



Recommended Sequence of Courses	Courses Offered at
Principles of Health Science	CHS9
Principles of Health Science (Sports Medicine I)	CHS9
Medical Terminology	CHS
Principles of Health Science	CHS
Principles of Health Science (Sports Medicine I)	CHS
Project-Based Research (Sports Medicine II)	CHS
*Anatomy and Physiology AND *Health Science Theory	CHS
*Health Science Theory (Sports Medicine III)	CHS
*Practicum in Health Science- Certified Pharmacy Technician	CHS
*Practicum in Health Science - Certified Personal Trainer (Sports Medicine IV)	CHS
*Extended Practicum in Health Science - Emergency Medical Technician	CHS
*Practicum in Health Science - Medical Assistant	CHS

**\*Advanced Courses**

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Certified Personal Trainer				
Certified Patient Care Technician	Surgical Technologist			Physician Assistant
Certified Nurse Aide/Assistant	Medical Assistant	Medical/ Clinical Assistant		Family and General Practitioners
Certified Pharmacy Technician	Pharmacy Aides			Pharmacist

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	%GROWTH
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$46,310	1,150	21%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%
Dental Assistants	\$34,840	4,422	31%

Additional industry based certification information is available from 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> Health Occupation Students of America (HOSA); National Technical Honor Society (NTHS)	<b>Work Based Learning Activities:</b> Obtain Industry based certification. Non paid EMT required training. 72 hours of clinical rotation
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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 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 Therapeutic program of study will fulfill requirements of the Public Service Endorsement.

Approved Statewide Program of Study - September 2019



# COURSE INFORMATION

## Principles of Health Science (needed to advance towards Emergency Medical Technician, Pharmacy Technician, or Medical Assistant)

7401Y (7401 A and B)

Grades: 9-12

Level: 2

Credit: 1 (+.5 Professional Communications Credit)

Prerequisite: None

**Certification Possibility & Required Fees (no fees at CHS9): OSHA 10-Hour- Healthcare (\$25), AHA- BLS: CPR / First Aid- \$10**  
**CTSO Membership opportunity: HOSA - Health Occupation Students of America - \$25 Dues**

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 healthcare industry. This course is part of the Health Careers Pathway and is designed for learners interested in pursuing a career in the health science industry. Learners are required to learn reasoning skills, think critically, make decisions, problem solve and communicate effectively. Learners will identify employment opportunities, technology, and safety requirements of each system. It is important to plan to follow the recommended health science courses in order to qualify for junior/senior year certification courses and medical rotations.

## Principles of Health Science (Sports Medicine I)

7405Y (7405 A and B)

Grades: 9-10

Level: 2

Credit: 1 (+.5 Professional Communications Credit)

Prerequisite: None

**REQUIRES QUALIFICATION FORM & APPROVAL BY CHS ATHLETIC TRAINER. Qualification Form: <https://tinyurl.com/Sports-Medicine-Qualification>**

**Certification Possibility & Required Fees (no fees at CHS9): OSHA 10-Hour- Healthcare (\$25), AHA- BLS: CPR / First Aid- \$10**  
**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

In the Sports Medicine Pathway this class will serve as an introduction for learners that have an interest in athletic training, sports medicine or physical therapy. Learners are required to apply skills learned in class while participating as a member of the Sports Medicine learner staff at different sporting events and practices. Some of the topics covered will be an overview of the profession of athletic training, basic anatomy and basic exercise physiology, injury recognition and prevention and rehabilitation, protective taping and bracing and CPR/First Aid. Learners will have an opportunity to practice all skills through practical laboratory sessions. Qualification Form, References and Interview due by March 1. This class requires working practice either before or after school and scheduled athletic events (which may include some weekends and holidays). This course actually starts in the first week of August before the football, volleyball, and cross country teams meet. August practice sessions are mandatory.

