

**Course Title:** Allied Health Assisting 3  
**Course Number:** 8417131  
**Course Credit:** 1

**Course Description:**

In this course students will perform skills representative of one to three areas of allied health care in the laboratory and clinical settings. Major areas of allied health are defined as physical therapy, radiation, EKG, laboratory and respiratory medicine, and occupational therapy. Other areas of health, medicine, dentistry, or veterinary may be included with instructor provided competencies.

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
34.0 <u>Perform skills representative of 1-3 major allied health areas in the school laboratory before beginning the clinical phase</u> —The student will be able to:		SC.912.L.14.14 SC.912.L.14.34 SC.912.L.14.36 SC.912.L.14.38 SC.912.L.14.39 SC.912.L.14.47 SC.912.L.18.11 SC.912.N.1.1 SC.912.P.11.10
34.01 Perform skills related to the body systems.		
34.02 If unlicensed clinical laboratory type skills is one of the selected allied health areas to be taught, only procedures that are exempt from clinical laboratory personnel licensure requirements will be presented and students will:		
34.02.01 Perform waived testing on blood and urine.		
34.02.02 Prepare blood slides for differential blood count.		
34.02.03 Plate microbiological specimen on appropriate media.		
34.02.04 Report urine specific gravity, color and characteristics.		
34.02.05 Perform centrifuge operation and maintenance.		
34.02.06 Name (or identify) and explain the use of the common instruments/equipment found in the clinical laboratory.	LAFS.1112.L.3.6 LAFS.1112.RI.2.4	
34.02.07 Demonstrate knowledge of specimen differentiation and procedure interference's.		
34.02.08 Perform communication skills specifically related to laboratory science.	LAFS.1112.SL.1.1b	
34.02.09 Discuss the process of performing venipunctures.		
34.02.10 Name and discuss the specialty areas within laboratory (hematology, clinical chemistry, microbiology, etc.)	LAFS.1112.SL.2.4 LAFS.1112.W.2.4	
34.02.11 Explain the criteria set forth in CLIA to classify laboratory testing as waived, moderate complexity or high complexity.	LAFS.1112.SL.2.4 LAFS.1112.W.2.4	

CTE Standards and Benchmarks		FS-M/LA	NGSSS-Sci
34.02.12	Explain the levels and qualifications for testing personnel as set forth in CLIA (complexity based) and as established by state law (licensure categories).	LAFS.1112.SL.2.4 LAFS.1112.W.2.4	
34.02.13	Practice and demonstrate how to properly and safely use a microscope.		
34.03	If unlicensed physical restorative type skills is one of the selected allied health areas to be taught, students will:		SC.912.L.14.12 SC.912.L.14.13 SC.912.L.14.14 SC.912.L.14.15 SC.912.L.14.16 SC.912.L.14.17 SC.912.L.14.18 SC.912.L.14.19 SC.912.L.14.20 SC.912.N.1.1 SC.912.P.10.4
34.03.01	Describe the functions of bones and muscles as related to the practice of physical therapy.	LAFS.1112.SL.2.6	
34.03.02	Define disability and identify types of disabilities.	LAFS.1112.SL.2.6	
34.03.03	Name and discuss the avenues of physical therapy practice.	LAFS.1112.SL.1.2	
34.03.04	Describe equipment used in physical therapy.	LAFS.1112.RI.1.1	
34.03.05	Teach crutch and walker use and care.	LAFS.1112.SL.1.1a	
34.03.06	Perform safe body mechanics and transfer	LAFS.1112.SL.2.4	
34.03.07	Demonstrate an understanding of the use of modalities (i.e. Ultrasound, heat and cold therapeutic massage, E-STEM, wound care, elastic stockings)	LAFS.1112.RI.1.1 LAFS.1112.RI.1.2	
34.03.08	Perform hydrotherapy.		
34.03.09	Perform communication skills specifically related to physical therapy.	LAFS.1112.SL.1.1b	
34.03.10	Identify, describe, and demonstrate the use of devices.	LAFS.1112.SL.2.4	
34.03.11	Demonstrate techniques used in active and passive range of motion exercises.		
34.03.12	Instruct patients in bed/wheelchair mobility.	LAFS.1112.SL.2.4	
34.03.13	Describe the relationship between long-term and short-term goals.	LAFS.1112.RI.1.3	
34.04	If unlicensed occupational restorative type skills is one of the selected allied health areas to be taught, students will:		SC.912.N.1.1
34.04.01	Assist clients to eat using prompting.		
34.04.02	Identify augmented communication devices and purposes of each.		
34.04.03	Describe equipment used in occupational therapy.	LAFS.1112.RI.1.1	

