CareerCl PATHWAYS TO COLLEGE & CAREER Health Science	usters ™ READINESS			te Approved Courses for Health Science Programs
	Founda	ational CTE Courses		
Career Exploration (22151 [^]) Employ	vability (22152 [^]) Entrepreneurs	hip (12053 [^]) Foundations of Technol	ogy (10004^) L	eadership & Service (22101^)
	C	luster Courses		
Health Science Careers I – Exploration (140	001 [^]) Health Science Careers II	I - Engagement (14002^) Medical Te	erminology (14154	A) MS PLTW Biomed (03071)
	Pa	thway Courses		
Therapeutic Services Pathway	Diagnostic Services Pathway	Health Informatics Pathway	Support Services Pathway	Biotechnology Research & Development Pathway
Gateway to Certified Nursing Assistant (14051) Introduction to Emergency Medical Services (14055) Introduction to Sports Medicine (14062^)	Introduction to Medical Diagnostics (14102^)	Introduction to Pharmacy Technician (14152) Introduction to Health Informatics (14157)		
PLTW Biomedical Sciences:	PLTW Biomedical Sciences:	PLTW Biomedical Sciences:		PLTW Biomedical Sciences:
PLTW: Human Body Systems (03067)	PLTW: Medical Intervention (03068)	PLTW: Human Body Systems (03067)		PLTW: Biomedical Science (03066)
	Dua	I Credit Courses		
Visit <u>https://sdmylife.com/ir</u>	mages/Approved-CTE-Dual-Cred	it.pdf for a full list of dual credit course	s in the Health Sc	ience Career Cluster.
	Supp	orting Academic Courses		
Biology (03051^	Anatomy & Physiology (03053^)	(03052) AP Biology (03056^) Anatomy (03054) Physiology tone CTE Courses	AP Chemistry (0 7 (03055)	03106^)
Entrepreneurship Experience (80026)	V		Learning (22104)	Youth Internships (80018^)



Gateway to Certified Nursing Assistant

Health Science
14051
None
1.0
Cluster course – Gateway to Certified Nursing Assistant – other
pathway courses in the Therapeutic Services pathway or capstone
experience
Future Health Professionals (HOSA), Skills USA
Mentoring, Job Shadowing, Internship, Workplace Tours,
Certified Nursing Assistant
https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Health Science Cluster Endorsement; Therapeutic & Support
Services Pathway Endorsement; *Health Science Education.
State and National Future Health Professionals (HOSA) Conference
(Competitive Events), State and National Skills USA Conference,
Certified Nursing Assistant Candidate Handbook, Omnibus Budget
Reconciliation Act, South Dakota Board of Nursing, South Dakota
Healthcare Association.

Important: In order for students to be able to sit for the CLNA Exam after this course it is highly encouraged that districts and teachers work with their local healthcare industry partners and the SD Board of Nursing to ensure that all criteria for eligibility are met. A licensed nurse will need to be involved in teaching this course in order to assure meeting industry certification requirements.

Course Description

Gateway to Certified Nursing Assistant is designed to empower high school students to take charge of and set a course for their future. It will prepare them to graduate with marketable skills and a real-world work connection. Students will be informed of the roles of the Certified Nursing Assistant focusing on direct patient care. After completing this portion for the Certified Nursing Assistant course, a student would need only to pass the state examinations in order to become a Certified Nursing Assistant. Clinical hours are required to meet certification requirements.

Program of Study Application

Gateway to Certified Nursing Assistant is the first pathway course in the Health Science career cluster, Therapeutic Services pathway. The course would follow participation in one or more cluster courses. Completion of Gateway to Certified Nursing Assistant would prepare a student to participate in further pathway courses in the Therapeutic Services pathway or a capstone experience.

CNA 1: Discuss the Certified Nursing Assistant (CNA) certification process and roles of the CNA in the healthcare environment.