**This course does not apply to the Emergency Medical Technician, Pharmacy Technician, or Medical Assistant pathways.**

## Medical Terminology (needed to advance towards Emergency Medical Technician, Pharmacy Technician, or Medical Assistant)

7420Y (7420 A and B)

Grades: 10-12

Level: 2

Credit: 1

Prerequisite: None

Recommended Prerequisite: Principles of Health Science

**CTSO Membership opportunity: HOSA - Future Health Professionals - \$25 Dues**

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.

**(This course is also offered through Brookhaven Dual Credit option: Medical Terminology- MDCA 1313)**

## Project-Based Research (Sports Medicine II)

7406Y (7406 A and B)

Grade: 10-12

Level: 2

Credit: 1 (+1 PE credit- Foundations of Personal Fitness)

Prerequisite: Principles of Health Science (Sports Medicine I) AND REQUIRES QUALIFICATION FORM & APPROVAL BY CHS ATHLETIC TRAINER.

Qualification Form: <https://tinyurl.com/Sports-Medicine-Qualification>

**Certification Possibility & Required Fees: BLS CPR Instructor Certification & BLS Instructor Essentials (\$25)**

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

Project-Based Research is a course for students to research a sports medicine related issue. Students develop an original project on a topic related to sports medicine. 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. This is a course for learners that are interested in a career in Sports Medicine or Physical Therapy. Grading for this class is based on attending required practices two hours either before or after school and scheduled athletic events (which may include some weekends and/or holidays). Learners will provide leadership in maintaining the training room, scheduling, and peer mentoring to underclassmen in the Sports Medicine program. They will be expected to master advanced competencies of Athletic Training.

**(This course does NOT count for Public Service Endorsement credit)**

**This course does not apply to the Emergency Medical Technician, Pharmacy Technician, or Medical Assistant pathways.**

# COURSE INFORMATION

## Anatomy and Physiology

3820Y (3820A and B)

Grades: 11-12

Level: 3

Credit: 1

Prerequisite: Biology and a second science credit

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

**Note: This CTE course satisfies a science credit requirement for students on the Foundation High School Program.**

Learners in Anatomy and Physiology of Human Systems study the structures and functions of the human body systems and learn how to maintain health and wellness. This course includes at least 40% laboratory investigation using scientific inquiry and dissections.

There is no level-down option for this course.

## Health Science Theory (needed to advance towards Emergency Medical Technician, Pharmacy Technician, or Medical Assistant)

7402Y (7402 A and B)

Grades: 11-12

Level: 2

Credits: 1

(Prerequisite for Practicum in Health Science)

Prerequisites: Biology, Principles of Health Science & Medical Terminology

REQUIRED Corequisite: Anatomy and Physiology

**Certification Possibility & Required Fees: AHA- BLS: CPR / First Aid- \$10, Scrubs- \$60 & Recommended- \$75 for stethoscope**

**CTSO Membership opportunity: HOSA - Future Health Professionals- \$25 Dues**

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.

## Health Science Theory (Sports Medicine III)

7413Y (7413 A and B)

Grades: 11-12

Level: 2

Credits: 1

Prerequisites: Sports Medicine I & II

Recommended Corequisite: Anatomy and Physiology

**Certification Possibility & Required Fees: AHA BLS CPR/AED- \$10**

**REQUIRES QUALIFICATION FORM & APPROVAL BY CHS ATHLETIC TRAINER. Qualification Form: <https://tinyurl.com/Sports-Medicine-Qualification>**

**Required PRIOR to the start of school: TB Skin Test, Flu Shot, Current Drug Screening, Current Criminal Background Check. Must be able to provide your own transportation for off campus Practicum Experiences.**

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

In the Sports Medicine Pathway this class will serve as an introduction for learners that have an interest in athletic training, sports medicine or physical therapy. Learners are required to apply skills learned in class while participating as a member of the Sports Medicine learner staff at different sporting events and practices. Some of the topics covered will be an overview of the profession of athletic training, basic anatomy and basic exercise physiology, injury recognition and prevention and rehabilitation, protective taping and bracing and CPR/First Aid. Learners will have an opportunity to practice all skills through practical laboratory sessions.

