



**Level 1** 19003 Principles of Health Science

**Level 2** 19742 Medical Terminology

**Level 3** 29003 Health Science Theory/Health Science Clinical  
09742 Health Science Theory

**Level 4** 19743 CNA  
09743 / H09743 CCMA  
29743 / H29743 Pharm Tech  
39743 EMT  
Practicum in Health Science  
08833/AC 08833/BIOL  
2401/2402 Anatomy & Physiology

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Limited Licensed Radiology Technologist	Medical Sonographer	Nuclear Medical Technology/Technologist	Nuclear Medical Technology/Technologist	Radiologist
EKG/ECG Technician	Radiologic Technologist	Magnetic Resonance Imaging (MRI) Technology/Technician	Medical Radiologic Technology/Science Radiation Therapist	Radiologic Technology/Science - Radiographer
Medical Laboratory Technician				
Phlebotomy Technician				

Occupations	Median Wage	Annual Openings	% Growth
Diagnostic Medical Sonographers	\$69,909	495	35%
Phlebotomists	\$30,597	1442	36%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1196	19%
Magnetic Resonance Imagine Technologists	\$68,661	217	21%

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b>	<b>Work Based Learning Activities:</b>
Health Occupation Students of America (HOSA)	Clinical rotations at a community wellness center, hospital, assisted living, nursing home

The Healthcare Diagnostics program of study introduces students to occupations and education opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology and ultrasound technology.



The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Service or STEM Endorsement if the math and science requirements are met. Revised- July 2020

GCCISD offers career and technical education (CTE) programs in Agriculture, Food & Natural Resources; Architecture & Construction; Arts, Audio Visual Technology & Communications; Business, Marketing & Finance; Education & Training; Energy; Health Science; Hospitality & Tourism; Human Services; Information Technology; Law & Public Service; Manufacturing; Science, Technology, Engineering & Math; and Transportation, Distribution & Logistics. Admission to these programs is based on student interest and space availability in GCCISD CTE programs. It is the policy of GCCISD CTE Programs not to discriminate on the basis of race, color, national origin, sex or handicap in its CTE programs, services or activities.



GOOSE CREEK  
CONSOLIDATED  
INDEPENDENT  
SCHOOL DISTRICT



# COURSE INFORMATION

<b>19003</b>	<b>PRINCIPLES OF HEALTH SCIENCE</b>	<b>GPA Level: Regular</b>
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Grade Level: 9-12	Service ID: 13020200 (1 cr.)	Prerequisites: None
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This course is an introduction to the Health Science careers and terminology. It provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

<b>19742</b>	<b>MEDICAL TERMINOLOGY</b>	<b>GPA Level: Regular</b>
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Grade Level: 10-12	Service ID: 13020300 (1 cr.)	Prerequisites: None <b>Satisfies Technology Requirement</b>
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Medical terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. Students develop the extensive medical vocabulary that will help them to succeed in healthcare occupations by comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology and pathophysiology. Students will also develop technology and workplace skills by using word-processing software, spreadsheets and creating presentations.

<b>29003</b>	<b>HEALTH SCIENCE THEORY/HEALTH SCIENCE CLINICAL</b>	<b>GPA Level: Regular</b>
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Grade Level: 11-12	Service ID: 13020410 (2 cr.)	Prerequisites: Course Application; Biology & Principles of Health Science
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The Health Science Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. Students must be able to job shadow independently in medical environments.

Enrollment is limited and students are required to obtain vaccinations, flu shot, and drug testing (if required), to participate in this course. Course costs will vary based on course requirements. Approximate cost of uniform \$50.00.

<b>09742</b>	<b>HEALTH SCIENCE THEORY</b>	<b>GPA Level: Regular</b>
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Grade Level: 10-12	Service ID: 13020400 (1 cr.)	Prerequisites: Course Application; Biology & Principles of Health Science
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The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

# COURSE INFORMATION

<b>19743</b>	<b>PRACTICUM IN HEALTH SCIENCE (CNA) – REL, RSS</b>	<b>GPA Level: Regular</b>
Grade Level: 12	Service ID: 13020500 (2 cr.)	Prerequisites: Course Application; Health Science Theory/Health Science Clinical or Medical Interventions
<p>The Practicum in Health Science- Certified Nursing Assistant (CNA) course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in a variety of locations. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. This course will prepare students for state certification testing to become credentialed and licensed as a CNA. Students are required to obtain vaccinations, a flu shot, fingerprinting, background check (and drug testing if required), to participate in this course. Transportation must be provided by student. Approximate cost of class- \$125.00 for testing, \$50.00 for uniform, \$30.00 for class workbook. Course costs may vary. A valid social security card is required for state licensing.</p>		