Webb Level	Sub-indicator
One	CNA 1.1 Discuss laws and regulations that govern the work and certification of
Recall	the nurse assistants.
One	CNA 1.2 Identify the job duties and requirements of a nurse assistant.
Recall	

CNA 2: Identify and implement principles related to infection control and basic safety/emergency situations.

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Webb Level	Sub-indicator
Two	CNA 2.1 Demonstrate Certified Nursing Assistant's role in infection control
Skill/Concept	procedures in reference to Centers for Disease Control, Occupational Safety
	Health Administration, and National Institute of Health.
Two	CNA 2.2 Discuss and demonstrate safety/emergency protocols and procedures
Skill/Concept	within the healthcare environment

CNA 3: Measure and record patient/resident's health-related vital data/statistics.

Webb Level	Sub-indicator
Two	CNA 3.1 Collect and document baseline information, including vital signs, height
Skill/Concept	and weight.
Two	CNA 3.2 Identify normal ranges for vital signs, and list factors which can affect
Skill/Concept	vital signs.

CNA 4: Understand patient/resident's environment, basic human needs, and the importance of hygiene.

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Webb Level	Sub-indicator
Two Skill/Concept	CNA 4.1 Identify the importance of basic physical human needs of the patient/resident.
Two Skill/Concept	CNA 4.2 Identify the importance of the patient/resident's psychosocial needs.

CNA 5: Understand care involving cognitive impairment, mental illness, and death and dying.

Webb Level	Sub-indicator
Two	CNA 5.1 Identify effective strategies when caring for cognitively altered and
Skill/Concept	mentally ill patients.
Two	CNA 5.2 Summarize the basic needs and care during patient/resident's death and
Skill/Concept	grieving process.



Health Science Careers I - Exploration

Career Cluster	Health Science
Course Code	14001
Prerequisite(s)	None
Credit	1.0
Program of Study and	Foundation Course – Health Science Careers I – Health Science
Sequence	Careers II or Medical Terminology – Pathway Course
Student Organization	Future Health Professionals (HOSA), Skills USA
Coordinating Work-	Job shadowing, mentoring, service learning, workplace tours
Based Learning	
Industry Certifications	National Career Readiness Certificate (NCRC)
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Cluster Endorsement; *Health Science Education
Resources	State and National Future Health Professionals, Conference, State
	and National Skills USA Conference

Course Description

Health Science Careers I explores the current interprofessional education (IPE) teamwork approach in health science and career options in an ever-expanding healthcare environment. Students in the course will evaluate unique abilities and explore personal career aspirations. In addition, the student will be exposed to legal, ethical, and safety implications inherent to providing high quality patient care.

Program of Study Application

Health Science Careers I is the first cluster course in the Health Science career cluster. Completion of Health Science Careers I. Exploration prepares a student to participate in Health Science Careers II or Medical Terminology and then pathway courses in any of the Health Science pathways: Biotech Research and Development, Therapeutic Services, Health Informatics, Diagnostics, or Support Services.

Webb Level	Sub-indicator
Two	HSI 1.1 Differentiate between private and public/government healthcare settings
Skill/Concept	(managed care).
Two	HSI 1.2 Collaborate and communicate effectively with colleagues,
Skill/Concept	patients/residents, and/or family members.
Three	HSI 1.3 Identify positive and negative personal traits in a member of the
Strategic Thinking	healthcare setting.

HSI 1: Understand the healthcare setting networks and roles and responsibilities.

HSI 2: Identify health science career pathways.

Webb Level	Sub-indicator
Тwo	HSI 2.1 Identify and compare health science career pathways.
Skill/Concept	
One	HSI 2.2 Demonstrate knowledge of levels of education and credentialing
Recall	requirements for a variety of health science careers of interest.
One	HSI 2.3 Explore and demonstrate knowledge of employment opportunities,
Recall	workplace environments, and career growth potential.

HSI 3: Examine legal/ethical responsibilities and limitations of the healthcare worker.