**This course does not apply to the Emergency Medical Technician, Pharmacy Technician, or Medical Assistant pathways.**

## Extended Practicum in Health Science (Emergency Medical Technician)

7408DY (7408 DA and DB)

Grades: 12

Level: 3

Credits: 3 (3 Hours Dual Credit offered at CHS) (This is a DOUBLE BLOCKED COURSE- 2 periods)

**72 HOURS OF CLINICAL ROTATIONS OUTSIDE OF THE SCHOOL DAY ARE REQUIRED**

**ENROLLMENT IS LIMITED**

**PROGRAM QUALIFICATION FORM & PATHWAY TEAM APPROVAL REQUIRED FOR ALL SENIOR LEVEL / PRACTICUM COURSES**

Prerequisite: Completion of ALL Pathway courses.

**Certification Possibility & Required Fees: NREMT Exam- \$25 (EMT learners must be at least 18 years of age to take the certification exam), \$250 (Uniform- shirt & pants, Stethoscope, College Textbook)**

**Additional Course Requirements: PRIOR to the start of school- TB Skin Test, Flu Shot, Current Drug Screening, Current Criminal Background Check Must be able to provide transportation for off campus Practicum Experiences.**

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

The Practicum in Health Science is designed to give students practical application of previously studied knowledge to obtain the NREMT for Emergency Medical Technician Exam. Practicum students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Learners should recognize that quality health care depends on the ability to work well with others. Clinical students recognize the employment opportunities, technology, and safety requirements of each system. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities.

**There is no level-down option for this course.**

# COURSE INFORMATION

## Practicum in Health Science (Medical Assistant)

7404Y (7404 A and B)

Grades: 12

Level: 4

Credits: 2 (This is a DOUBLE BLOCKED COURSE- 2 periods)

**PROGRAM QUALIFICATION FORM & PATHWAY TEAM APPROVAL REQUIRED FOR ALL SENIOR LEVEL / PRACTICUM COURSES**

**Prerequisites: Completion of ALL Pathway courses.**

**Certification Possibility & Required Fees: NHA Medical Assistant Exam (\$25), Test-Prep Package (\$75)**

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

This course is designed for the development of advanced knowledge and skills related to a wide variety of health careers. Learners will employ hands-on experiences for continued knowledge and skill development in the field of Health Science. Learners are required to learn reasoning skills, think critically, make decisions, problem solve and communicate effectively. Learners may have some experiences at a medical facility. Students will take the Medical Assistant (CCMA) certification exam at the end of the course.

**There is no level-down option for this course.**

## Practicum in Health Science (Pharmacy Technician)

7409Y (7409 A and B)

Grades: 12

Level: 4

Credits: 2 ((This is a DOUBLE BLOCKED COURSE- 2 periods)

**PROGRAM QUALIFICATION FORM & PATHWAY TEAM APPROVAL REQUIRED FOR ALL SENIOR LEVEL / PRACTICUM COURSES**

**Prerequisites: Completion of ALL Pathway courses.**

**Certification Possibility & Required Fees: \$200 Test-Prep Package, \$60 Uniform- scrubs (if not already purchased),AHA- BLS: CPR / First Aid- \$10, NHA ExCEPT for Pharmacy Technician Exam- \$25**

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

**Must be able to provide transportation for off campus Practicum Experiences.**

The Practicum in Health Science is designed to give students practical application of previously studied knowledge and skills and the knowledge and skills needed for the NHA ExCEPT Exam to obtain a Pharmacy Technician certification. Practicum students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Learners should recognize that quality health care depends on the ability to work well with others. Clinical students recognize the employment opportunities, technology, and safety requirements of each system. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities.

