GAVILAN COLLEGE
5055 Santa Teresa Blvd
Gilroy, CA 95023

Course Outline

COURSE: AH 16 DIVISION: 40 ALSO LISTED AS:

TERM EFFECTIVE: Spring 2016 CURRICULUM APPROVAL DATE: 04/13/2015

SHORT TITLE: IV THERAPY

LONG TITLE: Intravenous Therapy, Blood Withdrawal

Units	Number of Weeks	Type	Contact Hours/Week	Total Contact Hours/Units
2	18	Lecture:	1.5	27 / 1.5 Units of Lecture
		Lab:	1.5	27 / .5 Units of Lab
		Other:	0	0
		Total:	3	54

Out of Class Hrs:	54.00
Total Learning Hrs:	108.00

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). PREREQUISITE: Completion of AH 54 or equivalent with a grade of C or better or current active LVN licensure in California. $150.00 course materials fee payable at registration.

PREREQUISITES:

Completion of AH 54 or equivalent with a grade of C or better or current active LVN licensure in California

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

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

04B - Laboratory - LEH 0.75

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: 5

ILO: 2,4,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

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

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

PLO: 5

ILO: 1,2,3,4,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

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

PLO: 5

ILO: 1,2,3,4,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

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: 5

ILO: 1,2,3,4,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

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: 5

ILO: 2,3,4,5,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

STUDENT LEARNING OUTCOMES(CONTINUED):

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: Quizzes, exams

PLO: 5

ILO: 1,2,3,4,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2015

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: 5

ILO: 1,2,3,4

GE-LO: NA

Year assessed or anticipated year of assessment: Next offered Spring 2016

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

Measure: Clinical performance evaluation, computer simulations, exams.

PLO: 5

ILO: 1,2,3,4

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

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

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

PLO: 5

ILO: 1,2,3,4,6

GE-LO: N/A

Year assessed or anticipated year of assessment: Next offered Spring 2016

PROGRAM LEARNING OUTCOMES:

Demonstrate ability to practice safely

COURSE CONTENT:
Curriculum Approval Date: 04/13/2015
Reactivate course:
Legal aspects as set forth in California Business and Professions Code Scope of practice regulations
Universal precautions for infection control
Indications for IV therapy
Types of delivery systems
Types of intravenous fluid
Observation of patient
Regulating flow rate
Assessment of local and systemic reactions
Documentation
Exam
Blood Withdrawal
Universal precautions for infection control
Methods of blood withdrawal
Selection of appropriate method
Preparation of equipment
Order of draw
Selection of site
Performing skin puncture
Safety factors
Complications
Documentation
Exam
Acid/base balance/imbalance
Electrolyte imbalance
Universal precautions for infection control
Indications for IV fluids, blood and blood products
Documentation
Exam
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:
Phillips. Manual of IV Therapeutics. FA Davis, 2014. 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:
Handbook of Fluid, Electrolyte and Acid Base Imbalances (Nursing Reference), Cengage Learning; 2009

ARTICULATION and CERTIFICATE INFORMATION

CSU TRANSFER:

Transferable CSU

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N
Classification: Y
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: B
Course Control Number: CCC000564668
Sports/Physical Education Course: N
Taxonomy of Program: 123020
CIP: 513901