Webb Level	Sub-indicator
Three	HSI 3.1 Understand legal/ethical issues, religious and cultural diversity and their
Strategic Thinking	impacts on health care.
Two	HSI 3.2 Explore scope of practice state-specific requirements and a variety of
Skill/Concept	professional standards including the American Medical Association, American
	Nurse Association, American Dental Association.
Three	HSI 3.3 Examine the implications of Health Insurance Portability and
Strategic Thinking	Accountability Act (HIPAA) for healthcare professionals.
Four	HSI 3.4 Analyze Patient/Residents' Bill of Rights and advanced directives.
Extended Thinking	

HSI 4: Understand and demonstrate safety practices in the healthcare environment.

Webb Level	Sub-indicator
Four	HSI 4.1 Apply principles of body mechanics and ergonomics.
Extended Thinking	
Two	HSI 4.2 Identify common safety hazards in the healthcare environment including
Skill/Concept	patient/resident, community, and healthcare worker settings.



Health Science Careers II: Engagement

Career Cluster	Health Science
Course Code	14051
Prerequisite(s)	Health Science Careers I: Exploration
Credit	1.0
Program of Study and	Foundation Course – Health Science Careers I – Health Science
Sequence	Careers II – Medical Terminology or Pathway Course – Capstone
	Experience
Student Organization	Future Health Professionals (HOSA), Skills USA
Coordinating Work-	Workplace tours, job shadowing, mentoring, service learning,
Based Learning	internship
Industry Certifications	First Aid, Cardiopulmonary Resuscitation (CPR), Automated External
	Defibrillator (AED), Certified Nurse Assistant (CNA).
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Cluster Endorsement; *Health Science Education
Resources	State and National Future Health Professionals (HOSA) Conference
	(Competitive events), State and National Skills USA Conference,
	American Red Cross, and American Heart Association.

Course Description

Health Science Careers II: Engagement will help a student discover and develop marketable and real-world skills that are essential to all health care workers. This course will cover real world skills such as infection control, disease, diagnosis, treatment, hands on skills, and documentation.

Program of Study Application

Health Science Careers II: Engagement is the second cluster course in the Health Science career cluster. Completion of Health Science Careers II: Engagement prepares a student to participate in Medical Terminology and/or a pathway courses in any of the Health Science pathways: Biotech Research and Development, Therapeutic Services, Health Informatics, Diagnostics or Support Services.

hisz 1. identify and apply principles of infection control.	
Webb Level	Sub-indicator
Three	HS2 1.1 Understand and Investigate the chain of infection.
Strategic Thinking	
Four	HS2 1.2 Apply the prevention of pathogen transmission.
Extended Thinking	

HS2 1: Identify and apply principles of infection control.

HS2 2: Discuss disease, diagnosis, and treatment.

Webb Level	Sub-indicator
Three	HS2 2.1 Differentiate disease concept with reference to Centers for Disease
Strategic Thinking	Control and National Institute of Health.
Three	HS2 2.2 Evaluate and assess patient/residents' health.
Strategic Thinking	
Two	HS2 2.3 Examine current treatment modalities for conditions including but not
Skill/Concept	limited to obesity, heart disease, cancer, and respiratory.

HS2 3: Demonstrate hands-on patient/residents' care skills.

Webb Level	Sub-indicator
Тwo	HS2 3.1 Apply procedures for monitoring, measuring, and recording vital signs.
Skill/Concept	
Тwo	HS2 3.2 Apply First Aid/Cardiopulmonary Resuscitation (CPR), and Automated
Skill/Concept	External Defibrillator (AED)
Four	HS2 3.3 Demonstrate knowledge of direct patient/residents' care skills.
Extended Thinking	

HS2 4: Demonstrate documentation standards and findings.

