Local Implementation Considerations:

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Proposed Indicator: Students finishing three or more courses for four or more credits with one course from a recognized TEA capstone course (in bold) within a program of study earn completer status for federal accountability reporting.
The Health Informatics program of study focuses on exposing students to the management and use of patient information in the healthcare field. Students may learn about and research recent modifications of computerized healthcare and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students may also practice writing and interpreting medical reports.

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 Health Informatics program of study will fulfill requirements of the Public Service Endorsement.

Approved Statewide Program of Study - September 2019
<table>
<thead>
<tr>
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<th>PREREQUISITE (PREQ) RECOMMENDED PREREQUISITES (RPREQ)</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8H100/8H105DC/8H760MST Medical Terminology</td>
<td>13020300 (1 credit)</td>
<td>None</td>
<td>9-10</td>
</tr>
<tr>
<td>8H200/8H701MST/8H205DC Principles of Health Science</td>
<td>13020200 (1 credit)</td>
<td>None</td>
<td>10-11</td>
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<tr>
<td>8D120 Business Information Management I</td>
<td>13011400 (1 credit)</td>
<td>None</td>
<td>9-11</td>
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<tr>
<td>8H910S (GRCTC) Fall Health Informatics</td>
<td>13020960 (1 credit)</td>
<td>PREQ: Business Information Management I and Medical Terminology</td>
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<tr>
<td>8H913S,8H915S DC (GRCTC) Spring World Health Research</td>
<td>13020970 (1 credit)</td>
<td>PREQ: Geometry, Algebra II and Health Informatics</td>
<td>11-12</td>
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<tr>
<td>8H930S (GRCTC) Fall Mathematics for Medical Professionals</td>
<td>13020900 (1 credit)</td>
<td>PREQ: Biology, Chemistry, Health Informatics, and World Health Research</td>
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<tr>
<td>8H933S (GRCTC) Spring Project Based Research-Medical Informatics</td>
<td>12701500 (1 credit)</td>
<td>PREQ: Biology, Chemistry, Mathematics for Medical Professionals</td>
<td>12</td>
</tr>
</tbody>
</table>
The Healthcare Diagnostics program of study introduces students to occupations and educational 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 ultrasonic technology.

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Service Endorsement. Approved Statewide Program of Study - September 2019
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**Additional industry based certification information is available from the TEA CTE website.

** Offered at NGHS and GRCTC

For more information on postsecondary options for this program of study, visit TXCTE.org.
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<td>8H200/8H701 MST Principles of Health Science</td>
<td>13020200 (1 credit)</td>
<td>None</td>
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<tr>
<td>8H302/8H325 DC 8H702 MST/8H715 MST DC Health Science Theory OR 8H300/8H720 MST Health Science Theory with Clinical</td>
<td>13020400 (1 credit)</td>
<td>PREQ: Principles of Health Science</td>
<td>11-12</td>
</tr>
<tr>
<td>8H310/8H311(H) Anatomy &amp; Physiology</td>
<td>13020600 (1 credit)</td>
<td>PREQ: Biology and a second science credit</td>
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<tr>
<td>8H400 Practicum in Health Science - other: where courses make</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<tr>
<td>8H730 MST MST Practicum in Health Science - Medical Laboratory</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<tr>
<td>8H735 MST DC MST Practicum in Health Science - Basic Skills I &amp; II</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health information, 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.

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<td>13020200 (1 credit)</td>
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<td>8H310/8H311(H) Anatomy and Physiology</td>
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<td>PREQ: Biology and a second science credit</td>
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<td>8H302/8H325 DC/ 8H702 MST/8H715 DC MST Health Science Theory</td>
<td>13020400 (1 credit)</td>
<td>PREQ: Principles of Health Science</td>
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<td>8H300/8H720 MST Health Science Theory with Clinical</td>
<td>13020410 (2 credits)</td>
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<tr>
<td>8H740 MST MST Medical Microbiology</td>
<td>13020700 (1 credit)</td>
<td>PREQ: Biology, Chemistry and Principles of Health Science</td>
<td>11-12</td>
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<tr>
<td>8H770 MST/8H775 DC MST MST Pathophysiology</td>
<td>13020800 (1 credit)</td>
<td>PREQ: Biology, Chemistry and Principles of Health Science</td>
<td>11-12</td>
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<tr>
<td>8H400/ 8H730 MST Practicum in HS - other MST Med Lab, Sports Medicine, or CMA</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<tr>
<td>8H950 (GRCTC) Practicum in HS - Dental Assisting</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<td>8H942 (GRCTC) Practicum in HS - Clinical Medical Assistant (CMA) &amp; EKG</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<td>8H960/8H965 DC (GRCTC) 8H731 MST Practicum in HS - Pharmacy Technician</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<tr>
<td>8H400 (SGHS) Practicum in HS Science - Certified Nurse Assistant</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<td>8H405 DC (NGHS) 8H735 DC MST Practicum in HS - Basic Skill I and II</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<td>8H415 DC (NGHS) Practicum in HS - Basic Skill I and II-PCT -Track</td>
<td>13020500 (2 credits)</td>
<td>PREQ: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology</td>
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<tr>
<td>8H425 DC (NGHS) Practicum in HS II - Basic Skill I and II-PCT Track</td>
<td>13020510 (2 credits)</td>
<td>PREQ: DC Practicum of HS I (NGHS)</td>
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</table>
Health Science

Medical Terminology
8H100/8H105 DC/8H760 MST
TSDS PEIMS Code: 13020300 (MEDTERM)
Grade Placement: 9–10, Credit: 1
Prerequisite: None.
The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. (DC: NGHS - must apply with DCCCD and be accepted).