**There is no level-down option for this course.**

## Practicum in Health Science (Sports Medicine IV)

7410Y (7410 A and B)

Grades: 12

Level: 4

Credits: 2 (This is a DOUBLE BLOCKED COURSE- 2 periods)

**PROGRAM QUALIFICATION FORM & PATHWAY TEAM APPROVAL REQUIRED FOR ALL SENIOR LEVEL / PRACTICUM COURSES**

**INSTRUCTOR APPROVAL REQUIRED FOR ALL SENIOR LEVEL / PRACTICUM COURSES**

**Prerequisites: Completion of ALL Pathway courses.**

**Recommended Prerequisites: Medical Terminology**

**Certification Possibility & Required Fees: ACSM Certified Personal Trainer Exam- \$25, ACSM Membership Fee- \$10, CPT Certification Resources, Guidelines, & Review Materials \$180**

**CTSO Membership opportunity: HOSA - Health Occupations Students of America- \$25 Dues**

**REQUIRES QUALIFICATION FORM & APPROVAL BY CHS ATHLETIC TRAINER. Qualification Form: <https://tinyurl.com/Sports-Medicine-Qualification>**

**Must be able to provide transportation for off campus Practicum Experiences.**

In Sports Medicine IV this class requires working practice either before or after school and scheduled athletic events (which may include some weekends and holidays). This course actually starts in the first week of August before the football, volleyball, and cross-country teams meet. August practice sessions are mandatory. This is a course for third year sports medicine students. Students will participate in practices and games as part of the sports medicine student staff.

**This course does not apply to the Emergency Medical Technician, Pharmacy Technician, or Medical Assistant pathways.**

Coppell ISD offers career and technical education programs in Business, Marketing, Arts, AV Tech & Communications, Engineering, Computer Science and Health Science. Admission to these programs is based on grade level and prerequisites met.

It is the policy of Coppell ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

It is the policy of Coppell ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Coppell ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Title IX Coordinator, at 200 S. Denton Tap Rd.; Coppell, Texas 75019, 214-496-6000, and/or the Section 504 Coordinator, at 268 Southwestern Blvd; Coppell, Texas 75019, 214-496-6938.

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El Distrito Escolar Independiente (Independent School District, ISD) de Coppell ofrece programas de educación técnica o profesional en las áreas de comercio, mercadeo, artes, tecnología y comunicación audiovisual, ingeniería, informática y ciencias de la salud. La admisión a estos programas se basa en el nivel de estudios y el cumplimiento de los requisitos.

Es política del ISD de Coppell no discriminar en sus programas vocacionales, servicios o actividades en función de la raza, color, origen nacional, sexo o discapacidad, tal como lo exigen el Título VI de la Ley de Derechos Civiles de 1964, enmendada, el Título IX de las Enmiendas Educativas de 1972 y la Sección 504 de la Ley de Rehabilitación de 1973, enmendada.

Es política del ISD de Copell no discriminar en sus prácticas laborales en función de la raza, color, origen nacional, sexo, edad o discapacidad, tal como lo exigen el Título VI de la Ley de Derechos Civiles de 1964, enmendada, el Título IX de las Enmiendas Educativas de 1972, la Ley de Discriminación por Edad de 1975, enmendada, y la Sección 504 de la Ley de Rehabilitación de 1973, enmendada.

El ISD de Coppell tomará medidas para garantizar que la falta de conocimientos del idioma inglés no sea un impedimento en la admisión y la participación en todos los programas educativos y vocacionales

Para obtener información sobre sus derechos o procedimientos de quejas, contacte al Coordinador del Título IX, ubicado en 200 S. Denton Tap Rd.; Coppell, Texas 75019, a través del teléfono 214-496-6000; o a la Coordinadora de la Sección 504, ubicada en 268 Southwestern Blvd; Coppell, Texas 75019, a través del teléfono 214-496-6938.