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
34.04.04 Make splints.		
34.04.05 Perform feeding and dressing skills using adaptive equipment.		
34.04.06 Perform feeding and dressing skills using one hand.		
34.04.07 Perform communication skills specifically related to occupational therapy.	LAFS.1112.SL.1.1b	
34.04.08 Perform and instruct range and motion exercises.	LAFS.1112.L.3.6	
34.04.09 Name and discuss the avenues of occupational therapy practice.	LAFS.1112.W.3.8	
34.04.10 Train the client in clothing care skills.	LAFS.1112.SL.1.1a LAFS.1112.SL.2.4	
34.04.11 Train the client in food preparation skills.	LAFS.1112.SL.1.1a LAFS.1112.SL.2.4	
34.04.12 Train the client in money management skills.	LAFS.1112.SL.1.1a LAFS.1112.SL.2.4	
34.05 If unlicensed respiratory restorative type skills is one of the selected allied health areas to be taught, students will:		SC.912.L.14.36 SC.912.L.14.37 SC.912.L.14.38 SC.912.L.14.39 SC.912.L.14.40 SC.912.L.14.41 SC.912.L.14.44 SC.912.N.1.1
34.05.01 Name and discuss the avenues of Respiratory Care Practice.	LAFS.1112.W.3.8	
34.05.02 Describe common respiratory diseases (asthma, emphysema, chronic bronchitis, atelectasis) and common medications used to treat respiratory diseases.	LAFS.1112.W.3.8 LAFS.1112.L.3.6	
34.05.03 Recognize normal breath sounds when auscultating the chest with a stethoscope.		
34.05.04 Assemble and practice using gas reducing and flow regulating equipment.		
34.05.05 Demonstrate and discuss the use of incentive spirometers.	LAFS.1112.W.2.4 LAFS.1112.W.3.8 LAFS.1112.RI.1.1 LAFS.1112.RI.1.2	
34.05.06 Differentiate between various oxygen delivery devices (nasal cannulas, simple and re-breathing masks, oxyhoods, enclosures).	LAFS.1112.W.2.4 LAFS.1112.W.3.8	
34.05.07 Stock shelves with, process, and perform preventative maintenance on respiratory care equipment.		

<b>CTE Standards and Benchmarks</b>		<b>FS-M/LA</b>	<b>NGSSS-Sci</b>
34.05.08	Check emergency equipment assigned to respiratory care.		
34.05.09	Demonstrate/discuss the use of postural drainage and percussion.	LAFS.1112.W.2.4 LAFS.1112.W.3.8	
34.05.10	Discuss and practice the use of the pulse oximeter.		
34.05.11	Describe the equipment and use of humidity/aerosol.	LAFS.1112.W.2.4 LAFS.1112.W.3.8	
34.06	If medical administrative assisting type skills is one of the selected allied health areas to be taught, students will:		SC.912.P.10.18
34.06.01	Demonstrate an understanding of basic medical terminology e.g. prefixes, suffixes and root words related to major body systems.	LAFS.1112.RI.2.4 LAFS.1112.L.3.4	
34.06.02	Demonstrate an understanding of straight numerical, alphabetical and terminal digit filing.		
34.06.03	Demonstrate computer literacy, keyboarding and retrieval skills.		
34.06.04	List procedures for scheduling and referring patients, and handling walk-in emergency patients.		
34.06.05	Understand what is required to create and submit a medical bill	LAFS.1112.RI.1.1	
34.06.06	Define a Release of Medical Information, Explanation of Benefit, Assignment of Benefit and Electronic Remittance Advice.	LAFS.1112.L.3.6 LAFS.1112.RI.2.6	
34.06.07	Develop an understanding of healthcare coverage and be able to interpret the information contained on the patient's insurance card.	LAFS.1112.RI.1.1 LAFS.1112.RI.4.10	
34.06.08	Understand the financial terms and procedures involved in operating a medical office practice, including Income, Expense, Accounts Receivable, Accounts payable, Cash and Accrual Accounting, Write-off Adjustments.	LAFS.1112.L.3.4c	
34.07	If unlicensed Radiologic type skills is one of the selected allied health areas to be taught, students will:		SC.912.L.14.36
34.07.01	Compare and contrast the development of x-rays through digital media or through film.		
34.07.02	Identify the function of a cassette, film, and screen.	LAFS.1112.RI.1.3	
34.07.03	Describe how radiation produces an image on film and through digital technology.	LAFS.1112.RI.1.3	
34.07.04	Identify the process by which x-ray film is developed.		
34.07.05	Process a film through an automatic processor.	LAFS.1112.L.3.4c	
34.07.06	Identify anatomical position and terminology medial, lateral, superior, inferior, anterior/ventral, and posterior/dorsal).	LAFS.1112.SL.2.4	
34.07.07	Identify patient properly (check identification band, etc.)	LAFS.1112.SL.2.6 LAFS.1112.SL.2.4	
34.07.08	Explain appropriate exam(s) to the patient.	LAFS.1112.SL.2.4	