Principles of Health Science
8H200/8H701 MST/8H205 DC (NGHS)
TSDS PEIMS Code: 13020200 (PRINHLS)
Grade Placement: 10-11 (DC NGHS 9-10), Credit: 1
Prerequisite: None.
The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. (Dual Credit: 8H205, NGHS Dual Credit for: HPRS 1201 Intro to Health Professions, HPRS 1202 Wellness and Health Promotion. WECM with El Centro College. DC NGHS. Student must apply with DCCCD and be accepted)

Business Information Management I
8D120
TSDS PEIMS Code: 13011400 (BUSIM1)
Grade Placement: 9 - 11, Credits: 1
Prerequisite: None. Part of the Medical Informatics at the GRCTC
In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create wordprocessing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Health Science Theory
8H302/8H325 DC/8H715 MST/8H715 DC MST (NGHS)
TSDS PEIMS Code: 13020400 (HLTHSCI)
Grade Placement: 11-12, Credit: 1
Prerequisites: Biology and Principles of Health Science
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. (Dual Credit: NGHS, 8H325 Dual Credit for: HPRS 2231 General Health Professions Management WECM with El Centro College. DC NGHS. Student must apply with DCCCD and be accepted)

Health Science Theory with Clinical
8H300/8H720 MST
TSDS PEIMS Code: 13020400 (HLTHSCLIN)
Grade Placement: 11-12, Credit: 2
Prerequisites: Biology and Principles of Health Science
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. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.

Students may only take one of the following courses; Health Science Theory, or Health Science Theory with Clinical. Can not take both.
Anatomy and Physiology
8H310/8H311(H)
TSDS PEIMS Code: 13020600 (ANATPHYS)
Grade Placement: 11-12, Credit: 1
Prerequisite: Biology and a second science credit.
Recommended Prerequisite: A course from the Health and Science Career Cluster. The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.
Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

Health Informatics
8H910 (GRCTC) Fall
TSDS PEIMS Code: 13020960 (HLTHINF)
Grade Placement: 11-12, Credit: 1
Prerequisites: Business Management I and Medical Terminology.
The Health Informatics course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. The large gap between state of the art computer technologies and the state of affairs in health care information technology has generated demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries, while managing the vast amount of data generated by these systems.

World Health Research
8H913 (GRCTC) Spring
TSDS PEIMS Code: 13020900 (WORLDHR)
Grade Placement: 11-12, Credit: 1
Prerequisites: Biology, Chemistry, Health Informatics
The World Health Research course is designed to examine major world health problems and emerging technologies as solutions to these medical concerns. It is designed to improve students’ understanding of the cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues.

MST Medical Microbiology
8H740 MST(NGHS)
TSDS PEIMS Code: 13020700 (MICRO)
Grade Placement: 11-12, Credit: 1
Prerequisites: Biology, Chemistry and Principles of Health Science
The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement.
Note: This course satisfies a science credit requirement for students on the Foundation High School Program. This course only offered at North Garland High as part of the MST Medical Magnet. DC must apply with DCCCD and be accepted
MST Pathophysiology
8H770/8H775 DC MST (NGHS)
TSDS PEIMS Code: 13020800 (PATHO)
Grade Placement: 11-12, Credit: 1
Prerequisites: Biology, Chemistry and Principles of Health Science
The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable. Note: This course satisfies a science credit requirement for students on the Foundation High School Program. DC must apply with DCCCD and be accepted

Mathematics for Medical Professionals
8H930 (GRCTC) Fall
TSDS PEIMS Code: 13020970 (MTHMEDPR)
Grade Placement: 12, Credit: 1
Prerequisites: Geometry, Algebra II and Health Informatics and World Health Research
The Mathematics for Medical Professionals course is designed to serve as the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding in medical mathematics, students will extend and apply mathematical skills necessary for health science professions. Course content consists primarily of high school level mathematics concepts and their applications to health science professions.
Note: This course satisfies a math credit requirement for students on the Foundation High School Program

Project-Based Research - Medical Informatics
8H933 (GRCTC) Spring
TSDS PEIMS Code: 12701500 (PROBS1)
Grade Placement: 12, Credit: 1
Prerequisite: Biology, Chemistry, Health Informatics, Math for Medical Professionals, and World Health Research
Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Practicum in Health Science - Other
8H400/8H730 MST
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement:12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology.
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Training may differ depending on the campus and instructor. Internship or work based learning is an option for this class.
Practicum in Health Science - Certified Nursing Assistant
8H400 (SGHS)
TSDS PEIMS Code: 13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. This class covers all of the theory and skills required to pass the Certified Nursing Aide (CNA) exam. Texas Certified Nurse Aides are under the jurisdiction of the Texas Department of Aging and Disability Services (TX Dept of Health and Human Services). Certified Nurse Aides must complete training and evaluation programs. They must also have acceptable legal and professional backgrounds. Drug screen and background check will be required for this class. A clinical component is also required. Student must complete an interest form. Course requirements to be met.