Webb Level	Sub-indicator
Three	HS2 4.1 Demonstrate use of technological documentation standards by entering
Strategic Thinking	data on the electronic medical record or paper.
Three	HS2 4.2 Differentiate between subjective and objective healthcare data to
Strategic Thinking	communicate patient/residents' status.

HS2 5: Utilize medical mathematics skills needed in healthcare work.

Webb Level	Sub-indicator
Two	HS2 5.1 Apply mathematical computations related to healthcare procedures.
Skill/Concept	
Three	HS2 5.2 Analyze diagrams, charts, graphs and tables to interpret healthcare data.
Strategic Thinking	



Introduction to Pharmacy Technician

Career Cluster	Health Science
Course Code	14152
Prerequisite(s)	Currently enrolled in 12th grade
Credit	1.0
Program of Study and	Cluster course – Gateway to Certified Nursing Assistant – Pharmacy
Sequence	Technician – other pathway courses in the Therapeutic Services
	pathway or capstone experience
Student Organization	Future Health Professionals (HOSA), Skills USA
Coordinating Work-	Work-Based Learning: Job Shadowing and Internship
Based Learning	
Industry Certifications	Certified Pharmacy Technician (CPhT)
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	CTE certified with Health Science Endorsement
Resources	South Dakota Board of Pharmacy and local pharmacist.

Course Description

The Pharmacy Technician course prepares students to assist pharmacists. This includes learning about the roles and responsibilities of the Pharmacy Technician, safety measures, drug dosage calculations, and identification of various drugs and their effects on the human body. Students will also learn how to perform a wide range of duties in retail, hospital, and home care. The Pharmacy Technician course will equip the student to pass the national certification exam.

Program of Study Application

Pharmacy Technician is a pathway course in the Health Science career cluster, Therapeutic Services pathway. The course would follow participation in one or more cluster courses and/or Gateway to Certified Nursing Assistant. Participation in Pharmacy Technician would prepare a student to participate in further pathway courses in the Therapeutic Services pathway or a capstone experience.

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Webb Level	Sub-indicator
One	PhT 1.1 Understand the roles and responsibilities of a pharmacy technician.
Recall	
Two	PhT 1.2 Interpret the laws and regulations involved in dispensing medication
Skill/Concept	including controlled substances.
Two	PhT 1.3 Apply the requirements for dispensing medication in accordance with
Skill/Concept	Federal and South Dakota law.
One	PhT 1.4 List the various types of reimbursement for prescription coverage.
Recall	

PhT 1: Understand the roles and responsibilities of the Pharmacy Technician and governing laws.

PhT 2: Understand safety measures as they pertain to preparing prescriptions and maintaining inventory.

mventory.	
Webb Level	Sub-indicator
One	PhT 2.1 Identify the steps involved in preparing and processing prescriptions.
Recall	
Two	PhT 2.2 Apply safety measures to prevent prescription errors and recognize the
Skill/Concept	importance of reporting errors.
One	PhT 2.3 Identify the process of maintaining pharmacy inventory.
Recall	

PhT 3: Understand drug dosage calculations and preparation of prescriptions.

Webb Level	Sub-indicator
Two	PhT 3.1 Solve dimensional math problems.
Skill/Concept	
Тwo	PhT 3.2 Convert between metric and apothecary measurements.
Skill/Concept	
One	PhT 3.3 Calculate dosage.
Recall	
One	PhT 3.4 Identify characteristics of dosage forms.
Recall	
One	PhT 3.5 Identify common terminology and abbreviations related to pharmacy.
Recall	

Webb Level	Sub-indicator
One	PhT 4.1 Define therapeutic effects of medications.
Recall	
One	PhT 4.2 Recognize common medications by brand and generic names.
Recall	
One	PhT 4.3 Identify the most common adverse effects of drugs.
Recall	
One	PhT 4.4 Identify common drug interactions of drugs.
Recall	
One	PhT 4.5 Identify monitoring parameters or labs for drug therapy.
Recall	

PhT 4: Identify various drugs and their effects on the human body.