CTE Standards and Benchmarks		FS-M/LA	NGSSS-Sci
34.07.09	Perform safe body mechanics and transferring skills of patient onto x-ray table.		
34.07.10	Position patient for exam(s) (chest, KUB, hand and foot).		
34.07.11	Position x-ray tube to simulate exposure for exam(s) (chest, KUB, hand and foot).		
34.07.12	Position patient in supine, prone, lateral, oblique, AP, PA of appropriate part.		
34.08	If unlicensed phlebotomy aide type skills are to be taught, students will:		SC.912.L.14.36 SC.912.N.1.1
34.08.01	Demonstrate accepted professional communication and interpersonal skills of a phlebotomist.	LAFS.1112.SL.2.6	
34.08.02	Discuss phlebotomy in relation to the health care setting.	LAFS.1112.SL.1.2	
34.08.03	Identify the anatomic structure and function of body systems in relation to services performed by phlebotomist.		
34.08.04	Recognize and identify collection reagents, supplies, equipment and interfering chemical substances.		
34.08.05	Demonstrate skills and knowledge necessary to perform phlebotomy.	LAFS.1112.SL.2.4 LAFS.1112.SL.2.6	
34.08.06	Practice accepted procedures of transporting, accessioning and processing specimens.		
34.08.07	Practice quality assurance and safety.		
34.08.08	Discuss the process of performing venipuncture.		
34.09	If unlicensed geriatric type skills are to be taught, (for students completing nurse assisting only) students will:		SC.912.L.14.51 SC.912.L.14.52
34.09.01	Recognize types of long term care facilities and levels of care.		
34.09.02	Be familiar with legislation affecting long term care.	LAFS.1112.RI.3.8	
34.09.03	Discuss physical and emotional effects of aging and appropriate ways of dealing with them.	LAFS.1112.SL.2.6	
34.09.04	Recognize the stages of dementia and the care of residents in each stage.	LAFS.1112.SL.1.1d	
34.09.05	Discuss reality orientation, reminiscing, and validation therapy.	LAFS.1112.SL.1.2	
34.09.06	Describe the effects of aging on nutritional needs.	LAFS.1112.W.2.4	
34.09.07	Provide for the safety of the elderly and chronically ill patient, including prevention of falls, prevention of infections, provision of a safe environment and prompt attendance to patients' needs.		
34.09.08	Check integrity of patient's skin condition and take appropriate actions when needed.		
34.09.09	Recognize common chronic illnesses and the special care required.		
34.09.10	Provide appropriate end of life care.		

CTE Standards and Benchmarks	FS-M/LA	NGSSS-Sci
34.09.11 Describe common medications taken by the elderly and chronically ill, their effects, and side effects.		
34.10 If electrocardiograph technician skills are to be taught, students will:		SC.912.L.14.36 SC.912.N.1.1
34.10.01 Describe the cardiovascular system.	LAFS.1112.SL.1.2 LAFS.1112.RI.1.3 LAFS.1112.SL.2.6	
34.10.01.1 Correlate the anatomy of the heart to the placement of leads for an EKG including special needs populations.		
34.10.01.2 Correlate the electrical conduction system of the heart to the rhythms.		
34.10.01.3 Compare and contrast polarization, depolarization and repolarization as it applies to patient care scenarios.		
34.10.01.4 Describe the usual pattern of electrical flow through the conduction system including the five major areas and physical layout.		
34.10.01.5 Give the inherent rates for the SA node, the AV junction, and the ventricles.		
34.10.02 Demonstrate an understanding of the role and responsibilities of the EKG/ECG tech.		
34.10.02.1 Recognize and practice legal and ethical responsibilities as they relate to an EKG tech.	LAFS.1112.RI.3.8	
34.10.02.2 Prepare and maintain all EKG equipment		
34.10.02.3 Identify patient and verify the requisition order.		
34.10.02.4 State precautions required when performing diagnostic procedures.		
34.10.02.5 Recognize a cardiac emergency.		
34.10.03 Demonstrate knowledge of, apply and use medical instrumentation modalities.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.10.03.1 Calculate a patient's heart rate from the EKG tracing ( for example 6-second method)	LAFS.1112.SL.2.4	
34.10.03.2 Perform a 12 lead EKG		
34.10.04 Recognize normal and abnormal monitoring.	LAFS.1112.L.1.1	
34.11 If unlicensed veterinary type skills is one of the selected allied health areas to be taught, students will:		SC.912.L.14.52 SC.912.L.15.6 SC.912.L.16.10 SC.912.N.1.1
34.11.01 Discuss ethical considerations related to animal care and use.	LAFS.1112.RI.3.8	
34.11.02 Describe Science within the animal care industry.	LAFS.1112.SL.1.1a	

