

# NCBH 400: SUPPLEMENTAL INSTRUCTION: BIOLOGICAL & HEALTH SCIENCES

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2024
Units:	0
Hours:	36-360 hours laboratory total per quarter.
Degree & Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

## Description

An open-entry, open-exit course for students who seek academic support through supplemental instruction and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: AHS 52, 60A; D A 50, 51A-C, 53A-C, 56, 57, 58, 60A-B, 62A-C, 63, 71, 73, 74, 85, 88; D H 300A-B, 302, 304, 305A-D, 308, 316A-B, 318, 320A-D, 322, 326A-C; DMS 50A-B, 51A, 52A-C, 53A-C, 54A-B, 55A-B, 56A-B, 60A-F, 70A-E, 72A, 80A; EMS 50, 52, 53, 60A-B, 61A-B, 62A-B, 63A-B, 64A-B; HLTH 20, 21, 22, 23; HORT 10, 15, 21, 22, 23, 24, 25, 26, 30, 31, 40, 45, 52C, 52G-H, 54A-C, 54J-L, 55A, 60B-D, 60F-G, 60J, 80A-D, 80I, 80K, 400A-C; PHT 50, 51, 52A-B, 53, 54A-B, 55A-B, 56, 64A-B; RSPT 50A-C, 51A-C, 52, 53A-B, 54, 55A-G, 56, 57, 60C, 61A-D, 62, 63A, 65, 70A-D, 85, 86, 87, 88; R T 51A-C, 52D, 53, 53A-D, 53AL-CL, 54A-C, 55A-C, 61B, 62A-C, 63, 63A-C, 64, 65, 71, 72, 75; V T 51, 51A-F, 52A-B, 53A-C, 54A-B, 55, 56, 57L, 58L, 60, 61, 66, 70, 72, 75A-C, 81, 83, 84, 84L, 85, 86, 88A, 89, 91, 92, 93, 95.

## Course Objectives

The student will be able to:

- Use online course management system(s) to practice problem solving in Allied Health Sciences, Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography, EMR/EMT/Paramedic, Health, Environmental Horticulture & Design, Pharmacy Technician, Radiologic Technology, Respiratory Therapy, and Veterinary Technology courses.
- Identify and use appropriate computer software for mastery of course content in Allied Health Sciences, Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography, EMR/EMT/Paramedic, Health, Environmental Horticulture & Design, Pharmacy Technician, Radiologic Technology, Respiratory Therapy, and Veterinary Technology courses.
- Master use of equipment appropriate for the discipline.
- Demonstrate mastery of knowledge of basic science principles and core medicine concepts pertinent to the focus discipline.
- Use individualized instruction to enhance learning in Allied Health Sciences, Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography, EMR/EMT/Paramedic, Health, Environmental Horticulture & Design, Pharmacy Technician, Radiologic Technology, Respiratory Therapy, and Veterinary Technology courses.

## Course Content

- Use online course management system(s), for example:
  - Canvas
  - Pearson Mastering Biology, Mastering Microbiology
- Identify and use appropriate computer software, for example:
  - Generating reports using software
    - Microsoft Excel
    - Microsoft Word
  - Additional practice using software
    - Visible Body
    - Osiryx
  - Pearson Mastering Biology, Mastering Microbiology
- Master use of discipline-specific equipment, for example:
  - Microscopes
  - X-ray equipment
  - Ventilators and other respiratory therapy equipment
  - High Fidelity simulation manikins
  - EKG monitors
  - Dental hygiene instruments
  - Dental typodonts
- Use individualized instruction
  - Apply knowledge to enhance learning in Allied Health Sciences, Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography, EMR/EMT/Paramedic, Health, Environmental Horticulture & Design, Pharmacy Technician, Radiologic Technology, Respiratory Therapy, and Veterinary Technology courses
    - Individualized instruction
    - Computer research
    - Use of software
    - Use of equipment

## Lab Content

- Determining different approaches to problem solving.
- Exploring application of biological concepts.
- Applying classroom theory in a practical setting.
- Discussion of clinical cases.
- Applying classroom theory in a practical setting.

## Special Facilities and/or Equipment

- Internet access and computers with appropriate software.
- Equipment appropriate for the various disciplines.

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

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- Completion of homework problems and written assignments as assigned by course instructor
- Completion of additional problems beyond those assigned by the course instructor
- Completion of lab reports
- Ability to use appropriate equipment
- OSCEs and practicum examination
- Written quizzes and exams
- Oral case presentation
- Site visits

## **Method(s) of Instruction**

Methods of Instruction may include but are not limited to the following:

- A. Individualized instruction based on student's progress
- B. Working in groups
- C. Working on computers
- D. Working with appropriate equipment

## **Representative Text(s) and Other Materials**

Students will use textbook(s) in referring courses.

## **Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments**

- A. Homework assignments
  - 1. Problems are assigned by the course instructor
  - 2. Completion of both online and written assignments
- B. Laboratory assignments
  - 1. Problems are assigned by course instructor
  - 2. Completion of both online and written assignments
- C. Additional coursework
  - 1. Reading textbook
  - 2. Reviewing data and images for mastery

## **Discipline(s)**

Biological Sciences, Dental Technology, Emergency Medical Technologies, Health Care Ancillaries, Pharmacy Technology, Radiological Technology, Registered Veterinary Technician, Respiratory Technologies