Introduction to Emergency Medical Services

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Career Cluster	Health Science
Course Code	14055
Prerequisite(s)	Medical Terminology recommended
Credit	1.0
Program of Study and	Cluster course – Introduction to Emergency Medical Services – other
Sequence	pathway courses in the Therapeutic Services pathway or capstone
	experience
Student Organization	Future Health Professionals (HOSA), Skills USA
Coordinating Work-	Workplace tours, job shadowing, mentoring, service learning,
Based Learning	internship
Industry Certifications	First Aid/Cardiopulmonary Resuscitation (CPR)/Automated External
	Defibrillator (AED)/First Aid through American Red Cross or
	American Heart Association as appropriate
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Cluster Endorsement; Therapeutic & Support
	Services Pathway Endorsement; * Health Science Education
Resources	American Red Cross: www.redcross.org, American Heart Association
	www.heart.org

Important: In order for students to be able to sit for the EMT Exam after this course it is highly encouraged that districts and teachers work with their local healthcare industry partners and the SD Department of Health to ensure that all criteria for eligibility are met. Licensed personnel will need to be involved in teaching this course in order to assure meeting industry certification requirements.

Course Description

Introduction to Emergency Medical Services is designed to expose students to the various career opportunities in the Emergency Medical Services field. Emergency care services are necessary for the safety of the community. A network of services are coordinated to provide aid and medical assistance from primary response to definitive care, involving personnel trained in the rescue, stabilization, transportation, and advanced treatment of traumatic or medical emergencies. Potential career opportunities may include emergency medical dispatch, first medical responder, ambulance personnel, medium and heavy rescue equipment, and paramedic units. Upon completion of this course, students will be trained in First Aid, Cardiopulmonary Resuscitation (CPR) and Automatic External Defibrillator (AED).

Program of Study Application

Introduction to Emergency Medical Services is a pathway course in the Health Science career cluster, Therapeutic Services pathway. The course would follow participation in one or more cluster courses and/or Gateway to Certified Nursing Assistant. Introduction to Emergency Medical Services would prepare a student to participate in further pathway courses in the Therapeutic Services pathway or a capstone experience.

EMS 1: Explore roles, responsibilities, and professionalism of Emergency Medical Services (EMS)
personnel.

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Webb Level	Sub-indicator
Тwo	EMS 1.1 Distinguish differences among careers within EMS and explain in detail
Skill/Concept	the education level, credentialing/licensure requirements.
Three	EMS 1.2 Demonstrate emotional support to patient, bystanders, or other
Strategic Thinking	responders.
Three	EMS 1.3 Investigate medical and legal standards in correlation with the Health
Strategic Thinking	Insurance Portability & Accountability Act (HIPAA).
Four	EMS 1.4 Apply concepts related to professional attitude and appearance.
Extended Thinking	

EMS 2: Demonstrate skills in first aid, cardiopulmonary resuscitation (CPR) and automated external defibrillation (AED) certification standards set by the American Heart Association or the American Red Cross.

Webb Level	Sub-indicator
Two	EMS 2.1 Understand how to perform First Aid for Students and/or CPR for
Skill/Concept	Students and/or how to use an AED.

EMS 3: Determine the necessity of emergency medical care for a variety of patients with varied medical conditions.

Webb Level	Sub-indicator
Two	EMS 3.1 Identify emergency medical treatment protocol.
Skill/Concept	





Introduction to Health Informatics & IT

V Learning. Leadership. Service.	
Career Cluster	Health Science
Course Code	14157
Prerequisite(s)	Recommend taking Medical Terminology first
Credit	1
Program of Study and	Cluster Course, Introduction to Health Informatics, Human Body
Sequence	Systems or Capstone Course
Student Organization	Future Health Professionals (HOSA), SkillsUSA
Coordinating Work-	Guest speakers, project-based learning, community outreach,
Based Learning	internships, field trips, and industry partnerships
Industry Certifications	National Career Readiness Certificate (NCRC)
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Cluster Endorsement; Information Technology Cluster
	Endorsement; Networking Systems & Information Support Pathway
	Endorsement
Resources	

Course Description

Health Informatics & IT is a multidisciplinary approach to automated collection, using and sharing of personal and epidemiologic health information. The Health Informatics & IT course will introduce students to the necessary skills and knowledge to work in places such as medical groups, hospitals, clinics, health insurance organizations, research, hardware and software vendors, internet companies, and many others.