CTE Standards and Benchmarks		FS-M/LA	NGSSS-Sci
34.11.03	Identify common domestic animal species and breeds.		
34.11.04	Apply academic skills to animal care situations terminology, veterinary medical dosages.	LAFS.1112.L.3.6	
34.11.05	Describe basic concepts of animal nutrition.	LAFS.1112.L.3.6	
34.11.06	Provide appropriate general care to a variety of common companion animal species.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.11.07	Safely handle, restrain, confine, and examine companion animals,	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.11.08	Demonstrate proper grooming techniques for animals.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.11.09	Socialize young animals and basic obedience train dogs.		
34.11.10	Describe and demonstrate procedures for identifying, preventing, and controlling diseases of companion animals and zoonotic diseases.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.11.11	Demonstrate basic knowledge of laboratory procedures used in veterinary practice.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.11.12	Assist with veterinary nursing procedures.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.11.13	Demonstrate knowledge of veterinary office procedures.		
34.12	If housekeeping type skills is one of the selected allied health areas to be taught, students will:		
34.12.01	Organize and maintain supplies and equipment.		
34.12.02	Use housekeeping equipment		
34.12.03	Care for and distribute laundry.		
34.12.04	Perform housekeeping activities.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.12.05	Care for the cleaning and maintenance of horizontal and vertical surfaces within facility.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.12.06	Identify chemicals and their proper use		
34.12.07	Demonstrate safety, security, and sanitation skills.	LAFS.1112.SL.1.1d LAFS.1112.L.1.1	
34.13	If biomedical research type skills is one of the selected allied health areas to be taught, students will:		SC.912.L.14.6 SC.912.L.15.15 SC.912.L.16.1 SC.912.L.16.2 SC.912.L.16.3 SC.912.L.16.4 SC.912.L.16.5 SC.912.L.16.6 SC.912.L.16.7

CTE Standards and Benchmarks		FS-M/LA	NGSSS-Sci
			SC.912.L.16.8 SC.912.L.16.9 SC.912.L.16.10
34.13.01	Comprehend technical vocabulary.	LAFS.1112.L.3.6	
34.13.02	Document lab results accurately.		
34.13.03	Recognize hazardous lab conditions.		
34.13.04	Maintain safe work environment, including but not limited to correct handling, storing, and disposing of hazardous materials, and use of personal protective equipment.		
34.13.05	Research regulatory bodies (OSHA, NIH, NR, DOT, EPA, CDC, NRC, CLIA, DEA and FDA)	LAFS.1112.W.3.9b LAFS.1112.W.3.7	
34.13.06	Discuss testing methods and inspection procedures in relation to quality control.	LAFS.1112.SL.1.1a	
34.13.07	Monitor environmental conditions of research facility (growth chamber, greenhouse, seed storage room, animal housing or manufacturing site).		
34.13.08	Discuss the proper utilization of test plants and animals.	LAFS.1112.SL.1.2 LAFS.1112.SL.2.4 LAFS.1112.SL.2.6	
34.13.09	Prepare solutions and reagents for laboratory use.		
34.13.10	Operate laboratory equipment.		
34.13.11	Identify common microorganisms.		
34.13.12	Explain how to culture and perform bioassays.		
34.13.13	Discuss genetic engineering skills.	LAFS.1112.SL.1.2 LAFS.1112.SL.2.4 LAFS.1112.SL.2.6	
34.13.14	Utilize problem solving skills.		
34.13.15	Practice asepsis.		
34.13.16	Discuss sterilization techniques, including proper packaging of sterile goods.	LAFS.1112.SL.1.2 LAFS.1112.SL.2.4 LAFS.1112.SL.2.6	
35.0	<u>Successfully complete a clinical rotation in at least 3 major allied health areas--The student will be able to:</u>		
35.01	Demonstrate skills in the clinical setting as outlined in the above standard.		
35.02	Complete three (3) clinical rotations under the supervision of a duly licensed/certified allied health care worker.		
35.03	Exhibit behavior consistent with the professional ethics required of each of the allied health areas being studied.		