Practicum in Health Science - Clinical Medical Assistant & EKG
8H942 (GRCTC)
TSDS PEIMS Code: 13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The Clinical Medical Assistant is a multi-skilled allied health care professional that specialized in procedures commonly performed in the ambulatory health care setting. Medical Assistants perform both clinical and administrative duties and assist a variety of providers including physicians, nurse practitioners and physician assistants. They typically work in medical offices, clinics, urgent care centers and may work in general medicine or specialty practices. Students will also have the opportunity to study electrocardiography, task of administering EKGs, holter monitors and stress test. Student may be required to submit a background check and a drug screen. Student must complete an interest form. Course requirements to be met.

Practicum in Health Science - Dental Assisting
8H950 (GRCTC)
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will gain in-depth experience, and the opportunity to apply for training and exams such as Registered Dental Assistant. Class will include Introduction to Dental Assisting Profession, Ethics, Communication Skills, Infection Control and Hazard Management, Clinical Procedures, Clerical Functions, Concepts in Radiological and Digital Imaging, cooperating health care facility or training stations. Student may be required to submit a background check and a drug screen. Student must complete an interest form. Course requirements to be met.

Practicum in Health Science - Pharmacy Technician
8H960/8H965 DC (GRCTC) or 8H731 MST (NGHS)
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will learn Pharmacy Law, Ethics and Regulations, Sterile & Nonsterile compounding, Medication Safety, Pharmacy Quality Assurance, Medication Order Entry and Fill Process, Pharmacy Inventory Management, Pharmacy Billing & Reimbursement, Pharmacy Information Systems Usage and Application. Student may be required to submit a background check and a drug screen. (Dual Credit for: Pharmacology for Health professions, WECM with El Centro College. DC must apply with DCCCD and be accepted). Course requirements to be met.
MST Practicum in Health Science - Medical Laboratory
8H732 MST
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement:12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory/ Clinical and Biology.
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In a basic clinical laboratory students will learn laboratory tests and procedures and laboratory safety. Techniques such as specimen collection and analysis, phlebotomy and blood typing will be explored.

MST Practicum in Health Science - Sports Medicine
8H734 MST (NGHS)
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement:12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory/ Clinical and Biology.
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Sports Medicine focuses on treating sport-related injuries. Personal Fitness will also be covered as well as prevention and recovery from sport related injuries.

MST Practicum in Health Science - Basic Skills I and II Dual Credit
8H405/8H735 DC (NGHS)
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students learn basic patient care, safety, EKG, vital signs monitoring, phlebotomy procedures, how to provide emotional support to patient and families such as coping skills for grief and death. Simulation of patient care utilizing critical thinking and advanced clinical skills. Student may be required to submit a background check and a drug screen. Dual Credit for: Basic Skills I and II HPRS 1204 and HPRS 2210 are WECM courses with El Centro College. DC must apply with DCCCD and be accepted. Course requirements to be met.

Practicum in Health Science 1 - Certified Patient Care Technician - Pharmacology and Pathophysiology - Dual Credit
8H415 DC (NGHS)
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Pathophysiology is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. The study of disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. The Pharmacology portion of the course is a study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Students must apply to DCCCD and be accepted to participate in this class. (Dual Credit: NGHS. HPRS 2300 Pharmacology for Health Professions, HPRS 2201 Pathophysiology. WECM with El Centro College. DC must apply with DCCCD and be accepted). Course requirements to be met.
Practicum in Health Science II - Certified Patient Care Technician - Basic Skills I & II, Special Topics in Patient Care - Dual Credit
8H425 (NGHS)
TSDS PEIMS Code:13020500 (PRACHLS1)
Grade Placement: 12, Credit: 2
Prerequisites: Principles of Health Science, Health Science Theory or Health Science Theory with Clinical and Biology. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students learn basic patient care, safety, EKG, vital signs monitoring, phlebotomy procedures, how to provide emotional support to patient and families such as coping skills for grief and death. Simulation of patient care utilizing critical thinking and advanced clinical skills. Patient Care Technician Review follows the NHA Detailed Certified Patient Care Technician Test Plan and provides a review of material related to Patient Care Technician. The course includes the use of Practice Exams that simulate an actual certification examination experience, as well as the use of CPCT study guides and hands on lab skills practice. Successful completers of this Capstone course will be prepared to challenge the National Healthcareer Association (NHA) Certified Patient Care Technician/Assistant exam (CPCT/A). Student may be required to submit a background check and a drug screen. (Dual Credit for: Basic Skills I and II HPRS 1204 and 2210, NUPC 1191 Special Topics in Patient Care Assistant/Aide, WECM with El Centro College. DC must apply with DCCCD and be accepted). Course requirements to be met.