5,6

ILO: 1,2,3,4,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

7. Students will analyze pre-written patient care plans of care and will individualize the plan for a specific patient

Measure: Written care plans. Clinical evaluations

PLO: 2,3,4,5,6

ILO: 1,2,3,4

GE-LO:

Year assessed or anticipated year of assessment: 2013

8. Student will correctly describe, recognize and troubleshoot common complications of intravenous therapy and blood withdrawal.

Measure: Clinical performance evaluation, computer simulations, exams.

PLO: 2,3,4,5,6

ILO: 1,2,3,4

GE-LO:

Year assessed or anticipated year of assessment: 2013

9. Student will safely initiate IV therapy and withdraw blood on peers.

Measure: Clinical performance evaluation(required by law to pass the class)

PLO: 2,3,4,5,6

ILO: 1,2,3,4,6

GE-LO:

Year assessed or anticipated year of assessment: 2013

## **CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS**

Inactive Course: 04/13/2015

AH 16 concurrent with AH 54 (18 hours)

Types of venipuncture

Universal precautions for infection control

Patient preparation

Selection of site

Preparation of equipment

Selection of venipuncture device

Preparation and immobilization of site

IV admixtures and additives

Bolus medications  
Hyperalimentation/lipids  
Pumps and controllers  
Safety factors  
Complications  
Documentation  
Exam

**METHODS OF INSTRUCTION:**

Lecture, skill demonstration, use of videos, computer software, IV simulator, and actual IV equipment.

**METHODS OF EVALUATION:**

This is a degree-applicable course, but substantial writing assignments are NOT appropriate, because the course primarily:

Involves skill demonstrations or problem solving

The problem-solving assignments required:

Homework problems

Quizzes

Exams

Other: Minimum 85% competency level pass/fail only

The types of skill demonstrations required:

Class performance

Performance exams

The types of objective examinations used in the course:

Multiple choice

True/false

Matching items

Other: Calculations

Other category:

None

The basis for assigning students grades in the course:

Writing assignments: 0% - 0%

Problem-solving demonstrations: 15% - 30%

Skill demonstrations: 15% - 80%

Objective examinations: 60% - 90%

Other methods of evaluation: 0% - 0%

**REPRESENTATIVE TEXTBOOKS:**

Required:

Phillips, Manual of IV Therapeutics, Davis, 2010, or other appropriate college level text.

Reading level of text, Grade: 17th grade Verified by: KBedell

Other textbooks or materials to be purchased by the student: Kee, Fluids and Electrolytes, Delmar, 2010, Gavilan College Faculty, IV Therapy/Blood Withdrawal Handouts, 2011

**ARTICULATION and CERTIFICATE INFORMATION**

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201270

UC TRANSFER:

Not Transferable

**SUPPLEMENTAL DATA:**

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 2 Stand-alone

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: AH

CSU Crosswalk Course Number: 16D

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: B

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000534622

Sports/Physical Education Course: N

Taxonomy of Program: 123020