<b>09743 H09743</b>	<b>PRACTICUM IN HEALTH SCIENCE (CCMA)</b>	<b>GPA Level: Regular GPA Level: Honors</b>
Grade Level: 12	Service ID: 13020500 (2 cr.)	Prerequisites: Course Application; Health Science Theory/Health Science Clinical or Medical Interventions
<p>The Practicum in Health Science- Certified Clinical Medical Assistant (CCMA) course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in a variety of locations. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. This course will prepare students for national certification testing to become credentialed as a CCMA upon graduation. Students are required to obtain vaccinations, a flu shot, (fingerprinting and drug testing if required), to participate in this course. Course costs will vary based on course requirements. Transportation must be provided by student. Approximate cost of class- \$155.00 for testing and \$50.00 for uniform and \$30.00 for stethoscope.</p>		

<b>29743 H29743</b>	<b>PRACTICUM IN HEALTH SCIENCE (PHARMACY TECH) - RSS</b>	<b>GPA Level: Regular GPA Level: Honors</b>
Grade Level: 12	Service ID: 13020500 (2 cr.)	Prerequisites: Course Application; Health Science Theory/Health Science Clinical or Medical Interventions, Algebra II, & Chemistry
<p>This course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in a pharmacy location. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, personal appearance, hygiene, and time management. This course will prepare students for national certification testing to become credentialed as a Pharmacy Technician upon graduation. Certification Exam - \$129 Students must provide their own transportation. Fingerprinting &amp; Background Check - \$37, Scrubs - \$50 &amp; Drug Testing - \$50 Some course cost may vary from those listed.</p>		

# COURSE INFORMATION

<b>39743</b>	<b>PRACTICUM IN HEALTH SCIENCE (EMT) - RSS</b>	<b>GPA Level: Regular GPA Level: Honors</b>
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Grade Level: 12	Service ID: 13020500 (2 cr.)	Prerequisites: Course Application & CNA
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The Practicum in Health Science – Emergency Medical Technician (EMT) course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in EMS and emergency room locations. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. This course will prepare students for national certification testing to become credentialed as an EMT-Basic upon graduation. Students are required to obtain vaccinations, a flu shot, fingerprinting and drug testing to participate in this course. Course costs will vary based on course requirements. Transportation must be provided by student. Approximate cost of class: \$80 NREMT application fee, \$80 exam fee, \$50 fingerprinting & background check, and \$100 uniform. A valid social security card and state ID are required for certification. Must be 18 years old with high school diploma to test.

<b>08833 / AC 08833</b>	<b>ANATOMY &amp; PHYSIOLOGY</b>	<b>GPA Level: Regular</b>
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Grade Level: 11-12	Service ID: 13020600 (1 cr.)	Prerequisites: Biology and a Second Science <b>Satisfies Science Credit</b>
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Anatomy and Physiology studies the human body from two aspects. First, students will learn proper anatomical terminology and location of body parts. Second, students will study the function of each system from the cellular level through tissues and the organs involved. During this course of study, students will use microscopes, dissecting tools and basic chemistry to study the workings of the organs, tissues and cells of the human body. This course is a great college prep class for any student interested in furthering their education in the field of medicine.

<b>BIOL 2401</b>	<b>HUMAN ANATOMY &amp; PHYS I (ANAT &amp; PHYS)</b>	<b>GPA Level: DC</b>
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Grade Level: 11- 12	Service ID: 13020600 (0.5 cr.)	Prerequisites: Biology and a 2nd Science; Meet Dual Credit Requirements & See Lee College's Course Catalog <b>Satisfies Science Credit</b>
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This course consists of the fundamentals of human anatomy and physiology with the emphasis on etiology and functions of anatomical systems. Laboratory includes dissection of a mammal, study of selected mammalian organs, histological studies, and physiological experiments.

<b>BIOL 2402</b>	<b>HUMAN ANATOMY &amp; PHYS II (ANAT &amp; PHYS)</b>	<b>GPA Level: DC</b>
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Grade Level: 11- 12	Service ID: 13020600 (0.5 cr.)	Prerequisites: BIOL and a 2nd Science; Meet Dual Credit Requirements & See Lee College's Course Catalog <b>Satisfies Science Credit</b>
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This course consists of the fundamentals of human anatomy and physiology with the emphasis on etiology and functions of anatomical systems. Laboratory includes dissection of a mammal, study of selected mammalian organs, histological studies, and physiological experiments.

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER,  
PLEASE CONTACT:

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