Program of Study Application

Introduction to Health Informatics & IT is the first pathway course in the Health Science career cluster, Health Informatics pathway. The course would follow participation in one or more cluster courses. Completion of Introduction to Health Informatics would prepare a student to participate in further pathway courses in the Health Informatics pathway or a capstone experience.

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Webb Level	Sub-indicator
Two	HI 1.1 Apply accuracy, effectiveness, and timeliness to the transfer of
Skill/Concept	information.
Two	HI 1.2 Summarize how legal and regulatory requirements apply to the transfer of
Skill/Concept	information.
Two	HI 1.3 Distinguish who in the organization needs information and when they
Skill/Concept	need it.
Three	HI 1.4 Organize recorded information and other documents within the Health
Strategic Thinking	Insurance Portability and Accountability Act (HIPAA) protocols to ensure
	confidentiality and privacy.
One	HI 1.5 Communicate information ensuring confidentiality of content is
Recall	maintained.

HI 1: Communicate health information accurately and within legal and regulatory guidelines, upholding the strictest standards of confidentiality.

HI 2: Describe the content and diverse uses of health information.

Webb Level	Sub-indicator
Two	HI 2.1 Interpret and extract information from medical records and documents.
Skill/Concept	
Two	HI 2.2 Collect appropriate, accurate information including proper codes to record
Skill/Concept	charges for reimbursement.
One	HI 2.3 Identify and apply accurate medical terminology.
Recall	
Three	HI 2.4 Investigate the need for requesting further clarification when
Strategic Thinking	transcribing/transferring information that may be unclear.
Four	HI 2.5 Analyze and apply information for regulatory and legal purposes.
Extended Thinking	

HI 3: Demonstrate the use of systems used to capture, retrieve, and maintain confidential health information, including electronic health records, from internal and external sources.

Webb Level	Sub-indicator
Three Strategie Thinking	HI 3.1 Formulate and accurately document required information.
Strategic Thinking	
Two Skill/Concept	HI 3.2 Organize information that has been collected.
Three	HI 3.3 Differentiate the purposes and audiences for whom information is
Strategic Thinking	collected.
Two	HI 3.4 Prepare accurate documentation for various audiences within legal and
Skill/Concept	regulatory requirements, as requested.
One	HI 3.5 Disseminate information to various audiences using systems and
Recall	guidelines within the facility.
Two	HI 3.6 Organize and maintain a records storage system within legal requirements
Skill/Concept	and protocols.



Introduction to Medical Diagnostics

Career Cluster	Health Science
Course Code	14102
Prerequisite(s)	None
Credit	1.0
Program of Study and	Cluster course – Introduction to Medical Diagnostics – Medical
Sequence	Intervention or capstone experience
Student Organization	Future Health Professionals (HOSA), Skills USA
Coordinating Work-	Guest speakers, project-based learning, community outreach,
Based Learning	internships, job shadowing, field trips, and industry partnerships
Industry Certifications	National Career Readiness Certificate (NCRC)
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Cluster Endorsement; Diagnostic Services Pathway
	Endorsement; *Health Science Education
Resources	Local healthcare facility

Course Description

Diagnostic services create a picture of the health status of a patient at a single point in time. Introduction to Medical Diagnostics will address tests and evaluations that aid in the detection, diagnosis, and treatment of disease, injury, or other physical conditions.

Program of Study Application

Introduction to Medical Diagnostics is the first pathway course in the Health Science career cluster, Diagnostics pathway. The course would follow participation in one or more cluster courses. Completion of Introduction to Health Informatics would prepare a student to participate in Medical Intervention or a capstone experience.



Webb Level	Sub-indicator
Two	IMD 1.1 Compare and contrast scope of practice of diagnostic careers.
Skill/Concept	
One	IMD 1.2 Identify educational requirements for specific careers.
Recall	
One	IMD 1.3 Identify workforce needs and compensation.
Recall	
One	IMD 1.4 Identify licensure, registration, or certification requirements.
Recall	

IMD 1: Investigate Diagnostic Pathway careers.

IMD 2: Recognize skills necessary to work in any healthcare facility.

Webb Level	Sub-indicator
Two	IMD 2.1 Summarize the Health Insurance Portability and Accountability Act
Skill/Concept	(HIPAA) and how it provides confidentiality for healthcare information.
Two	IMD 2.2 Demonstrate infection control standard precautions.
Skill/Concept	
Two	IMD 2.3 Apply and demonstrate professional appearance.
Skill/Concept	

IMD 3: Understand the dynamics of a healthcare diagnostic workplace.

Webb Level	Sub-indicator
One	IMD 3.1 Identify workplace equipment, protocol, and procedures.
Recall	
Two	IMD 3.2 Demonstrate professional communication and teamwork.
Skill/Concept	
Four	IMD 3.3 Apply professional level patient care and interaction scenarios.
Extended Thinking	
Q	



Introduction to Sports Medicine

Career Cluster	Health Science
Course Code	14062
Prerequisite(s)	Recommended: Anatomy and Physiology
Credit	1.0
Program of Study and	Cluster course – Introduction to Sports Medicine – other pathway
Sequence	courses in the Therapeutic Services pathway or capstone experience
Student Organization	Future Health Professionals (HOSA); Family, Career and Community
	Leaders of America (FCCLA), or Skills USA
Coordinating Work-	Workplace tours, job shadowing, mentoring, internship
Based Learning	
Industry Certifications	First Aid/Cardiopulmonary Resuscitation (CPR)/Automated External
	Defibrillator (AED)/First Aid
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Cluster Endorsement; *Health Science Education;
	Therapeutic and Support Services Pathway Endorsement
Resources	American College of Sports Medicine http://acsm.org/about-acsm;
	My Fitness Pal www.myfitnesspal.com; Choose MyPlate
	www.myplate.gov; Family, Career and Community Leaders of
	America (FCCLA) Sports Nutrition STAR event; HOSA and SkillsUSA,
	AHA, Red Cross

Course Description

Introduction to Sports Medicine is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, exercise physiology, kinesiology, nutrition and other sports medicine related fields. This class includes both classroom work and hands-on application in order to provide students with an avenue to explore these fields. Through these connections students will understand the importance that exercise, nutrition, treatment modalities, and rehabilitation play in athletic health. Students will study basic anatomy and the psychological impact of athletic injuries along with assessment and treatment techniques as they apply to athletic injuries.

Program of Study Application

Introduction to Sports Medicine is a pathway course in the Health Science career cluster, Therapeutic Services pathway. The course would follow participation in one or more cluster courses. Introduction to Sports Medicine would prepare a student to participate in further pathway courses in the Therapeutic Services pathway or a capstone experience.

Webb Level	Sub-indicator
Тwo	ISM 1.1 Distinguish differences among careers within sports medicine and
Skill/Concept	explain in detail the education level, credentialing/licensure requirements.
Тwo	ISM 1.2 Interpret medical terms and abbreviations to communicate information.
Skill/Concept	
One	ISM 1.3 Identify basic structures and functions of human body systems.
Recall	
Four	ISM 1.4 Analyze basic concepts of kinesiology in relation to athletic performance.
Extended Thinking	

ISM 1: Identify the fundamental aspects of medical terminology, the human body systems, kinesiology and careers related to sports medicine.

ISM 2: Understand injury prevention principles and performance enhancement philosophies

Webb Level	Sub-indicator
Three	ISM 2.1 Develop a nutrition and hydration plan for an athlete that addresses
Strategic Planning	personal healthy behaviors.
Two	ISM 2.2 Describe injury prevention strategies.
Skill/Concept	
Two	ISM 2.3 Explore and identify safe training practices in sports management.
Skill/Concept	
Three	ISM 2.4 Compare and contrast performance enhancement philosophies.
Strategic Thinking	

ISM 3: Explore and understand common sports injuries, injury management and treatment techniques.

Webb Level	Sub-indicator
Three	ISM 3.1 Recognize and explain common injuries and conditions that impact
Strategic Thinking	athletic performance.
Three	ISM 3.2 Apprise common sports injuries to differentiate treatment modalities.
Strategic Thinking	
Four	ISM 3.3 Perform proper treatment techniques of common sports injuries through
Extended Thinking	hands-on application.

ISM 4: Explore the psychological impact of injury and the healing process on an individual.

Webb Level	Sub-indicator
One	ISM 4.1 Describe basic principles of sports psychology.
Recall	
Three	ISM 4.2 Explain possible adaptations that can be made to exercise programs to
Strategic Thinking	account for different clients' needs.

Medical Terminology



Career Cluster	Health Science
Course Code	14154
Prerequisite(s)	None
Credit	1.0
Program of Study and	Foundation Course – Health Science Careers I: Exploration – Health
Sequence	Science Careers II: Engagement or Medical Terminology – Pathway
	Course
Student Organization	Future Health Professionals (HOSA), Skills USA
Coordinating Work-	Mentoring, workplace tours, service learning
Based Learning	
Industry Certifications	National Career Readiness Certificate (NCRC)
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Health Science Career Cluster Endorsement; *Health Science
	Education
Resources	State and National Future Health Professionals (HOSA) Conference
	(Competitive Events), State and National Skills USA Conference

Course Description

Communication in the ever-expanding health care industry is a language unto itself. Medical Terminology consists of learning medically precise pronunciations, word clues, and terminology specific to human anatomy, physiology, disease, diagnosis and treatment. This medically integrated knowledge will be valuable for all levels of health care providers and members of the health care team. Medical Terminology is recommended for students in all health science pathways.

Program of Study Application

Medical Terminology is a second cluster course in the Health Science career cluster. Completion of Medical Terminology prepares a student to participate in Health Science Careers II and/or pathway courses in any of the Health Science pathways: Biotech Research and Development, Therapeutic Services, Health Informatics, Diagnostics or Support Services.

Webb Level	Sub-indicator
One	MT 1.1 Decipher and create medical terms using word roots, prefixes, and
Recall	suffixes.
One	MT 1.2 Demonstrate the importance, and practice the correct spelling, of
Recall	medical terminology.
Two	MT 1.3 Communicate patient/residents' care information utilizing medical
Skill/Concept	terminology.

MT 1: Build and interpret medical terminology.

MT 2: Demonstrate use of medical terminology in relation to the human body.

Webb Level	Sub-indicator
Two	MT 2.1 Utilize medical terminology associated with the human body and medical
Skill/Concept	healthcare treatment.
Two	MT 2.2 Understand body planes, directional terms, quadrants, and cavities using
Skill/Concept	medical terminology.

MT 3: Utilize medical terminology to identify and interpret signs and symptoms of diseases and disorders.

Webb Level	Sub-indicator
Two Skill/Concept	MT 3.1 Utilize medical terminology to compare and contrast symptoms of diseases and disorders.
Two Skill/Concept	MT 3.2 Utilize medical terminology pertaining to diagnosis and treatment of diseases and disorders in patients/residents.

